



▶ Industrial Controls

CATALOG 803 NORTH AMERICAN EDITION

OUR COMMITMENT MAKES THE DIFFERENCE ▶

BACO[®]
CONTROLS

BACO fully committed into the future

A key player on the market for control and signalling units, cam switches and disconnect switches, BACO is recognized for its professional expertise and compliance with safety standards. BACO is committed to a quality charter based on the quality and reliability of its numerous and flexible solutions.

CONTROL AND SIGNALING UNITS

► A wide range

- Pushbuttons, Selector Switches, Emergency Stops and Pilot Lights
- Excellent modularity for a large choice of combinations with a minimum number of items
- Customized products to meet the most specific needs



CAM SWITCHES

► A reference on the market

- A worldwide reputation of know-how for more than 50 years
- A range from 10 to 63 A (panel mount or enclosed)
- More than 50,000 different electrical diagrams available
- Numerous specific functions and special engravings



DISCONNECT SWITCHES

► Great flexibility in use

- Compactness
- Flexible combinations for customized applications
- Reversible terminal blocks for front or rear mounting saving valuable time during installation



THE BACO QUALITY COMMITMENT

BACO products have a 10-year guarantee and are exceptionally reliable, that is why they are ideal for integration into systems that do not tolerate any failure (military, aeronautical, space exploration, medical research equipment, etc.). Moreover, BACO product ranges offer ingenious and reliable solutions that are fast and easy to implement.

That's why BACO is now providing a 10-year guarantee on all products. This guarantee strengthens the assurance of having a solid and committed brand by your side. With BACO, you can be sure that you have made the right choice.

General Terms and Conditions:

Please visit www.bacocontrols.com for our current terms and conditions.

This publication is based on information available at the time of printing. Specifications, dimensions and other technical data subject to change without notice and without obligation.

Contents

8 ► CONTROL AND SIGNALING UNITS Ø 22

Complete Devices - Non-illuminated heads Ø 22	12
Complete Devices - Illuminated heads Ø 22	21
Non-illuminated heads Ø 22	29
Illuminated heads Ø 22	48
Block sub-assemblies.....	57
Clips.....	68
Blocks.....	69
Legend Plates.....	76
Accessories.....	86
Din-Rail Assemblies.....	92
Control Stations	93
Empty Enclosures.....	100
Technical Specifications.....	106

120 ► CONTROL AND SIGNALING UNITS Ø 30

Complete Devices - Non-illuminated heads Ø 30	121
Complete Devices - Illuminated heads Ø 30	127
Non illuminated heads Ø 30	133
Illuminated heads Ø 30	141
Block sub-assemblies.....	57
Clips.....	68
Blocks.....	69
Legend Plates.....	145
Accessories.....	148
Control Stations	151
Empty Enclosures.....	153
Technical Specifications.....	154

157 ► DISCONNECT SWITCHES

25A / 32A.....	158
50A / 63A.....	172
80A / 100A.....	183
Technical Specifications.....	196

201 ► CAM SWITCHES

PR ONE CAM Switches.....	201
Mini Cam Switches.....	208
Single Hole Mounting Ø 22 (PR12).....	210
On/Off.....	212
Main Switches.....	214
Changeover without Off.....	216
Changeover with Off.....	218
Three Way with Off.....	220
Motor Switches.....	222
Ammeter / Voltmeter Switches.....	230
Binary Code Switches.....	233
Technical Specifications.....	234

CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
CONTROL AND SIGNALLING UNITS		333E10.....	58	333EAWM20.....	62	333EDAWL01.....	67	333ERAWH10.....	64	33EAYH.....	71
455.....	89	333E11.....	58	333EAYH.....	61	333EDAWL10.....	66	333ERAWH11.....	65	33EAYL.....	71
1424A.....	89	333E12.....	58	333EAYH01.....	62	333EDAWL11.....	67	333ERAWL.....	64	33EAYL4.....	71
331E.....	68	333E20.....	58	333EAYH10.....	61	333EDAWM.....	66	333ERAWL01.....	65	33EAYM.....	71
331E01.....	58	333E21.....	58	333EAYH11.....	63	333EDAWM01.....	67	333ERAWL10.....	64	33EFH.....	75
331E01.....	58	333E30.....	58	333EAYH20.....	62	333EDAWM10.....	66	333ERAWL11.....	65	33EFM.....	75
331E10.....	58	333EABH01.....	62	333EAYL.....	61	333EDAWM11.....	67	333ERAWM.....	64	33EHC.....	74
331E10.....	58	333EABH10.....	61	333EAYL01.....	62	333EDAYH.....	66	333ERAWM01.....	65	33ELC.....	74
331EABH.....	61	333EABH11.....	63	333EAYL10.....	61	333EDAYH01.....	67	333ERAWM10.....	64	33ET.....	74
331EABL.....	61	333EABH20.....	62	333EAYL11.....	63	333EDAYH10.....	66	333ERAWM11.....	65	33ETT.....	74
331EABM.....	61	333EABL.....	61	333EAYL20.....	62	333EDAYH11.....	67	333ERAYH.....	64	33EX.....	75
331EAGH.....	61	333EABL01.....	62	333EAYM.....	61	333EDAYL.....	66	333ERAYH01.....	65	33EY.....	75
331EAGL.....	61	333EABL10.....	61	333EAYM01.....	62	333EDAYL01.....	67	333ERAYH10.....	64	33P01.....	70
331EAGM.....	61	333EABL11.....	63	333EAYM10.....	61	333EDAYL10.....	66	333ERAYH11.....	65	33P01Y7.....	70
331EARH.....	61	333EABL20.....	62	333EAYM11.....	63	333EDAYL11.....	67	333ERAYL.....	64	33P10.....	70
331EARL.....	61	333EABM.....	61	333EAYM20.....	62	333EDAYM.....	66	333ERAYL01.....	65	33P10Y7.....	70
331EARM.....	61	333EABM01.....	62	333ED01.....	60	333EDAYM01.....	67	333ERAYL10.....	64	33R01.....	69
331EAWH.....	61	333EABM10.....	61	333ED02.....	60	333EDAYM10.....	66	333ERAYL11.....	65	33R10.....	69
331EAWL.....	61	333EABM11.....	63	333ED03.....	60	333EDAYM11.....	67	333ERAYM.....	64	33RABH.....	72
331EAWM.....	61	333EABM20.....	62	333ED10.....	60	333ER01.....	59	333ERAYM01.....	65	33RABL.....	72
331EAYH.....	61	333EAGH.....	61	333ED11.....	60	333ER02.....	59	333ERAYM10.....	64	33RABM.....	72
331EAYL.....	61	333EAGH01.....	62	333ED20.....	60	333ER03.....	59	333ERAYM11.....	65	33RAGH.....	72
331EAYM.....	61	333EAGH10.....	61	333ED30.....	60	333ER10.....	59	334E11.....	58	33RAGL.....	72
331ED01.....	60	333EAGH11.....	63	333EDABH.....	66	333ER11.....	59	334E22.....	58	33RAGM.....	72
331ED10.....	60	333EAGH20.....	62	333EDABH01.....	67	333ER20.....	59	335E.....	68	33RARH.....	72
331EDABH.....	66	333EAGL.....	61	333EDABH10.....	66	333ER30.....	59	33D01.....	69	33RARL.....	72
331EDABL.....	66	333EAGL01.....	62	333EDABH11.....	67	333ERABH.....	64	33D10.....	69	33RARM.....	72
331EDABM.....	66	333EAGL10.....	61	333EDABL.....	66	333ERABH01.....	65	33DABH.....	72	33RAWH.....	72
331EDAGH.....	66	333EAGL11.....	63	333EDABL01.....	67	333ERABH10.....	64	33DABL.....	72	33RAWL.....	72
331EDAGL.....	66	333EAGL20.....	62	333EDABL10.....	66	333ERABH11.....	65	33DABM.....	72	33RAWM.....	72
331EDAGM.....	66	333EAGM.....	61	333EDABL11.....	67	333ERABL.....	64	33DAGH.....	72	33RAYH.....	72
331EDARH.....	66	333EAGM01.....	62	333EDABM.....	66	333ERABL01.....	65	33DAGL.....	72	33RAYL.....	72
331EDARL.....	66	333EAGM10.....	61	333EDABM01.....	67	333ERABL10.....	64	33DAGM.....	72	33RAYM.....	72
331EDARM.....	66	333EAGM11.....	63	333EDABM10.....	66	333ERABL11.....	65	33DARH.....	72	33RFH.....	75
331EDAWH.....	66	333EAGM20.....	62	333EDABM11.....	67	333ERABM.....	64	33DARL.....	72	33RFM.....	75
331EDAWL.....	66	333EARH.....	61	333EDAGH.....	66	333ERABM01.....	65	33DARM.....	72	33S01.....	70
331EDAWM.....	66	333EARH01.....	62	333EDAGH01.....	67	333ERABM10.....	64	33DAWH.....	72	33S10.....	70
331EDAYH.....	66	333EARH10.....	61	333EDAGH10.....	66	333ERABM11.....	65	33DAWL.....	72	33SABH.....	73
331EDAYL.....	66	333EARH11.....	63	333EDAGH11.....	67	333ERAGH.....	64	33DAWM.....	72	33SABL.....	73
331EDAYM.....	66	333EARL.....	61	333EDAGL.....	66	333ERAGH01.....	65	33DAYH.....	72	33SABM.....	73
331ER01.....	59	333EARL01.....	62	333EDAGL10.....	66	333ERAGH10.....	64	33DAYL.....	72	33SAGH.....	73
331ER10.....	59	333EARL10.....	61	333EDAGL11.....	67	333ERAGH11.....	65	33DAYM.....	72	33SAGL.....	73
331ERABH.....	64	333EARL11.....	63	333EDAGM.....	66	333ERAGL.....	64	33E01.....	69	33SAGM.....	73
331ERABL.....	64	333EARL20.....	62	333EDAGM01.....	67	333ERAGL01.....	65	33E01C.....	69	33SARH.....	73
331ERABM.....	64	333EARM.....	61	333EDAGM10.....	66	333ERAGL10.....	64	33E01Y7.....	69	33SARL.....	73
331ERAGH.....	64	333EARM01.....	62	333EDAGM11.....	67	333ERAGL11.....	65	33E10.....	69	33SARM.....	73
331ERAGL.....	64	333EARM10.....	61	333EDARH.....	66	333ERAGM.....	64	33E10Y7.....	69	33SAWH.....	73
331ERAGM.....	64	333EARM11.....	63	333EDARH01.....	67	333ERAGM01.....	65	33E11.....	69	33SAWL.....	73
331ERARH.....	64	333EARM20.....	62	333EDARH10.....	66	333ERAGM10.....	64	33EABH.....	71	33SAWM.....	73
331ERARL.....	64	333EAWH.....	61	333EDARH11.....	67	333ERAGM11.....	65	33EABL.....	71	33SAYH.....	73
331ERARM.....	64	333EAWH01.....	62	333EDARL.....	66	333ERARH.....	64	33EABL4.....	71	33SAYL.....	73
331ERAWH.....	64	333EAWH10.....	61	333EDARL01.....	67	333ERARH01.....	65	33EABM.....	71	33SAYM.....	73
331ERAWL.....	64	333EAWH11.....	63	333EDARL10.....	66	333ERARH10.....	64	33EAGH.....	71	907150RED.....	140
331ERAWM.....	64	333EAWH20.....	62	333EDARL11.....	67	333ERARH11.....	65	33EAGL.....	71	BNT206.....	105
331ERAYH.....	64	333EAWL.....	61	333EDARM.....	66	333ERARL.....	64	33EAGL4.....	71	BNT210.....	105
331ERAYL.....	64	333EAWL01.....	62	333EDARM01.....	67	333ERARL01.....	65	33EAGM.....	71	BNT215.....	105
331ERAYM.....	64	333EAWL10.....	61	333EDARM10.....	66	333ERARL10.....	64	33EARH.....	71	BNT217.....	105
333E.....	68	333EAWL11.....	63	333EDARH01.....	67	333ERARL11.....	65	33EARL.....	71	BNT220.....	105
333E01.....	58	333EAWL20.....	62	333EDARH10.....	66	333ERARM.....	64	33EARL4.....	71	BNT223.....	105
333E02.....	58	333EAWM.....	61	333EDAWH.....	66	333ERARM01.....	65	33EARM.....	71	BNT225.....	105
333E03.....	58	333EAWM01.....	62	333EDAWH01.....	67	333ERARM10.....	64	33EAWH.....	71	BNT226.....	105
		333EAWM10.....	61	333EDAWHT1.....	67	333ERAWH.....	64	33EAWL.....	71	BNT227.....	105
		333EAWM11.....	63	333EDAWL.....	66	333ERAWH01.....	65	33EAWL4.....	71	BNT231.....	105
								33EAWM.....	71	BNT237.....	105

CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
BNT240.....	105	L21AC02.....	33	L21KA08.....	38	L21LD00.....	43	L21NE00.....	44	L22AM04A.....	30
BNT242.....	105	L21AC03.....	33	L21KB01.....	38	L21LF00.....	43	L21NJ00.....	44	L22AM05A.....	30
BNT243.....	105	L21AC04.....	33	L21KB02.....	38	L21LG00.....	43	L21NK00.....	44	L22AM06A.....	30
BNT253.....	105	L21AD01.....	33	L21KB03.....	38	L21LH00.....	43	L21NL00.....	44	L22AQ10.....	48
BNT254.....	105	L21AD01S.....	33	L21KB08.....	38	L21LK00.....	43	L21RP03.....	47	L22AQ20.....	48
BNT255.....	105	L21AD02.....	33	L21KC01.....	38	L21MA01.....	40	L21TA03.....	42	L22AQ40.....	48
BPA201.....	105	L21AD03.....	33	L21KC02.....	38	L21MA02.....	40	L21TB03.....	42	L22AQ50.....	48
BPA202.....	105	L21AD04.....	33	L21KC03.....	38	L21MA03.....	40	L21TF03.....	42	L22AQ60.....	48
BPA203.....	105	L21AD06.....	33	L21KC08.....	38	L21MA08.....	40	L21UA03.....	42	L22AW01.....	31
BPA206.....	105	L21AE01.....	33	L21KD01.....	38	L21MB01.....	40	L21UB03.....	42	L22AW02.....	31
BPA208.....	105	L21AE03.....	33	L21KD02.....	38	L21MB02.....	40	L21UC03.....	42	L22AW03.....	31
BPA301.....	153	L21AH00.....	48	L21KD03.....	38	L21MB03.....	40	L21UD03.....	42	L22AX01.....	31
BPA302.....	153	L21AH10.....	48	L21KD08.....	38	L21MB08.....	40	L21UK03.....	42	L22AX02.....	31
BPA303.....	153	L21AH20.....	48	L21KE01.....	38	L21MC01.....	40	L21VB03.....	46	L22AX03.....	31
BPA306.....	153	L21AH40.....	48	L21KE02.....	38	L21MC02.....	40	L22AA00.....	29	L22AX04.....	31
BPA308.....	153	L21AH50.....	48	L21KE03.....	38	L21MC03.....	40	L22AA01.....	29	L22AX05.....	31
BPP201.....	153	L21AH60.....	48	L21KE08.....	38	L21MC08.....	40	L22AA02.....	29	L22AX06.....	31
BPP202.....	153	L21AK10.....	49	L21KF01.....	38	L21MD01.....	40	L22AA03.....	29	L22AZ10.....	49
BPP203.....	153	L21AK20.....	49	L21KF02.....	38	L21MD02.....	40	L22AA04.....	29	L22AZ20.....	49
BPP204.....	153	L21AK40.....	49	L21KF03.....	38	L21MD03.....	40	L22AA05.....	29	L22AZ40.....	49
BPP210.....	153	L21AK50.....	49	L21KF08.....	38	L21MD08.....	40	L22AA06.....	29	L22AZ50.....	49
BPP301.....	153	L21AK60.....	49	L21KG10.....	53	L21ME10.....	54	L22AA81.....	29	L22AZ60.....	49
BPP302.....	153	L21AL10.....	50	L21KG20.....	53	L21ME20.....	54	L22AA82.....	29	L22CA01.....	34
BPP303.....	153	L21AL20.....	50	L21KG30.....	53	L21ME30.....	54	L22AA83.....	29	L22CA02.....	34
BPP304.....	153	L21AL40.....	50	L21KH10.....	53	L21MF10.....	54	L22AB01.....	31	L22CA03.....	34
BPP310.....	153	L21AL50.....	50	L21KH20.....	53	L21MF20.....	54	L22AB01B.....	31	L22CA04.....	34
L20SC10H.....	56	L21CA01.....	34	L21KH30.....	53	L21MF30.....	54	L22AB02.....	31	L22CA05.....	34
L20SC10L.....	56	L21CA02.....	34	L21KJ10.....	53	L21MG10.....	54	L22AB03.....	31	L22CA06.....	34
L20SC10M.....	56	L21CA03.....	34	L21KJ20.....	53	L21MG20.....	54	L22AB04.....	31	L22CB01.....	34
L20SC20H.....	56	L21CA04.....	34	L21KJ30.....	53	L21MG30.....	54	L22AB05.....	31	L22CB02.....	34
L20SC20L.....	56	L21CA05.....	34	L21KK10.....	53	L21MH10.....	54	L22AB06.....	31	L22CB03.....	34
L20SC20M.....	56	L21CA06.....	34	L21KK20.....	53	L21MH20.....	54	L22AC01.....	33	L22CB04.....	34
L20SC40H.....	56	L21CB01.....	34	L21KK30.....	53	L21MH30.....	54	L22AC02.....	33	L22CB05.....	34
L20SC40L.....	56	L21CB02.....	34	L21KL10.....	53	L21MJ10.....	54	L22AC03.....	33	L22CB06.....	34
L20SC40M.....	56	L21CB03.....	34	L21KL20.....	53	L21MJ20.....	54	L22AC04.....	33	L22CH10.....	51
L20SC50H.....	56	L21CB04.....	34	L21KL30.....	53	L21MJ30.....	54	L22AD01.....	33	L22CH20.....	51
L20SC50L.....	56	L21CB05.....	34	L21KM10.....	53	L21MK01.....	40	L22AD01S.....	33	L22CH40.....	51
L20SC50M.....	56	L21CB06.....	34	L21KM20.....	53	L21MK02.....	40	L22AD02.....	33	L22CH50.....	51
L20SC60H.....	56	L21CH10.....	51	L21KM30.....	53	L21MK03.....	40	L22AD03.....	33	L22CH60.....	51
L20SC60L.....	56	L21CH20.....	51	L21KP01.....	39	L21MK08.....	40	L22AD04.....	33	L22CK10.....	51
L20SC60M.....	56	L21CH40.....	51	L21KP02.....	39	L21ML30.....	55	L22AD06.....	33	L22CK20.....	51
L20SE10.....	55	L21CH50.....	51	L21KP03.....	39	L21MM30.....	55	L22AE01.....	33	L22CK40.....	51
L20SE20.....	55	L21CH60.....	51	L21KP08.....	39	L21MN30.....	55	L22AE03.....	33	L22CK50.....	51
L20SE40.....	55	L21CK10.....	51	L21KQ01.....	39	L21MP30.....	55	L22AH00.....	48	L22CK60.....	51
L20SE50.....	55	L21CK20.....	51	L21KQ02.....	39	L21MR01.....	41	L22AH10.....	48	L22DC01.....	34
L20SE60.....	55	L21CK40.....	51	L21KQ03.....	39	L21MR02.....	41	L22AH20.....	48	L22DD01.....	35
L21AA00.....	29	L21CK50.....	51	L21KR01.....	39	L21MR03.....	41	L22AH40.....	48	L22DD01C.....	35
L21AA01.....	29	L21CK60.....	51	L21KR02.....	39	L21MR08.....	41	L22AH50.....	48	L22DD01S.....	35
L21AA02.....	29	L21HA01.....	45	L21KR03.....	39	L21MS01.....	41	L22AH60.....	48	L22DD02.....	35
L21AA03.....	29	L21HA02.....	45	L21KS01.....	39	L21MS02.....	41	L22AK10.....	49	L22DD03.....	35
L21AA04.....	29	L21HA03.....	45	L21KS02.....	39	L21MS03.....	41	L22AK20.....	49	L22DD04.....	35
L21AA05.....	29	L21HA04.....	45	L21KS03.....	39	L21MS08.....	41	L22AK40.....	49	L22DL10.....	52
L21AA06.....	29	L21HA05.....	45	L21KT01.....	39	L21MT01.....	41	L22AK50.....	49	L22DM10.....	52
L21AA81.....	29	L21HA06.....	45	L21KT02.....	39	L21MT02.....	41	L22AK60.....	49	L22DM20.....	52
L21AA82.....	29	L21HA363949.....	45	L21KT03.....	39	L21MT03.....	41	L22AL10.....	50	L22DM40.....	52
L21AA83.....	29	L21HB01.....	45	L21KU01.....	39	L21MT08.....	41	L22AL20.....	50	L22DM50.....	52
L21AB01.....	31	L21HB02.....	45	L21KU02.....	39	L21MU01.....	41	L22AL40.....	50	L22DN10.....	53
L21AB01B.....	31	L21HB03.....	45	L21KU03.....	39	L21MU02.....	41	L22AL50.....	50	L22DQ01.....	36
L21AB02.....	31	L21HB04.....	45	L21KV30.....	54	L21MU03.....	41	L22AM01.....	30	L22DR01.....	36
L21AB03.....	31	L21HB05.....	45	L21KX30.....	54	L21MU08.....	41	L22AM01A.....	30	L22DU01.....	37
L21AB04.....	31	L21HB06.....	45	L21KY30.....	54	L21NA00.....	44	L22AM02.....	30	L22DU01A.....	37
L21AB05.....	31	L21KA01.....	38	L21LA00.....	43	L21NB00.....	44	L22AM02A.....	30	L22EC01.....	34
L21AB06.....	31	L21KA02.....	38	L21LB00.....	43	L21NC00.....	44	L22AM03.....	30	L22EC02.....	34
L21AC01.....	33	L21KA03.....	38	L21LC00.....	43	L21ND00.....	44	L22AM03A.....	30	L22EC03.....	34

CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
L22EC04.....	34	L22KJ30.....	53	L22MG30.....	54	L23CH10.....	49	LBX10110.....	94	LWA0204.....	87
L22ED01.....	35	L22KK10.....	53	L22MH10.....	54	L23CH20.....	49	LBX101910.....	95	LWA0205.....	87
L22ED01G.....	35	L22KK20.....	53	L22MH20.....	54	L23CH40.....	49	LBX101910S.....	95	LWA0209.....	89
L22ED01S.....	35	L22KK30.....	53	L22MH30.....	54	L23CH50.....	49	LBX10210.....	94	LWA0215.....	91
L22ED02.....	35	L22KL10.....	53	L22MJ10.....	54	L23CH60.....	49	LBX10510.....	95	LWA0216.....	91
L22ED03.....	35	L22KL20.....	53	L22MJ20.....	54	L61BA22.....	33	LBX10510S.....	95	LWA0219.....	90
L22ED04.....	35	L22KL30.....	53	L22MJ30.....	54	L61BA22B.....	33	LBX10610.....	94	LWA0220.....	90
L22EL10.....	52	L22KM10.....	53	L22MK01.....	40	L61BA22F.....	33	LBX107210.....	94	LWA0223.....	87
L22EL20.....	52	L22KM20.....	53	L22MK02.....	40	L61BA22G.....	33	LBX11210.....	96	LWA0225.....	88
L22EL40.....	52	L22KM30.....	53	L22MK03.....	40	L61QA21.....	32	LBX11301.....	97	LWA0226.....	90
L22EM10.....	52	L22KP01.....	39	L22MK08.....	40	L61QA21B.....	32	LBX11302.....	97	LWA0228.....	87
L22EM20.....	52	L22KP02.....	39	L22ML30.....	55	L61QA21V.....	32	LBX11311.....	97	LWA0229.....	91
L22EM40.....	52	L22KP03.....	39	L22MM30.....	55	L61QA22.....	32	LBX12510.....	94	LWA0230.....	90
L22ER01.....	37	L22KP08.....	39	L22MN30.....	55	L61QA22K.....	32	LBX12610.....	94	LWA0234.....	88
L22ER01F.....	37	L22KQ01.....	39	L22MP30.....	55	L61QA33C.....	32	LBX130003.....	95	LWA0237.....	89
L22ER01K.....	37	L22KQ02.....	39	L22MR01.....	41	L61QA53.....	32	LBX130004.....	95	LWA0238.....	90
L22GM01.....	35	L22KQ03.....	39	L22MR02.....	41	L61QB21.....	32	LBX130005.....	95	LWA0238-101.....	92
L22GQ01.....	36	L22KR01.....	39	L22MR03.....	41	L61QB21B.....	32	LBX130006.....	95	LWA0238-104.....	92
L22GR01.....	37	L22KR02.....	39	L22MR08.....	41	L61QH21.....	50	LBX130007.....	95	LWA0238-301.....	92
L22HA01.....	45	L22KR03.....	39	L22MS01.....	41	L61QH21A.....	50	LBX130009.....	95	LWA0238-401.....	92
L22HA02.....	45	L22KS01.....	39	L22MS02.....	41	L61QH22A.....	50	LBX130010.....	95	LWA0238-402.....	92
L22HA03.....	45	L22KS02.....	39	L22MS03.....	41	L61QH22V.....	50	LBX130028.....	94	LWA0240.....	88
L22HA04.....	45	L22KS03.....	39	L22MS08.....	41	L61QK21.....	50	LBX130057.....	96	LWA0251.....	87
L22HA05.....	45	L22KT01.....	39	L22MT01.....	41	L61QK21A.....	50	LBX130065.....	96	LWA0252.....	87
L22HA06.....	45	L22KT02.....	39	L22MT02.....	41	L61QK53.....	50	LBX130066.....	96	LWA0253.....	87
L22HA363949.....	45	L22KT03.....	39	L22MT03.....	41	L61QM21.....	32	LBX130067.....	96	LWA0255.....	87
L22HB01.....	45	L22KU01.....	39	L22MT08.....	41	L61QM21B.....	32	LBX130068.....	96	LWB11.....	81
L22HB02.....	45	L22KU02.....	39	L22MU01.....	41	L61QN21.....	50	LBX130069.....	96	LWB12.....	81
L22HB03.....	45	L22KU03.....	39	L22MU02.....	41	L61QN21A.....	50	LBX130071.....	96	LWB13.....	81
L22HB04.....	45	L22KV30.....	54	L22MU03.....	41	L62BA22.....	33	LBX130072.....	96	LWB14.....	81
L22HB05.....	45	L22KX30.....	54	L22MU08.....	41	L62BA22A.....	33	LBX130074.....	95	LWB16.....	81
L22HB06.....	45	L22KY30.....	54	L22NA00.....	44	L62BA22B.....	33	LBX130075.....	95	LWB19.....	81
L22KA01.....	38	L22LA00.....	43	L22NB00.....	44	L62BA22F.....	33	LBX14101.....	97	LWE16.....	81
L22KA02.....	38	L22LB00.....	43	L22NC00.....	44	L62BA22G.....	33	LBX14102.....	97	LWE16100.....	80
L22KA03.....	38	L22LC00.....	43	L22ND00.....	44	L62QA21.....	32	LBX14111.....	97	LWE16200.....	80
L22KA08.....	38	L22LD00.....	43	L22NE00.....	44	L62QA21B.....	32	LBX14201.....	97	LWE16300.....	80
L22KB01.....	38	L22LF00.....	43	L22NJ00.....	44	L62QA21V.....	32	LBX14202.....	97	LWE16400.....	80
L22KB02.....	38	L22LG00.....	43	L22NK00.....	44	L62QA22.....	32	LBX14211.....	97	LWE60.....	80
L22KB03.....	38	L22LH00.....	43	L22NL00.....	44	L62QA22K.....	32	LBX15301.....	97	LWE60100.....	80
L22KB08.....	38	L22LK00.....	43	L22RP03.....	47	L62QA33.....	32	LBX15302.....	97	LWE60200.....	80
L22KC01.....	38	L22MA01.....	40	L22TA03.....	42	L62QA33C.....	32	LBX15311.....	97	LWE60300.....	80
L22KC02.....	38	L22MA02.....	40	L22TB03.....	42	L62QA53.....	32	LBX17301.....	96	LWE60431.....	80
L22KC03.....	38	L22MA03.....	40	L22TF03.....	42	L62QB21.....	32	LBX17302.....	96	LWE60900.....	80
L22KC08.....	38	L22MA08.....	40	L22UA03.....	42	L62QB21B.....	32	LBX17311.....	96	LWE70.....	80
L22KD01.....	38	L22MB01.....	40	L22UB03.....	42	L62QH21.....	50	LBX20120.....	98	LWE70300.....	80
L22KD02.....	38	L22MB02.....	40	L22UC03.....	42	L62QH21A.....	50	LBX201660.....	98	LWE70900.....	80
L22KD03.....	38	L22MB03.....	40	L22UD03.....	42	L62QH22A.....	50	LBX210770.....	98	LWE80.....	80
L22KD08.....	38	L22MB08.....	40	L22UK03.....	42	L62QH22V.....	50	LBX30008.....	99	LWE80300.....	80
L22KE01.....	38	L22MC01.....	40	L22VA03H.....	46	L62QK21.....	50	LBX30430.....	99	LWE80431.....	80
L22KE02.....	38	L22MC02.....	40	L22VA03L.....	46	L62QK21A.....	50	LBX308830.....	99	LWE80900.....	80
L22KE03.....	38	L22MC03.....	40	L22VA03M.....	46	L62QK53.....	50	LBX323870.....	99	LWG3.....	78
L22KE08.....	38	L22MC08.....	40	L23AA01.....	31	L62QM21.....	32	LM11.....	74	LWG31.....	76
L22KF01.....	38	L22MD01.....	40	L23AA02.....	31	L62QM21B.....	32	LM2A.....	47	LWG33.....	76
L22KF02.....	38	L22MD02.....	40	L23AA03.....	31	L62QN21.....	50	LM2F.....	47	LWG35.....	76
L22KF03.....	38	L22MD03.....	40	L23AA04.....	31	L62QN21A.....	50	LM4A.....	47	LWG37.....	76
L22KF08.....	38	L22MD08.....	40	L23AA05.....	31	LBX0100.....	100	LM4F.....	47	LWG39.....	76
L22KG10.....	53	L22ME10.....	54	L23AA06.....	31	LBX0100J.....	100	LMAC.....	47	LWP2.....	78
L22KG20.....	53	L22ME20.....	54	L23AA81.....	31	LBX0100JB.....	100	LME3.....	68	LWP21.....	77
L22KG30.....	53	L22ME30.....	54	L23AA82.....	31	LBX0100NR.....	100	LME5.....	68	LWP23.....	77
L22KH10.....	53	L22MF10.....	54	L23AH10.....	49	LBX0200.....	100	LMV2A.....	47	LWP25.....	77
L22KH20.....	53	L22MF20.....	54	L23AH20.....	49	LBX0200J.....	100	LMV2F.....	47	LWP27.....	77
L22KH30.....	53	L22MF30.....	54	L23AH40.....	49	LBX0300.....	100	LMV4A.....	47	LWP29.....	77
L22KJ10.....	53	L22MG10.....	54	L23AH50.....	49	LBX0400.....	101	LMV4F.....	47	LWP3.....	78
L22KJ20.....	53	L22MG20.....	54	L23AH60.....	49	LBX0500.....	101	LWA0203.....	87	LWP31.....	76

CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
LWP33.....	76	T11AK30.....	14	T11HG04.....	140	T11MD03.....	136	UA0011.....	149	0165229LS.....	177
LWP35.....	76	T11AK40.....	141	T11HG05.....	140	T11MD08.....	136	UA0012.....	149	0165229NS.....	175
LWP37.....	76	T11AK50.....	141	T11HG06.....	140	T11ME10.....	143	UA0013.....	149	0165229SS.....	176
LWP39.....	76	T11AK60.....	141	T11KA01.....	136	T11ME20.....	143	UA0014.....	149	0165239LS.....	177
LWP4.....	78	T11AM10.....	142	T11KA03.....	136	T11ME50.....	143	UA0016.....	149	0165239NS.....	175
LWP41.....	77	T11AM20.....	142	T11KA08.....	136	T11MG10.....	143	UA0202.....	149	0165239SS.....	176
LWP43.....	77	T11AM40.....	142	T11KB01.....	136	T11MG20.....	143	UA0209.....	150	0165309LS.....	177
LWP45.....	77	T11AM50.....	142	T11KB03.....	136	T11MG50.....	143	UA0215.....	150	0165309NS.....	175
LWP47.....	77	T11AP10.....	141	T11KB08.....	136	T11MH10.....	143	UA0219.....	149	0165309SS.....	176
LWP49.....	77	T11AP20.....	141	T11KC01.....	136	T11MH20.....	143	UA0225.....	150	0165319LS.....	177
M20-BK.....	91	T11AP30.....	141	T11KC03.....	136	T11MH50.....	143	UA0228.....	149	0165319NS.....	175
PG11-GY.....	91	T11AP40.....	141	T11KC08.....	136	T11MJ10.....	143	UE00300.....	145	0165319SS.....	176
PG13-GY.....	91	T11AP50.....	141	T11KD01.....	136	T11MJ20.....	143	UG3.....	147	0165329LS.....	177
PG16-GY.....	91	T11AP60.....	141	T11KD03.....	136	T11MJ50.....	143	UG31.....	146	0165329NS.....	175
PG21-GY.....	91	T11CB01.....	134	T11KD08.....	136	T11MK01.....	136	UG33.....	146	0165329SS.....	176
PG29-GY.....	91	T11CB02.....	134	T11KE01.....	136	T11MK03.....	136	UG37.....	146	0165339LS.....	177
T10SA10.....	144	T11CB03.....	134	T11KE03.....	136	T11MK08.....	136	UG39.....	146	0165339NS.....	175
T10SA20.....	144	T11CB04.....	134	T11KE08.....	136	T11MR01.....	137	UP3.....	147	0165339SS.....	176
T10SA30.....	144	T11CB05.....	134	T11KF01.....	136	T11MR03.....	137	UP31.....	146	0165409LS.....	188
T10SA40.....	144	T11CB06.....	134	T11KF03.....	136	T11MR08.....	137	UP33.....	146	0165409NS.....	186
T10SA50.....	144	T11CK10.....	142	T11KF08.....	136	T11MT01.....	137	UP37.....	146	0165409SS.....	187
T10SA60.....	144	T11CK20.....	142	T11KG10.....	143	T11MT03.....	137	UP39.....	146	0165419LS.....	188
T10SB10.....	144	T11CK30.....	142	T11KG20.....	143	T11MT08.....	137	UWE60.....	145	0165419NS.....	186
T10SB20.....	144	T11CK40.....	142	T11KG50.....	143	T11MU01.....	137	UWE60300.....	145	0165419SS.....	187
T10SB30.....	144	T11CK50.....	142	T11KJ10.....	143	T11MU03.....	137	UWE60431.....	145	0165429LS.....	188
T10SB40.....	144	T11DD01.....	135	T11KJ20.....	143	T11MU08.....	137	UWE70.....	145	0165429NS.....	186
T10SB50.....	144	T11DD01S.....	135	T11KJ50.....	143	T11MW01.....	137	UWE70300.....	145	0165429SS.....	187
T10SB60.....	144	T11DD02.....	135	T11KK10.....	143	T11MW02.....	137	UWE80300.....	145	0165439LS.....	188
T11AA01.....	133	T11DD03.....	135	T11KK20.....	143	T11MW03.....	137	UWE80431.....	145	0165439NS.....	186
T11AA02.....	133	T11DD04.....	135	T11KK50.....	143	T11NA00.....	138	WA0210.....	88	0165439SS.....	187
T11AA03.....	133	T11ED01.....	135	T11KM10.....	143	T11NC00.....	138			0165509LS.....	188
T11AA04.....	133	T11ED01S.....	135	T11KM20.....	143	T11ND00.....	138			0165509NS.....	186
T11AA05.....	133	T11ED02.....	135	T11KM50.....	143	T11NK00.....	138			0165509SS.....	187
T11AA06.....	133	T11ED03.....	135	T11KP01.....	137	T15AA01.....	133			0165519LS.....	188
T11AA81.....	133	T11ED04.....	135	T11KP03.....	137	T15AA02.....	133	0165009LS.....	165	0165519NS.....	186
T11AA82.....	133	T11FD01.....	135	T11KP08.....	137	T15AA03.....	133	0165009NS.....	163	0165519SS.....	187
T11AA83.....	133	T11FD01S.....	135	T11KQ01.....	137	T15AA04.....	133	0165009SS.....	164	0165529LS.....	188
T11AB01.....	133	T11FD02.....	135	T11KQ03.....	137	T15AA05.....	133	0165019LS.....	165	0165529NS.....	186
T11AB02.....	133	T11FD03.....	135	T11KQ08.....	137	T15AA06.....	133	0165019NS.....	163	0165529SS.....	187
T11AB03.....	133	T11FD04.....	135	T11KR01.....	137	T15A10.....	144	0165019SS.....	164	0165539LS.....	188
T11AB04.....	133	T11GF00.....	139	T11KR03.....	137	T15A20.....	144	0165029LS.....	165	0165539NS.....	186
T11AB05.....	133	T11GG00.....	139	T11KR08.....	137	T15A30.....	144	0165029NS.....	163	0165539SS.....	187
T11AB06.....	133	T11GH00.....	139	T11KS01.....	137	T15A40.....	144	0165029SS.....	164	0168009LS.....	165
T11AD01.....	134	T11GJ00.....	139	T11KS03.....	137	T15A50.....	144	0165039LS.....	165	0168009NS.....	163
T11AD01S.....	134	T11GK00.....	139	T11KS08.....	137	T15A60.....	144	0165039NS.....	163	0168009SS.....	164
T11AD02.....	134	T11GL00.....	139	T11KT01.....	137	T15SB10.....	144	0165039SS.....	164	0168019LS.....	165
T11AD03.....	134	T11GM00.....	139	T11KT03.....	137	T15SB20.....	144	0165109LS.....	165	0168019NS.....	163
T11AD04.....	134	T11GM01.....	135	T11KT08.....	137	T15SB30.....	144	0165109NS.....	163	0168019SS.....	164
T11AE01.....	134	T11GP01.....	135	T11KU01.....	137	T15SB40.....	144	0165109SS.....	164	0168029LS.....	165
T11AE03.....	134	T11HA01.....	140	T11KU03.....	137	T15SB60.....	144	0165119LS.....	165	0168029NS.....	163
T11AG01.....	133	T11HA02.....	140	T11KU08.....	137	T52QA02.....	134	0165119NS.....	163	0168029SS.....	164
T11AG02.....	133	T11HA03.....	140	T11LA00.....	138	T52QA20.....	134	0165119SS.....	164	0168039LS.....	165
T11AG03.....	133	T11HA04.....	140	T11LB00.....	138	TBPA301-101.....	151	0165129LS.....	165	0168039NS.....	163
T11AG04.....	133	T11HA05.....	140	T11LC00.....	138	TBPA301-104.....	151	0165129NS.....	163	0168039SS.....	164
T11AG05.....	133	T11HA06.....	140	T11LD00.....	138	TBPA301-201.....	151	0165129SS.....	164	0168109LS.....	165
T11AG06.....	133	T11HB01.....	140	T11LF00.....	138	TBPA301-204.....	151	0165139LS.....	165	0168109NS.....	163
T11AH10.....	141	T11HB02.....	140	T11LG00.....	138	TBPA301-301.....	152	0165139NS.....	163	0168109SS.....	164
T11AH20.....	141	T11HB03.....	140	T11MA01.....	136	TBPA301-311.....	152	0165139SS.....	164	0168119LS.....	165
T11AH30.....	141	T11HB04.....	140	T11MA03.....	136	TBPA301-321.....	152	0165209LS.....	177	0168119NS.....	163
T11AH40.....	141	T11HB05.....	140	T11MA08.....	136	TBPA301-401.....	151	0165209NS.....	175	0168119SS.....	164
T11AH50.....	141	T11HB06.....	140	T11MC01.....	136	TBPA302-001.....	152	0165209SS.....	176	0168129LS.....	165
T11AH60.....	141	T11HG01.....	140	T11MC03.....	136	TBPA302-002.....	152	0165219LS.....	177	0168129NS.....	163
T11AK10.....	14	T11HG02.....	140	T11MC08.....	136	TBPA302-002.....	152	0165219NS.....	175	0168129SS.....	164
T11AK20.....	14	T11HG03.....	140	T11MD01.....	136	TBPA304-402.....	151	0165219SS.....	176	0168139LS.....	165

DISCONNECT SWITCHES

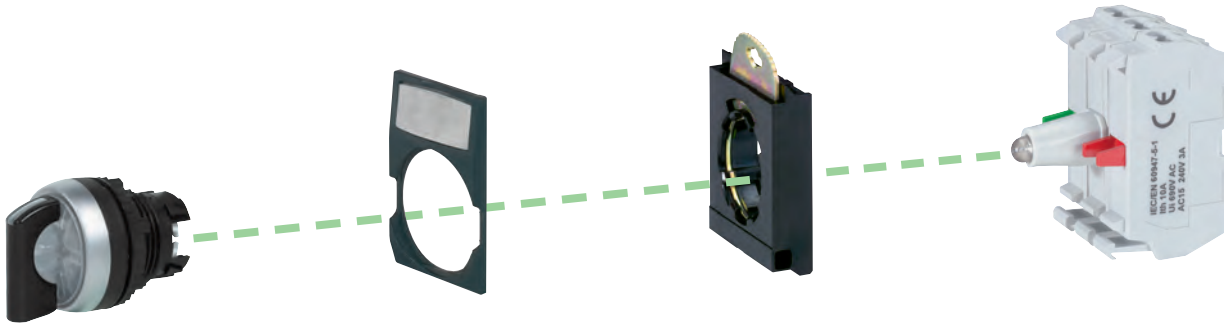
CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
0168139NS.....	163	0172024.....	161	0172232.....	173	0172492.....	190	0174091.....	166	0174321.....	172
0168139SS.....	164	0172029.....	166	0172239.....	179	0172500.....	191	0174092.....	167	0174322.....	173
0168209LS.....	177	0172031.....	158	0172261.....	178	0172501.....	183	0174101.....	158	0174325.....	174
0168209NS.....	175	0172032.....	159	0172262.....	179	0172502.....	184	0174102.....	159	0174329.....	178
0168209SS.....	176	0172033.....	160	0172265.....	180	0172509.....	189	0174105.....	162	0174331.....	172
0168219LS.....	177	0172039.....	167	0172267.....	171	0172511.....	183	0174109.....	166	0174332.....	173
0168219NS.....	175	0172061.....	166	0172271.....	178	0172512.....	184	0174111.....	158	0174335.....	174
0168219SS.....	176	0172062.....	167	0172272.....	179	0172519.....	190	0174112.....	159	0174339.....	179
0168229LS.....	177	0172065.....	168	0172275.....	180	0172521.....	183	0174115.....	162	0174399.....	170
0168229NS.....	175	0172071.....	166	0172277.....	193	0172522.....	184	0174119.....	167	0174401.....	183
0168229SS.....	176	0172072.....	167	0172281.....	178	0172529.....	189	0174121.....	158	0174402.....	184
0168239LS.....	177	0172075.....	168	0172282.....	179	0172531.....	183	0174122.....	159	0174405.....	185
0168239NS.....	175	0172081.....	166	0172291.....	178	0172532.....	184	0174125.....	162	0174409.....	189
0168239SS.....	176	0172082.....	167	0172292.....	179	0172539.....	190	0174129.....	166	0174411.....	183
0168309LS.....	177	0172091.....	166	0172292.....	179	0172549.....	170	0174131.....	158	0174412.....	184
0168309NS.....	175	0172092.....	167	0172300.....	180	0172559.....	170	0174132.....	159	0174415.....	185
0168309SS.....	176	0172100.....	168	0172301.....	172	0172561.....	189	0174135.....	162	0174417.....	185
0168319LS.....	177	0172101.....	158	0172302.....	173	0172562.....	190	0174139.....	167	0174421.....	183
0168319NS.....	175	0172102.....	159	0172309.....	178	0172565.....	191	0174161.....	166	0174422.....	184
0168319SS.....	176	0172103.....	160	0172311.....	172	0172567.....	193	0174162.....	167	0174425.....	185
0168329LS.....	177	0172104.....	161	0172312.....	173	0172569.....	181	0174171.....	166	0174429.....	189
0168329NS.....	175	0172109.....	166	0172319.....	179	0172571.....	189	0174172.....	167	0174431.....	183
0168329SS.....	176	0172111.....	158	0172321.....	172	0172572.....	190	0174179.....	171	0174432.....	184
0168339LS.....	177	0172112.....	159	0172322.....	173	0172572.....	190	0174179.....	171	0174432.....	184
0168339NS.....	175	0172113.....	160	0172322.....	173	0172575.....	191	0174181.....	166	0174435.....	185
0168339SS.....	176	0172114.....	161	0172329.....	178	0172579.....	181	0174182.....	167	0174449.....	171
0168409LS.....	188	0172119.....	167	0172331.....	172	0172581.....	189	0174189.....	171	0174461.....	189
0168409NS.....	186	0172121.....	158	0172332.....	173	0172582.....	190	0174191.....	166	0174462.....	190
0168409SS.....	187	0172122.....	159	0172333.....	173	0172585.....	191	0174192.....	167	0174471.....	189
0168419LS.....	188	0172123.....	160	0172339.....	179	0172589.....	182	0174199.....	171	0174472.....	190
0168419NS.....	186	0172124.....	161	0172365.....	180	0172591.....	189	0174201.....	172	0174481.....	189
0168419SS.....	187	0172129.....	166	0172367.....	182	0172592.....	190	0174202.....	173	0174482.....	190
0168429LS.....	188	0172131.....	158	0172371.....	178	0172595.....	191	0174205.....	174	0174491.....	189
0168429NS.....	186	0172132.....	159	0172372.....	179	0172599.....	192	0174209.....	178	0174492.....	190
0168429SS.....	187	0172133.....	160	0172377.....	182	0172601.....	169	0174211.....	172	0174501.....	183
0168439LS.....	188	0172139.....	167	0172381.....	178	0172602.....	169	0174212.....	173	0174502.....	184
0168439NS.....	186	0172161.....	166	0172382.....	179	0172603.....	169	0174215.....	174	0174505.....	185
0168439SS.....	187	0172162.....	167	0172385.....	180	0172604.....	169	0174219.....	179	0174509.....	189
0168509LS.....	188	0172165.....	168	0172391.....	178	0172612.....	181	0174221.....	172	0174511.....	183
0168509NS.....	186	0172167.....	171	0172392.....	179	0172621.....	192	0174222.....	173	0174512.....	184
0168509SS.....	187	0172171.....	166	0172392.....	179	0172622.....	192	0174225.....	174	0174515.....	185
0168519LS.....	188	0172172.....	167	0172395.....	180	0172629.....	171	0174229.....	178	0174519.....	190
0168519NS.....	186	0172175.....	168	0172399.....	170	0172649.....	171	0174231.....	172	0174521.....	183
0168519SS.....	187	0172177.....	171	0172400.....	191	0172649.....	171	0174232.....	173	0174522.....	184
0168529LS.....	188	0172179.....	168	0172401.....	183	0174001.....	158	0174235.....	174	0174525.....	185
0168529NS.....	186	0172181.....	166	0172402.....	184	0174002.....	159	0174239.....	179	0174529.....	189
0168529SS.....	187	0172182.....	167	0172409.....	189	0174005.....	162	0174249.....	171	0174531.....	183
0168539LS.....	188	0172185.....	168	0172411.....	183	0174009.....	166	0174259.....	171	0174532.....	184
0168539NS.....	186	0172189.....	171	0172412.....	184	0174011.....	158	0174261.....	178	0174535.....	185
0168539SS.....	187	0172191.....	166	0172419.....	190	0174012.....	159	0174262.....	179	0174539.....	190
0172000.....	168	0172192.....	167	0172421.....	183	0174015.....	162	0174269.....	193	0174561.....	189
0172001.....	158	0172195.....	168	0172422.....	184	0174019.....	167	0174271.....	178	0174562.....	190
0172002.....	159	0172199.....	171	0172429.....	189	0174021.....	158	0174272.....	179	0174569.....	171
0172003.....	160	0172200.....	180	0172431.....	183	0174022.....	159	0174281.....	178	0174571.....	189
0172004.....	161	0172201.....	172	0172432.....	184	0174025.....	162	0174282.....	179	0174572.....	190
0172009.....	166	0172202.....	173	0172439.....	190	0174029.....	166	0174291.....	178	0174581.....	189
0172011.....	158	0172209.....	178	0172461.....	189	0174031.....	158	0174292.....	179	0174582.....	190
0172012.....	159	0172211.....	172	0172462.....	190	0174032.....	159	0174301.....	172	0174591.....	189
0172013.....	160	0172212.....	172	0172465.....	191	0174035.....	162	0174302.....	173	0174592.....	190
0172014.....	161	0172219.....	179	0172471.....	189	0174039.....	167	0174305.....	174	0174599.....	171
0172019.....	167	0172221.....	172	0172472.....	190	0174061.....	166	0174309.....	178	0174601.....	169
0172021.....	158	0172222.....	173	0172475.....	191	0174062.....	167	0174311.....	172	0174602.....	169
0172022.....	159	0172229.....	178	0172481.....	189	0174071.....	166	0174312.....	173	0174612.....	181
0172023.....	160	0172231.....	172	0172482.....	190	0174072.....	167	0174315.....	174	0174621.....	192
				0172491.....	189	0174081.....	166	0174319.....	179	0174622.....	192
						0174082.....	167				

CATALOG PART NUMBER INDEX

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE
CAM SWITCHES											
223501.....	208	HB03AQ7.....	212	ID02AQ7.....	220	NC51DC113.....	210	NZ52BXQ.....	229	TC51DXQ.....	217
223502.....	208	HB04ABQ.....	213	ID03AQ7.....	220	NC51DC123.....	210	NZ52CQ1.....	228	TC52DXQ.....	216
223503.....	208	HB04AQ7.....	212	IS3BV733-IP65.....	215	NC51DQ1.....	216	NZ52CXQ.....	229	TC53DQ1.....	217
223504.....	208	HC01GAQ.....	219	IS3CQ72.....	214	NC51DX80.....	210	SB01AQ1.....	212	TC53DXQ.....	216
223505.....	208	HC01GQ7.....	218	IS3EV733-IP65.....	214	NC51DXQ.....	217	SB01AXQ.....	213	TC54DQ1.....	216
223506.....	208	HC02GBQ.....	219	IS4BV733-IP65.....	215	NC52DC113.....	210	SB02AQ1.....	212	TC54DXQ.....	217
223507.....	208	HC02GQ7.....	218	IS4EV733-IP65.....	214	NC52DC123.....	210	SB02AXQ.....	213	TD01AQ1.....	220
223508.....	208	HC03GCQ.....	219	IZ11GCQ.....	223	NC52DQ1.....	216	SB03AQ1.....	212	TD01AXQ.....	221
223511.....	208	HC03GQ7.....	218	IZ11GQ7.....	222	NC52DX80.....	210	SB03AXQ.....	213	TD02AQ1.....	220
223512.....	208	HC04GDO.....	219	IZ13GQ7.....	224	NC52DXQ.....	217	SB04AQ1.....	212	TD02AXQ.....	221
223513.....	208	HC04GQ7.....	218	IZ51BDQ.....	227	NC53DC113.....	210	SB04AXQ.....	213	TD03AQ1.....	220
223514.....	208	HC51DAQ.....	217	IZ51BQ7.....	226	NC53DC123.....	210	SC01GQ1.....	218	TD03AXQ.....	221
223515.....	208	HC51DQ7.....	216	IZ52BDQ.....	229	NC53DQ1.....	216	SC01GXQ.....	219	TS3EV493-IP65.....	214
223516.....	208	HC52DBQ.....	217	IZ52BQ7.....	228	NC53DX80.....	210	SC02GQ1.....	218	TS3XV483-IP65.....	215
223517.....	208	HC52DQ7.....	216	IZ52CDQ.....	229	NC53DXQ.....	217	SC02GXQ.....	219	TS4EV493-IP65.....	214
223521.....	208	HC53DCQ.....	217	IZ52CQ7.....	228	NC54DC113.....	210	SC03GQ1.....	218	TS4XV483-IP65.....	215
223522.....	208	HC53DQ7.....	216	NB01AC113.....	210	NC54DC123.....	210	SC03GXQ.....	219	TZ11GQ1.....	222
223523.....	208	HC54DDQ.....	217	NB01AC123.....	210	NC54DQ1.....	216	SC04GQ1.....	218	TZ11GXQ.....	223
223525.....	208	HC54DQ7.....	216	NB01AC1C1.....	210	NC54DX80.....	210	SC04GXQ.....	219	TZ13GQ1.....	224
223526.....	208	HD01ABQ.....	221	NB01AQ1.....	212	NC54DXQ.....	217	SC51DQ1.....	216	TZ13GXQ.....	225
223527.....	208	HD01AQ7.....	220	NB01AX80.....	210	ND01AC113.....	211	SC51DXQ.....	217	TZ51BQ1.....	226
223528.....	208	HD02ACQ.....	221	NB01AXQ.....	213	ND01AC123.....	211	SC52DQ1.....	216	TZ51BXQ.....	227
223529.....	208	HD02AQ7.....	220	NB02AC113.....	210	ND01AC1C1.....	211	SC52DXQ.....	217	TZ52BQ1.....	228
227600.....	202	HD03AQ7.....	220	NB02AC123.....	210	ND01AQ1.....	220	SC53DQ1.....	216	TZ52CXQ.....	229
227601.....	202	HS3BV733-IP65.....	215	NB02AC1C1.....	210	ND01AX80.....	211	SC53DXQ.....	217	TZ52DQ1.....	228
227602.....	202	HS4EV733-IP65.....	214	NB02AQ1.....	212	ND01AXQ.....	221	SC54DQ1.....	216	TZ52CXQ.....	229
227603.....	202	HS4EV733-IP65.....	215	NB02AX80.....	210	ND02AC113.....	211	SC54DXQ.....	217	ZB01AQ7.....	212
227604.....	202	HZ11GCQ.....	214	NB02AXQ.....	213	ND02AC123.....	211	SD01AQ1.....	220	ZB01AXQ.....	213
227605.....	202	HZ11GQ7.....	222	NB03AC113.....	210	ND02AQ1.....	220	SD01AXQ.....	221	ZB02AQ7.....	212
227606.....	202	HZ13GQ7.....	224	NB03AC123.....	210	ND02AX80.....	211	SD02AQ1.....	220	ZB02AXQ.....	213
227607.....	202	HZ51BDQ.....	227	NB03AC1C1.....	210	ND02AXQ.....	221	SD02AXQ.....	221	ZB03AQ7.....	212
227608.....	202	HZ51BQ7.....	226	NB03AQ1.....	212	ND02AQ1.....	220	SD03AQ1.....	220	ZB03AXQ.....	213
227609.....	202	HZ52BDQ.....	229	NB03AX80.....	210	ND02AX80.....	211	SD03AXQ.....	221	ZB04AQ7.....	212
227610.....	202	HZ52BQ7.....	228	NB03AXQ.....	213	ND02AXQ.....	221	S53EV493-IP65.....	214	ZB04AXQ.....	213
227611.....	202	HZ52CDQ.....	229	NB04AC113.....	210	ND03AC113.....	211	S53XV483-IP65.....	215	ZC01GQ7.....	218
227612.....	202	HZ52CQ7.....	228	NB04AC123.....	210	ND03AC123.....	211	S54EV493-IP65.....	214	ZC01GXQ.....	219
227613.....	202	IB01AAQ.....	213	NB04AC1C1.....	210	ND03AQ1.....	220	S54XV483-IP65.....	215	ZC02GQ7.....	218
227614.....	202	IB01AAQ.....	213	NB04AQ1.....	212	ND03AX80.....	211	SZ11GQ1.....	222	ZC02GXQ.....	219
227615.....	202	IB01AQ7.....	212	NB04AX80.....	210	ND03AXQ.....	221	SZ11GXQ.....	223	ZC03GQ7.....	218
227616.....	202	IB02AAQ.....	213	NB04AXQ.....	213	ND04AC113.....	211	SZ13GQ1.....	224	ZC03GXQ.....	219
227617.....	202	IB02AQ7.....	212	NC01GC113.....	211	ND04AC123.....	211	SZ13GXQ.....	225	ZC04GQ7.....	218
227618.....	203	IB03ABQ.....	213	NC01GC123.....	211	ND04AC1C1.....	211	SZ51BQ1.....	226	ZC04GXQ.....	219
227619.....	203	IB03AQ7.....	212	NC01GC1C1.....	211	ND04AQ1.....	220	SZ51BXQ.....	227	ZC51DQ7.....	216
227620.....	203	IB04ABQ.....	213	NC01GQ1.....	218	ND04AX80.....	211	SZ52BQ1.....	228	ZC51DXQ.....	217
227621.....	203	IB04AQ7.....	212	NC01GX80.....	211	NS3EV493-IP65.....	214	SZ52BXQ.....	229	ZC52DQ7.....	216
227622.....	203	IC01GAQ.....	219	NC01GXQ.....	219	NS3XV483-IP65.....	215	SZ52CQ1.....	228	ZC52DXQ.....	217
227623.....	204	IC01GQ7.....	218	NC02GC113.....	211	NS4EV493-IP65.....	214	SZ52CXQ.....	229	ZC53DQ7.....	216
227624.....	203	IC02GBQ.....	219	NC02GC123.....	211	NS4XV483-IP65.....	215	TB01AQ1.....	212	ZC53DXQ.....	217
227625.....	203	IC02GQ7.....	218	NC02GC1C1.....	211	NY11AQ1.....	230	TB01AXQ.....	213	ZC54DQ7.....	216
227626.....	203	IC03GCQ.....	219	NC02GQ1.....	218	NY11AX80.....	230	TB02AQ1.....	212	ZC54DXQ.....	217
227627.....	203	IC03GQ7.....	218	NC02GX80.....	211	NY14AQ1.....	230	TB02AXQ.....	213	ZD01AQ7.....	220
227629.....	204	IC04GDQ.....	219	NC02GXQ.....	219	NY14AX80.....	230	TB03AQ1.....	212	ZD01AXQ.....	221
227630.....	203	IC04GQ7.....	218	NC03GC113.....	211	NY17AQ1.....	231	TB03AXQ.....	213	ZD02AQ7.....	220
227631.....	203	IC51DAQ.....	217	NC03GC123.....	211	NY17AX80.....	231	TB04AQ1.....	212	ZD02AXQ.....	221
227632.....	203	IC51DQ7.....	216	NC03GC1C1.....	211	NY31AQ1.....	232	TB04AXQ.....	213	ZD03AQ7.....	220
227633.....	203	IC52DBQ.....	217	NC03GQ1.....	218	NY31AX80.....	232	TC01GQ1.....	218	ZS3EV733-IP65.....	214
227636.....	204	IC52DQ7.....	216	NC03GX80.....	211	NY37GQ1.....	232	TC01GXQ.....	219	ZS3XV483-IP65.....	215
227637.....	204	IC52CDQ.....	217	NC03GXQ.....	219	NY71AQ1.....	231	TC02GQ1.....	218	ZS4EV733-IP65.....	214
HB01AAQ.....	213	IC53DQ7.....	216	NC04GC113.....	211	NY71AX80.....	231	TC02GXQ.....	219	ZS4XV483-IP65.....	215
HB01AQ7.....	212	IC54DDQ.....	217	NC04GC123.....	211	NY71AX80.....	231	TC03GQ1.....	218	ZZ11GQ7.....	222
HB02AAQ.....	213	IC54DQ7.....	216	NC04GC1C1.....	211	NY71AX80.....	231	TC03GXQ.....	219	ZZ11GXQ.....	223
HB02AQ7.....	212	ID01ABQ.....	221	NC04GQ1.....	218	NY71AX80.....	231	TC04GQ1.....	218	ZZ13GQ7.....	224
HB03ABQ.....	213	ID01AQ7.....	220	NC04GX80.....	211	NY71AX80.....	231	TC04GXQ.....	219	ZZ51BQ7.....	226
		ID02ACQ.....	221	NC04GXQ.....	219	NZ11GQ1.....	222	TC51DQ1.....	216		

A complete range of devices



Heads

- Integrated Anti-Rotation Ring
- NEMA 4x, IP66, IP67, IP69k
- Modern ergonomic design
- Wide range of functions

Accessories

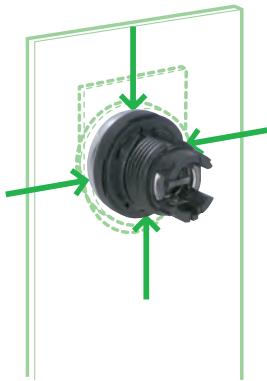
- Legend plates
- Guards
- Shrouds

Clips

- Enhanced rigidity
- Metal locking lever
- Available in 1, 3 or 5 positions

Contact/LED Modules

- Simple to snap onto clips
- Stackable
- LED blocks



Auto-grip ring

Specially designed gasket holds heads firmly in the mounting hole during assembly



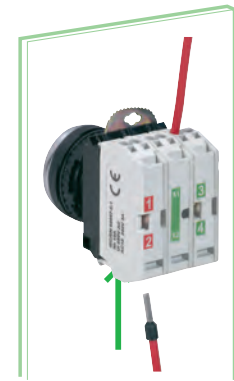
Locking ring

Tighten the locking ring to 3 Nm fix the head to the panel



Fixing

Locate block onto head and lock in place by rotating the metal latch



Quick connection

No tool required for wires with ferrules. New plug-in terminals



Screw Terminals

Our most popular option for a traditional connection



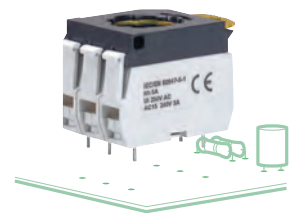
Plug In Terminals

Using spring clamp terminals for a completely safe and time saving solution



Faston Terminals

Quickly and easily wire using 1/4" or .110" connectors



PCB Terminals

No tool required for wires with ferrules. New plug-in terminals

Providing solutions for all applications



IK5

Twin touch
innovative design



IP66 / IP69K
NEMA 4x



Ø 22.3 mm cut-out



Optional cut-out required
for anti-rotation tab



Mushroom head
EN 418 / ISO 13850
illuminated

Illuminated head
5 colors,
LED light source

Selector switches
with key, handle,
lever handle, or
knob



Legend Plates

- Frames can be rotated to 4 positions (0° ; 90° ; 180° and 270°)
- Special legend plate for twin touch
- Choice between 5 colors, blank or pre-engraved



Tampo Printing

- Durable markings
- Button plates can be mounted in 4 positions (0° ; 90° ; 180° and 270°)



Bezels

- Choice of Chrome or Black Bezel

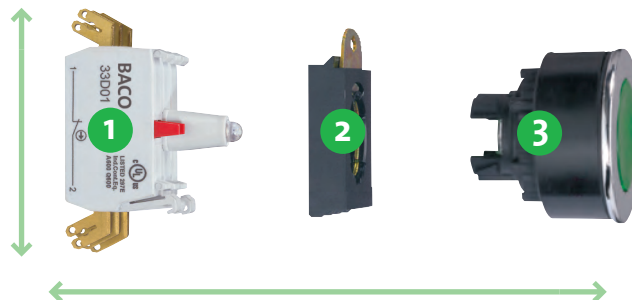
COMPLETE UNITS

- Control and signalling units are supplied ready for use with head, clip and block(s)
- A single product code provides a solution for the most common needs



SEPARATE UNITS & CUSTOMIZED SOLUTIONS

- Maximum flexibility
- For numerous possible solutions



Products for severe environments

► BACO provides solutions for harsh industrial environments.

BACO's 22mm control and signalling devices are available in plastic bodies and can be fitted with an external shroud to protect against liquid and dust ingress into the head itself. All 22mm devices are rated to a minimum IP66 and Type 4X environmental ratings. Many standard operators have more stringent IP67 and IP69K ratings.



Emergency Stops
IP66
IP69K
NEMA 4X



Pushbuttons
IP66
IP69K
NEMA 4X



Selectors
IP66
IP69K
NEMA 4X



Twin Touch
IP66
NEMA 4X



Pilot Lights
IP66
IP69K
NEMA 4X

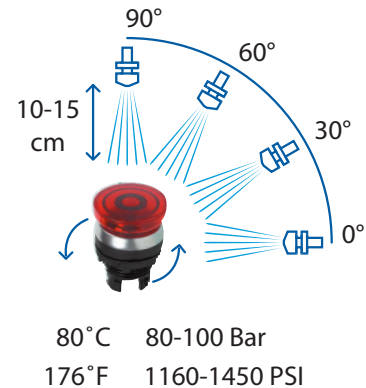
► What is IP69K?

- IP69K is an IEC protection degree rating
- A device having the IP69K rating is **protected against close-range high pressure, high temperature spray downs**

► Do I need IP69K protection?

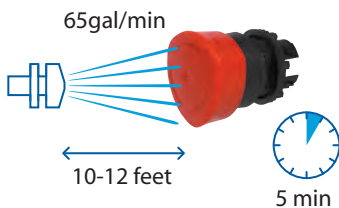
- If your application is in the food, beverage or pharmaceutical industry chances are you already require IP69K ratings.
- Any high-pressure, high temperature wash down applications would benefit from IP69K protection.

► Tough and robust according to **IP69K**

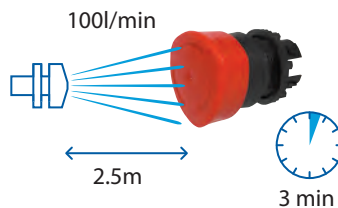


► Additional ratings for harsh environments

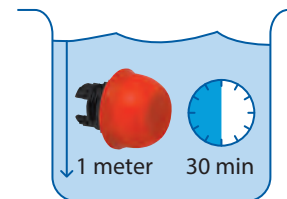
► Watertight according to **NEMA 4x**



► Waterproof according to **IP66**



► Waterproof according to **IP67**



Customized Solutions!

► Baco Controls provides custom Control Stations

Baco Controls offers the convenience of ordering custom assembled control stations. We have laser engraving machines to create custom nameplates for your application. We offer various enclosure sizes and materials to meet your specifications.



Complete units: Part Numbering System

► NON-ILLUMINATED COMPLETE UNITS

L21AA01 - **3** **E** **1** **1** **Y7**
a b c d e

Part number of non-illuminated operator head.
 See pages 29 to 44 for non-illuminated operator heads.

a

CLIP	
Code	Description
1	single module
3	three modules
4	three modules (when using 33E11 contact blocks)
5	five modules

b

TERMINAL STYLE	
Code	Description
E	Screw and Clamp
ED	Stab (Quick Connect)
EP	PCB
ER	Plug In

c

N.O. (NORMALLY OPEN) CONTACTS	
Code	Description
0	No Contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.
5	5 N.O.
6	6 N.O.

d

N.C. (NORMALLY CLOSED) CONTACTS	
Code	Description
0	No Contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.
5	5 N.C.
6	6 N.C.

e

SPECIALTY BLOCKS	
Code	Description
C	Late Break N.C. (Screw and Clamp terminals only)
Y7	Gold Plated Contacts (Screw and Clamp or PCB terminals only)

Complete units: Push-buttons \varnothing 22mm

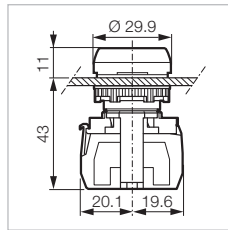
► SPRING RETURN - NON-ILLUMINATED

 Technical Info (p. 106)

FLUSH



L21AA01-1E01



WITH SINGLE POSITION CLIP

● Red	NC
● Green	NO
● Black	NC
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

Chrome Bezel
Part Number

Black Bezel
Part Number

L21AA01-1E01
L21AA02-1E10
L21AA03-1E01
L21AA03-1E10
L21AA04-1E10
L21AA05-1E10
L21AA06-1E10

L22AA01-1E01
L22AA02-1E10
L22AA03-1E01
L22AA03-1E10
L22AA04-1E10
L22AA05-1E10
L22AA06-1E10

WITH INTERNATIONAL SYMBOLS

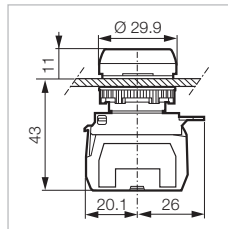
 Red	NC
 Green	NO

L21AA81-1E01
L21AA82-1E10

L22AA81-1E01
L22AA82-1E10



L22AA02-3E10



WITH THREE POSITION CLIP

● Red	NC
● Green	NO
● Black	NC
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

L21AA01-3E01
L21AA02-3E10
L21AA03-3E01
L21AA03-3E10
L21AA04-3E10
L21AA05-3E10
L21AA06-3E10

L22AA01-3E01
L22AA02-3E10
L22AA03-3E01
L22AA03-3E10
L22AA04-3E10
L22AA05-3E10
L22AA06-3E10

● Red	NO + NC
● Green	NO + NC
● Black	NO + NC
● Yellow	NO + NC
○ White	NO + NC
● Blue	NO + NC

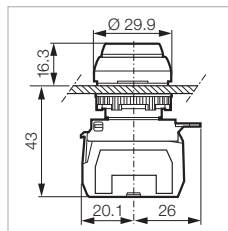
L21AA01-3E11
L21AA02-3E11
L21AA03-3E11
L21AA04-3E11
L21AA05-3E11
L21AA06-3E11

L22AA01-3E11
L22AA02-3E11
L22AA03-3E11
L22AA04-3E11
L22AA05-3E11
L22AA06-3E11

PROJECTING



L21AB04-3E11



WITH SINGLE POSITION CLIP

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

L21AB01-1E01
L21AB02-1E10
L21AB03-1E10
L21AB04-1E10
L21AB05-1E10
L21AB06-1E10

L22AB01-1E01
L22AB02-1E10
L22AB03-1E10
L22AB04-1E10
L22AB05-1E10
L22AB06-1E10

WITH THREE POSITION CLIP

● Red	NO + NC
● Green	NO + NC
● Black	NO + NC
● Yellow	NO + NC
○ White	NO + NC
● Blue	NO + NC

L21AB01-3E11
L21AB02-3E11
L21AB03-3E11
L21AB04-3E11
L21AB05-3E11
L21AB06-3E11

L22AB01-3E11
L22AB02-3E11
L22AB03-3E11
L22AB04-3E11
L22AB05-3E11
L22AB06-3E11

WITH INTERNATIONAL SYMBOL

 Red	NC
---	----

L21AB01B-1E01

L22AB31A70-1E01

Complete units: Push-buttons ϕ 22mm

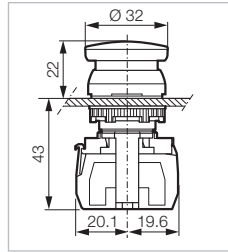
► SPRING RETURN - NON-ILLUMINATED

 Technical Info (p.106)

ϕ 32 MUSHROOM



L21AC01-1E01



WITH SINGLE POSITION CLIP

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO

WITH THREE POSITION CLIP

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO

Chrome Bezel
Part Number

Black Bezel
Part Number

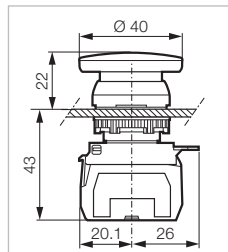
L21AC01-1E01
L21AC02-1E10
L21AC03-1E10
L21AC04-1E10

L22AC01-1E01
L22AC02-1E10
L22AC03-1E10
L22AC04-1E10

ϕ 40 MUSHROOM



L22AD01-3E01



WITH SINGLE POSITION CLIP

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO

WITH THREE POSITION CLIP

● Red	NC
● Green	NO
● Black	NO
● Yellow	NO

L21AD01-1E01
L21AD02-1E10
L21AD03-1E10
L21AD04-1E10

L22AD01-1E01
L22AD02-1E10
L22AD03-1E10
L22AD04-1E10

L21AD01-3E01
L21AD02-3E10
L21AD03-3E10
L21AD04-3E10

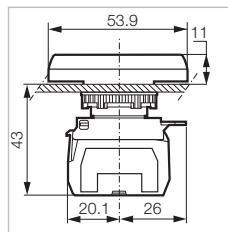
L22AD01-3E01
L22AD02-3E10
L22AD03-3E10
L22AD04-3E10

FLUSH-FLUSH

Twin touch



L62QA21-3E11



WITH INTERNATIONAL SYMBOLS

ⓘ Green	NO
Ⓢ Red	NC

WITH TEXT

● Green (START)	NO
● Red (STOP)	NC

L61QA21-3E11

L62QA21-3E11

L61QA21B-3E11

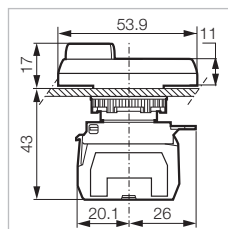
L62QA21B-3E11

FLUSH-PROJECTING

Twin touch



L61QB21-3E11



WITH INTERNATIONAL SYMBOLS

ⓘ Green	NO
Ⓢ Red	NC

WITH TEXT

● Green (START)	NO
● Red (STOP)	NC

L61QB21-3E11

L62QB21-3E11

L61QB21B-3E11

L62QB21B-3E11

Complete units: Push-buttons ϕ 22mm

► SPRING RETURN - NON-ILLUMINATED

 Technical Info (p.106)

FLUSH-PROJECTING-FLUSH

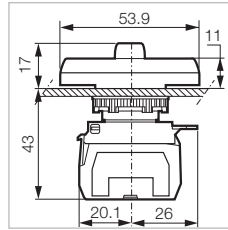
Triple touch

Chrome Bezel
Part Number




Black Bezel
Part Number



L62BA22G-3E21






WITH ARROWS AND TEXT

-  Green NO
-  Red (STOP) NC
-  Green NO

L61BA22-3E21




L62BA22-3E21

-  Green NO
-  Red (STOP) NC
-  Green NO

L61BA22B-3E21

L62BA22B-3E21

WITH TEXT

-  Green (UP) NO
-  Red (STOP) NC
-  Green (DOWN) NO

L61BA22G-3E21

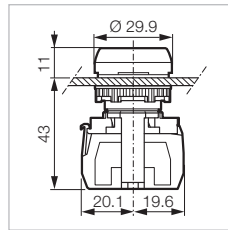
L62BA22G-3E21







► MAINTAINED - NON-ILLUMINATED

FLUSH



L21CA01-1E01



-  Red NC
-  Green NO
-  Black NO
-  Yellow NO
-  White NO
-  Blue NO

L21CA01-1E01

L22CA01-1E01

L21CA02-1E10

L22CA02-1E10

L21CA03-1E10

L22CA03-1E10

L21CA04-1E10







L22CA04-1E10

L21CA05-1E10

L22CA05-1E10

L21CA06-1E10

L22CA06-1E10

-  Red NO + NC
-  Green NO + NC
-  Black NO + NC
-  Yellow NO + NC
-  White NO + NC
-  Blue NO + NC

L21CA01-3E11

L22CA01-3E11

L21CA02-3E11

L22CA02-3E11

L21CA03-3E11

L22CA03-3E11

L21CA04-3E11

L22CA04-3E11

L21CA05-3E11

L22CA05-3E11

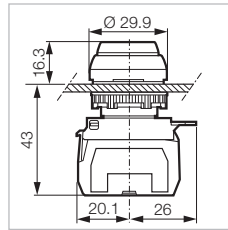
L21CA06-3E11







L22CA06-3E11

PROJECTING



L21CB04-3E11



-  Red NC
-  Green NO
-  Black NO
-  Yellow NO
-  White NO
-  Blue NO

L21CB01-1E01

L22CB01-1E01

L21CB02-1E10

L22CB02-1E10

L21CB03-1E10

L22CB03-1E10

L21CB04-1E10







L22CB04-1E10

L21CB05-1E10

L22CB05-1E10

L21CB06-1E10

L22CB06-1E10

-  Red NO + NC
-  Green NO + NC
-  Black NO + NC
-  Yellow NO + NC
-  White NO + NC
-  Blue NO + NC

L21CB01-3E11

L22CB01-3E11

L21CB02-3E11

L22CB02-3E11

L21CB03-3E11

L22CB03-3E11

L21CB04-3E11

L22CB04-3E11

L21CB05-3E11

L22CB05-3E11

L21CB06-3E11

L22CB06-3E11

Complete units: Mushroom heads \varnothing 22MM

► MAINTAINED - NON-ILLUMINATED

 Technical Info (p.106)

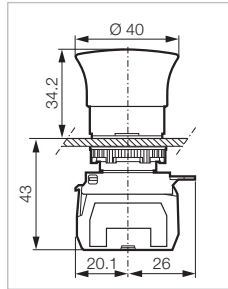
\varnothing 40 MUSHROOM

Push-pull to reset

Black Bezel
Part Number



L22DD01-3E01



- Red NC
- Red 2 NC
- Red NO + NC

WITH TEXT

- Red (STOP STOP STOP) NC
- Green NO
- Black NC
- Black NO
- Yellow NO

- L22DD01-3E01
- L22DD01-3E02
- L22DD01-3E11

L22DD01S-3E01

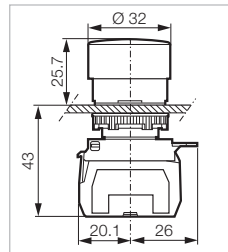
- L22DD02-3E10
- L22DD03-3E01
- L22DD03-3E10
- L22DD04-3E10

\varnothing 32 MUSHROOM

Push-turn to reset



L22EC01-3E01



- Red NC
- Red 2 NC
- Red NO + NC

- Green NO
- Black NC
- Black NO
- Yellow NO

- L22EC01-3E01
- L22EC01-3E02
- L22EC01-3E11

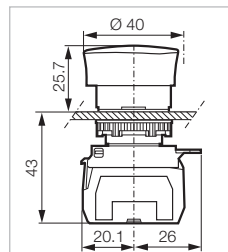
- L22EC02-3E10
- L22EC03-3E01
- L22EC03-3E10
- L22EC04-3E10

\varnothing 40 MUSHROOM

Push-turn to reset



L22ED01-3E11



- Red NC
- Red 2 NC
- Red NO + NC

WITH TEXT

- Red (STOP STOP STOP) NC
- Green NO
- Black NC
- Black NO
- Yellow NO

- L22ED01-3E01
- L22ED01-3E02
- L22ED01-3E11

L22ED01S-3E01

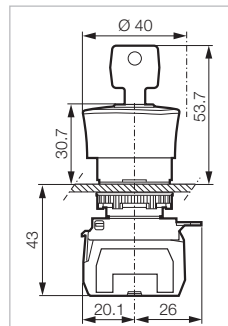
- L22ED02-3E10
- L22ED03-3E01
- L22ED03-3E10
- L22ED04-3E10

\varnothing 40 MUSHROOM

Key to reset



L22GM01-3E01



Supplied with 2 keys profile n°455

- Red NC
- Red 2 NC
- Red NO + NC

- L22GM01-3E01
- L22GM01-3E02
- L22GM01-3E11

Complete units: Mushroom heads \varnothing 22MM

 Technical Info (p.106)

► EMERGENCY STOP MAINTAINED - NON-ILLUMINATED

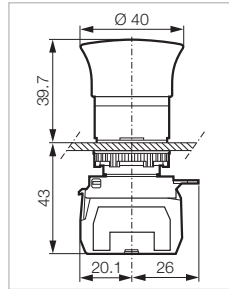
\varnothing 40 ISO13850

Push-pull to reset

Black Bezel
Part Number



L22DR01-3E11



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

- Red NC
- Red 2 NC
- Red NO + NC

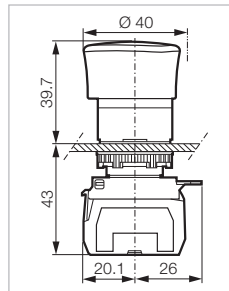
L22DR01-3E01
L22DR01-3E02
L22DR01-3E11

\varnothing 40 ISO13850

Push-turn to reset



L22ER01-3E11



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

- Red NC
- Red 2 NC
- Red NO + NC

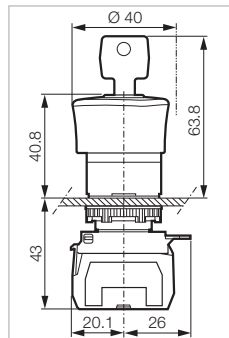
L22ER01-3E01
L22ER01-3E02
L22ER01-3E11

\varnothing 40 ISO13850

Key to reset



L22GR01-3E11



Double position indicator: head and collar
Compliant with the requirements of emergency stop:
ISO 13850
Supplied with 2 keys profile n°455

- Red NC
- Red 2 NC
- Red NO + NC

L22GR01-3E01
L22GR01-3E02
L22GR01-3E11

Complete units: Selector switches \varnothing 22mm

▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p.106)

WITH HANDLE

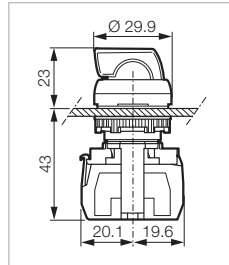
2 positions

Chrome Bezel
Part Number


Black Bezel
Part Number



L21KE03-1E10




MAINTAINED POSITIONS - 45°

● Red		NC	
● Green		NO	
● Black		NO	
● Black		2 NO	
● Black		NO + NC	
● Grey		NO	

L21KA01-1E01
L21KA02-1E10
L21KA03-1E10
L21KA03-3E20
L21KA03-3E11
L21KA08-1E10

L22KA01-1E01
L22KA02-1E10
L22KA03-1E10
L22KA03-3E20
L22KA03-3E11
L22KA08-1E10


SPRING RETURN - 45°

● Red		NC	
● Green		NO	
● Black		NO	
● Black		2 NO	
● Black		NO + NC	
● Grey		NO	

L21KB01-1E01
L21KB02-1E10
L21KB03-1E10
L21KB03-3E20
L21KB03-3E11
L21KB08-1E10

L22KB01-1E01
L22KB02-1E10
L22KB03-1E10
L22KB03-3E20
L22KB03-3E11
L22KB08-1E10

MAINTAINED POSITIONS - 90°

● Red		NC	
● Green		NO	
● Black		NO	
● Black		2 NO	
● Black		NO + NC	
● Grey		NO	

L21KE01-1E01
L21KE02-1E10
L21KE03-1E10
L21KE03-3E20
L21KE03-3E11
L21KE08-1E10

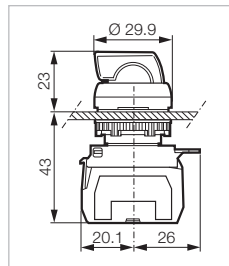
L22KE01-1E01
L22KE02-1E10
L22KE03-1E10
L22KE03-3E20
L22KE03-3E11
L22KE08-1E10

WITH HANDLE


3 positions



L21MA03-3E20




MAINTAINED POSITIONS - 45°

● Red		2 NO	
● Green		2 NO	
● Black		2 NO	
● Grey		2 NO	

L21MA01-3E20
L21MA02-3E20
L21MA03-3E20
L21MA08-3E20

L22MA01-3E20
L22MA02-3E20
L22MA03-3E20
L22MA08-3E20


SPRING RETURN - 45°

● Red		2 NO	
● Green		2 NO	
● Black		2 NO	
● Grey		2 NO	

L21MD01-3E20
L21MD02-3E20
L21MD03-3E20
L21MD08-3E20

L22MD01-3E20
L22MD02-3E20
L22MD03-3E20
L22MD08-3E20

MAINTAINED / SPRING RETURN - 45°

● Red		2 NO	
● Green		2 NO	
● Black		2 NO	
● Grey		2 NO	

L21MC01-3E20
L21MC02-3E20
L21MC03-3E20
L21MC08-3E20

L22MC01-3E20
L22MC02-3E20
L22MC03-3E20
L22MC08-3E20

Complete units: Selector switches \varnothing 22mm

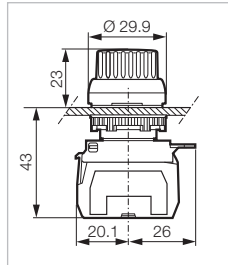
▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p.106)

WITH KNOB **2 and 3 positions** Chrome Bezel
Part Number Black Bezel
Part Number



L21UA03-3E20



MAINTAINED POSITIONS - 45°

- Black
- Black
- Black



NO
2 NO
NO + NC

L21TA03-1E10
L21TA03-3E20
L21TA03-3E11

L22TA03-1E10
L22TA03-3E20
L22TA03-3E11

MAINTAINED POSITIONS - 45°

- Black



2 NO

L21UA03-3E20

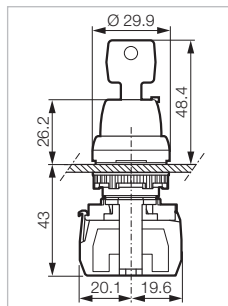
L22UA03-3E20

WITH KEY

2 positions



L21LA00-1E10



Supplied with 2 keys profile n°455

MAINTAINED POSITIONS - 45°

Key free in position 0

- Black
- Black
- Black



NO
2 NO
NO + NC

L21LA00-1E10
L21LA00-3E20
L21LA00-3E11

L22LA00-1E10
L22LA00-3E20
L22LA00-3E11

SPRING RETURN - 45°

Key free in position 0

- Black
- Black
- Black



NO
2 NO
NO + NC

L21LB00-1E10
L21LB00-3E20
L21LB00-3E11

L22LB00-1E10
L22LB00-3E20
L22LB00-3E11

MAINTAINED - 90°

Key free in both positions

- Black
- Black
- Black



NO
2 NO
NO + NC

L21LG00-1E10
L21LG00-3E20
L21LG00-3E11

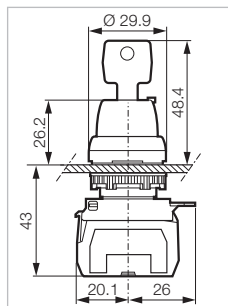
L22LG00-1E10
L22LG00-3E20
L22LG00-3E11

WITH KEY

3 positions



L21NA00-3E20



Supplied with 2 keys profile n°455

MAINTAINED POSITIONS - 45°

Key free in position 0

- Black



2 NO

L21NA00-3E20

L22NA00-3E20

SPRING RETURN - 45°

Key free in position 0

- Black



2 NO

L21ND00-3E20

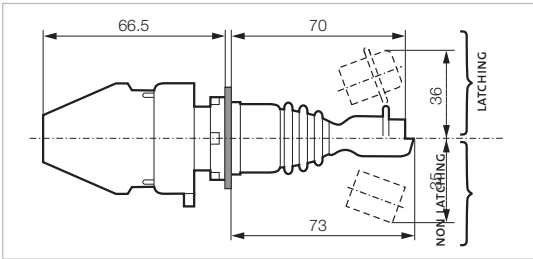
L22ND00-3E20

Complete units: Joysticks ϕ 22MM

▶ JOYSTICK SWITCHES - NON ILLUMINATED

 Technical Info (p.106)

HEAD, CLIP AND MODULE(S)



All contacts are open in the center position (0). Complete units shown feature one or two independent contact closed in each position A,B,C, and D.



LM2F-3M2

HEAD DOES NOT LOCK IN CENTER POSITION 0

2 POSITIONS WITH OFF

		# Contacts Closed Per Position	Total # Contacts	Part Number
maintained	A ↓ 0 ↑ B	1	2	LM2F-3M2
		2	4	LM2F-3M4
spring return	A ↓ 0 ↑ B	1	2	LM2A-3M2
		2	4	LM2A-3M4

4 POSITIONS WITH OFF

maintained	A ↓ 0 ↑ B	1	4	LM4F-3M4
	C ← 0 → D	2	8	LM4F-5M8
spring-return	A ↓ 0 ↑ B	1	4	LM4A-3M4
	C ← 0 → D	2	8	LM4A-5M8



LMV4F-5M8

HEAD LOCKS IN CENTER POSITION 0

2 POSITIONS WITH OFF

maintained	A ↓ 0 ↑ B	1	2	LMV2F-3M2
		2	4	LMV2F-3M4
spring return	A ↓ 0 ↑ B	1	2	LMV2A-3M2
		2	4	LMV2A-3M4

4 POSITIONS WITH OFF

maintained	A ↓ 0 ↑ B	1	4	LMV4F-3M4
	C ← 0 → D	2	8	LMV4F-5M8
spring return	A ↓ 0 ↑ B	1	4	LMV4A-3M4
	C ← 0 → D	2	8	LMV4A-5M8

Complete units: Part Numbering System

► ILLUMINATED COMPLETE UNITS

L21AH20 - **3** **EA** **G** **M** **1** **1** **Y7**
a b c d e f g

Part number of illuminated operator head.
 See pages 48 to 56 for illuminated operator heads.

a

CLIP	
Code	Description
1	single module
3	three modules
4	three modules (when using 33E11 contact blocks)
5	five modules

b

TERMINAL STYLE	
Code	Description
EA	Screw and Clamp
EDA	Stab (Quick Connect)
EPA	PCB
ERA	Plug In

c

LED COLOR	
Code	Description
R	Red
G	Green
Y	Yellow
W	White
B	Blue

d

LED VOLTAGE	
Code	Description
L	12/24 Vac/dc
L4	48 Vac/dc
M	130 Vac
H	230 Vac

e

N.O. (NORMALLY OPEN) CONTACTS	
Code	Description
o	No Contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.

f

N.C. (NORMALLY CLOSED) CONTACTS	
Code	Description
o	No Contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.

g

SPECIALTY BLOCKS	
Code	Description
C	Late Break N.C. (Screw and Clamp terminals only)
Y7	Gold Plated Contacts (Screw and Clamp or PCB terminals only)

Complete units: Pushbuttons \varnothing 22mm

► SPRING RETURN - ILLUMINATED

 Technical Info (p.106)

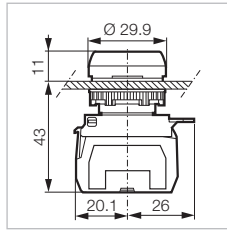
FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L21AH20-3EAGL11



LED blocks

12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21AH10-3EARL11
L21AH20-3EAGL11
L21AH40-3EAYL11
L21AH50-3EAWL11
L21AH60-3EABL11

L22AH10-3EARL11
L22AH20-3EAGL11
L22AH40-3EAYL11
L22AH50-3EAWL11
L22AH60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

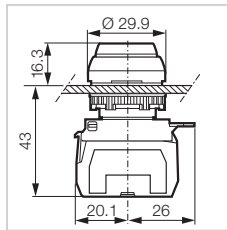
L21AH10-3EARM11
L21AH20-3EAGM11
L21AH40-3EAYM11
L21AH50-3EAWM11
L21AH60-3EABM11

L22AH10-3EARM11
L22AH20-3EAGM11
L22AH40-3EAYM11
L22AH50-3EAWM11
L22AH60-3EABM11

PROJECTING



L21AK40-3EAYM11



LED blocks

12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21AK10-3EARL11
L21AK20-3EAGL11
L21AK40-3EAYL11
L21AK50-3EAWL11
L21AK60-3EABL11

L22AK10-3EARL11
L22AK20-3EAGL11
L22AK40-3EAYL11
L22AK50-3EAWL11
L22AK60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

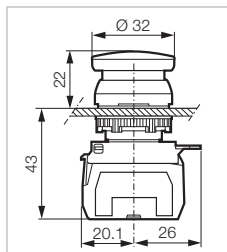
L21AK10-3EARM11
L21AK20-3EAGM11
L21AK40-3EAYM11
L21AK50-3EAWM11
L21AK60-3EABM11

L22AK10-3EARM11
L22AK20-3EAGM11
L22AK40-3EAYM11
L22AK50-3EAWM11
L22AK60-3EABM11

\varnothing 32 MUSHROOM



L21AL10-3EARL11



LED blocks

12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21AL10-3EARL11
L21AL20-3EAGL11
L21AL40-3EAYL11
L21AL50-3EAWL11
L21AL60-3EABL11

L22AL10-3EARL11
L22AL20-3EAGL11
L22AL40-3EAYL11
L22AL50-3EAWL11
L22AL60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21AL10-3EARM11
L21AL20-3EAGM11
L21AL40-3EAYM11
L21AL50-3EAWM11
L21AL60-3EABM11

L22AL10-3EARM11
L22AL20-3EAGM11
L22AL40-3EAYM11
L22AL50-3EAWM11
L22AL60-3EABM11

Complete units: Pushbuttons ϕ 22MM

► SPRING RETURN - ILLUMINATED

 Technical Info (p. 106)

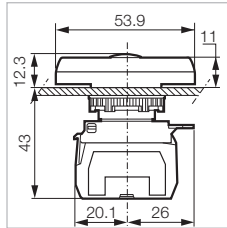
TWIN TOUCH - FLUSH-FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L61QH21-3EAWM11



Center part illuminated - White LED Block (other colors available)



12/24 VAC/DC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QH21-3EAWL11	L62QH21-3EAWL11

12/24 VAC/DC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QH21A-3EAWL11	L62QH21A-3EAWL11

130 VAC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QH21-3EAWM11	L62QH21-3EAWM11

130 VAC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QH21A-3EAWM11	L62QH21A-3EAWM11

230 VAC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QH21-3EAWH11	L62QH21-3EAWH11

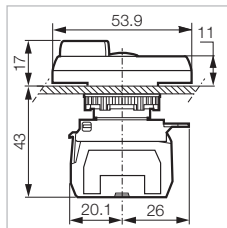
230 VAC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QH21A-3EAWH11	L62QH21A-3EAWH11

TWIN TOUCH - FLUSH-PROJECTING





L61QK21A-3EAWL11



Center part illuminated - White LED Block (other colors available)

12/24 VAC/DC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QK21-3EAWL11	L62QK21-3EAWL11

12/24 VAC/DC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QK21A-3EAWL11	L62QK21A-3EAWL11

130 VAC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QK21-3EAWM11	L62QK21-3EAWM11

130 VAC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QK21A-3EAWM11	L62QK21A-3EAWM11

230 VAC - WITH INTERNATIONAL SYMBOLS

	Green	NO		
	Red	NC	L61QK21-3EAWH11	L62QK21-3EAWH11

230 VAC - WITH TEXT

	Green (START)	NO		
	Red (STOP)	NC	L61QK21A-3EAWH11	L62QK21A-3EAWH11

Complete units: Pushbuttons \varnothing 22mm

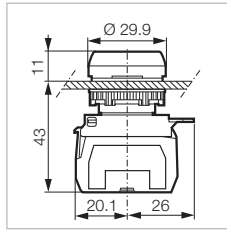
► MAINTAINED - ILLUMINATED

 Technical Info (p.106)

FLUSH



L21CH20-3EAGL1



LED blocks

12/24 Vac/Dc

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

Chrome Bezel
Part Number

Black Bezel
Part Number

L21CH10-3EARL11
L21CH20-3EAGL11
L21CH40-3EAYL11
L21CH50-3EAWL11
L21CH60-3EABL11

L22CH10-3EARL11
L22CH20-3EAGL11
L22CH40-3EAYL11
L22CH50-3EAWL11
L22CH60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21CH10-3EARM11
L21CH20-3EAGM11
L21CH40-3EAYM11
L21CH50-3EAWM11
L21CH60-3EABM11

L22CH10-3EARM11
L22CH20-3EAGM11
L22CH40-3EAYM11
L22CH50-3EAWM11
L22CH60-3EABM11

230 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

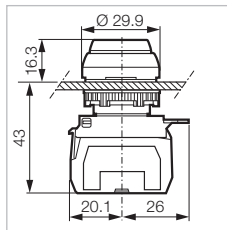
L21CH10-3EARH11
L21CH20-3EAGH11
L21CH40-3EAYH11
L21CH50-3EAWH11
L21CH60-3EABH11

L22CH10-3EARH11
L22CH20-3EAGH11
L22CH40-3EAYH11
L22CH50-3EAWH11
L22CH60-3EABH11

PROJECTING



L21CK40-3EAYL11



LED blocks

12/24 Vac/Dc

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21CK10-3EARL11
L21CK20-3EAGL11
L21CK40-3EAYL11
L21CK50-3EAWL11
L21CK60-3EABL11

L22CK10-3EARL11
L22CK20-3EAGL11
L22CK40-3EAYL11
L22CK50-3EAWL11
L22CK60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21CK10-3EARM11
L21CK20-3EAGM11
L21CK40-3EAYM11
L21CK50-3EAWM11
L21CK60-3EABM11

L22CK10-3EARM11
L22CK20-3EAGM11
L22CK40-3EAYM11
L22CK50-3EAWM11
L22CK60-3EABM11

230 Vac

● Red	NO+NC
● Green	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

L21CK10-3EARH11
L21CK20-3EAGH11
L21CK40-3EAYH11
L21CK50-3EAWH11
L21CK60-3EABH11

L22CK10-3EARH11
L22CK20-3EAGH11
L22CK40-3EAYH11
L22CK50-3EAWH11
L22CK60-3EABH11

Complete units: Pushbuttons \varnothing 22MM

 Technical Info (p.106)

► MAINTAINED - ILLUMINATED

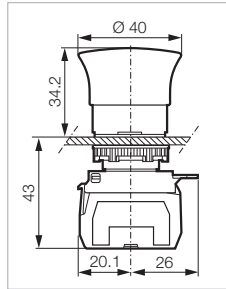
\varnothing 40 MUSHROOM

Push-pull to reset

Black Bezel
Part Number



L22DM10-3EARM11



Red LED block

12/24 Vac/Dc

- Red NC
- Red 2 NC
- Red NO + NC

L22DM10-3EARL01
L22DM10-3EARL02
L22DM10-3EARL11

130 Vac

- Red NC
- Red 2 NC
- Red NO + NC

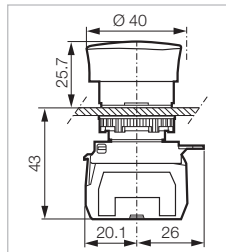
L22DM10-3EARM01
L22DM10-3EARM02
L22DM10-3EARM11

\varnothing 40 MUSHROOM

Push-turn to reset



L22EM10-3EARL02



Red LED block

12/24 Vac/Dc

- Red NC
- Red 2 NC
- Red NO + NC

L22EM10-3EARL01
L22EM10-3EARL02
L22EM10-3EARL11

130 Vac

- Red NC
- Red 2 NC
- Red NO + NC

L22EM10-3EARM01
L22EM10-3EARM02
L22EM10-3EARM11

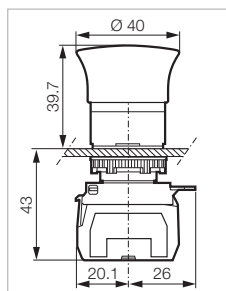
► EMERGENCY STOP MAINTAINED - ILLUMINATED

\varnothing 40 ISO 13850

Push-pull to reset



L22DN10-3EARM02



Head position visible from the side with yellow collar Compliant with the requirements of emergency stop: \varnothing ISO 13850

Red LED block

12/24 Vac/Dc

- Red NC
- Red 2 NC
- Red NO + NC

L22DN10-3EARL01
L22DN10-3EARL02
L22DN10-3EARL11

130 Vac




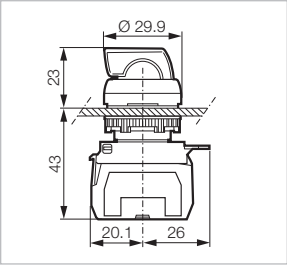




- Red NC
- Red 2 NC
- Red NO + NC

L22DN10-3EARM01
L22DN10-3EARM02
L22DN10-3EARM11

Complete units: Selector switches \varnothing 22mm

▶ SELECTOR SWITCHES - ILLUMINATED

 Technical Info (p.106)

WITH HANDLE	2 positions		Chrome Bezel Part Number	Black Bezel Part Number	
 <p>L21KG10-3EARL11</p>	LED COLOR / HANDLE COLOR MAINTAINED POSITIONS - 45° 12/24 Vac/Dc <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KG10-3EARL11 L21KG20-3EAGL11 L21KG30-3EAWL11 L21KG30-3EAYL11 L21KG30-3EABL11	L22KG10-3EARL11 L22KG20-3EAGL11 L22KG30-3EAWL11 L22KG30-3EAYL11 L22KG30-3EABL11
	130 Vac <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KG10-3EARM11 L21KG20-3EAGM11 L21KG30-3EAWM11 L21KG30-3EAYM11 L21KG30-3EABM11	L22KG10-3EARM11 L22KG20-3EAGM11 L22KG30-3EAWM11 L22KG30-3EAYM11 L22KG30-3EABM11
	SPRING RETURN - 45° 12/24 Vac/Dc <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KH10-3EARL11 L21KH20-3EAGL11 L21KH30-3EAWL11 L21KH30-3EAYL11 L21KH30-3EABL11	L22KH10-3EARL11 L22KH20-3EAGL11 L22KH30-3EAWL11 L22KH30-3EAYL11 L22KH30-3EABL11
	130 Vac <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KH10-3EARM11 L21KH20-3EAGM11 L21KH30-3EAWM11 L21KH30-3EAYM11 L21KH30-3EABM11	L22KH10-3EARM11 L22KH20-3EAGM11 L22KH30-3EAWM11 L22KH30-3EAYM11 L22KH30-3EABM11
	MAINTAINED POSITIONS - 90° 12/24 Vac/Dc <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KL10-3EARL11 L21KL20-3EAGL11 L21KL30-3EAWL11 L21KL30-3EAYL11 L21KL30-3EABL11	L22KL10-3EARL11 L22KL20-3EAGL11 L22KL30-3EAWL11 L22KL30-3EAYL11 L22KL30-3EABL11
	130 Vac <ul style="list-style-type: none"> ● Red / Red ● Green / Green ○ White / Black ● Yellow / Black ● Blue / Black 		NO + NC NO + NC NO + NC NO + NC NO + NC	L21KL10-3EARM11 L21KL20-3EAGM11 L21KL30-3EAWM11 L21KL30-3EAYM11 L21KL30-3EABM11	L22KL10-3EARM11 L22KL20-3EAGM11 L22KL30-3EAWM11 L22KL30-3EAYM11 L22KL30-3EABM11

Complete units: Selector switches ϕ 22mm

▶ SELECTOR SWITCHES - ILLUMINATED

 Technical Info (p.106)

WITH HANDLE

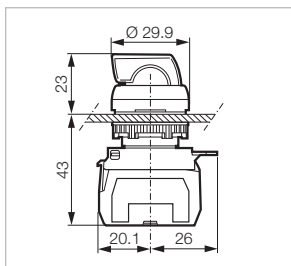
3 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21ME20-3EAGL20



LED COLOR / HANDLE COLOR

MAINTAINED POSITIONS - 45°

12/24 Vac/Dc

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black



- 2 NO
- 2 NO
- 2 NO
- 2 NO
- 2 NO

- L21ME10-3EARL20
- L21ME20-3EAGL20
- L21ME30-3EAWL20
- L21ME30-3EAYL20
- L21ME30-3EABL20

- L22ME10-3EARL20
- L22ME20-3EAGL20
- L22ME30-3EAWL20
- L22ME30-3EAYL20
- L22ME30-3EABL20

130 Vac/Dc

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black

- 2 NO
- 2 NO
- 2 NO
- 2 NO
- 2 NO

- L21ME10-3EARM20
- L21ME20-3EAGM20
- L21ME30-3EAWM20
- L21ME30-3EAYM20
- L21ME30-3EABM20

- L22ME10-3EARM20
- L22ME20-3EAGM20
- L22ME30-3EAWM20
- L22ME30-3EAYM20
- L22ME30-3EABM20

SPRING RETURN - 45°

12/24 Vac/Dc

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black



- 2 NO
- 2 NO
- 2 NO
- 2 NO
- 2 NO

- L21MH10-3EARL20
- L21MH20-3EAGL20
- L21MH30-3EAWL20
- L21MH30-3EAYL20
- L21MH30-3EABL20

- L22MH10-3EARL20
- L22MH20-3EAGL20
- L22MH30-3EAWL20
- L22MH30-3EAYL20
- L22MH30-3EABL20

130 Vac

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black

- 2 NO
- 2 NO
- 2 NO
- 2 NO
- 2 NO

- L21MH10-3EARM20
- L21MH20-3EAGM20
- L21MH30-3EAWM20
- L21MH30-3EAYM20
- L21MH30-3EABM20

- L22MH10-3EARM20
- L22MH20-3EAGM20
- L22MH30-3EAWM20
- L22MH30-3EAYM20
- L22MH30-3EABM20

MAINTAINED / SPRING RETURN - 45°

12/24 Vac/Dc

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black



- NO + NC
- NO + NC
- NO + NC
- NO + NC
- NO + NC

- L21MG10-3EARL11
- L21MG20-3EAGL11
- L21MG30-3EAWL11
- L21MG30-3EAYL11
- L21MG30-3EABL11

- L22MG10-3EARL11
- L22MG20-3EAGL11
- L22MG30-3EAWL11
- L22MG30-3EAYL11
- L22MG30-3EABL11

130 Vac

- Red / Red
- Green / Green
- White / Black
- Yellow / Black
- Blue / Black

- NO + NC
- NO + NC
- NO + NC
- NO + NC
- NO + NC

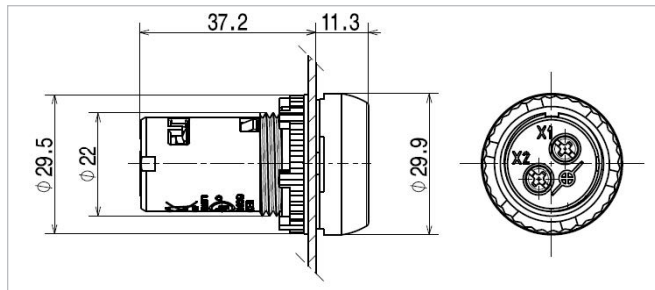
- L21MG10-3EARM11
- L21MG20-3EAGM11
- L21MG30-3EAWM11
- L21MG30-3EAYM11
- L21MG30-3EABM11

- L22MG10-3EARM11
- L22MG20-3EAGM11
- L22MG30-3EAWM11
- L22MG30-3EAYM11
- L22MG30-3EABM11

Complete units: Pilot lights \varnothing 22MM

► PILOT LIGHTS

ONE-PIECE WITH INTEGRATED LED



24 Vac/Dc

- Red
- Green
- Yellow
- White
- Blue

Part Number

- L20SC10L
- L20SC20L
- L20SC40L
- L20SC50L
- L20SC60L

With Text or Symbol Part Number **

- L20SC31L [] [] [] []
- L20SC32L [] [] [] []
- L20SC34L [] [] [] []
- L20SC35L [] [] [] []
- L20SC36L [] [] [] []

130 Vac/Dc

- Red
- Green
- Yellow
- White
- Blue

- L20SC10M
- L20SC20M
- L20SC40M
- L20SC50M
- L20SC60M

- L20SC31M [] [] [] []
- L20SC32M [] [] [] []
- L20SC34M [] [] [] []
- L20SC35M [] [] [] []
- L20SC36M [] [] [] []

230 Vac/Dc*

- Red
- Green
- Yellow
- White
- Blue

- L20SC10H
- L20SC20H
- L20SC40H
- L20SC50H
- L20SC60H

- L20SC31H [] [] [] []
- L20SC32H [] [] [] []
- L20SC34H [] [] [] []
- L20SC35H [] [] [] []
- L20SC36H [] [] [] []

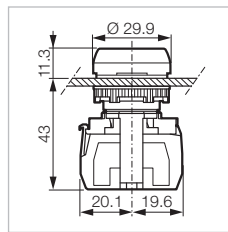
* 230V DC rating is Self-Declared.

** Code to be added to end of part number.
See p. 82 to 85 for standard text and symbol options.
For custom text or symbol please contact us.

HEAD, CLIP AND LED MODULE



L20SE20-1EAGM



12/24 Vac/Dc

- Red
- Green
- Yellow
- White
- Blue

1 POSITION CLIP Part Number

- L20SE10-1EARL
- L20SE20-1EAGL
- L20SE40-1EAYL
- L20SE50-1EAWL
- L20SE60-1EABL

3 POSITION CLIP Part Number

- L20SE10-3EARL
- L20SE20-3EAGL
- L20SE40-3EAYL
- L20SE50-3EAWL
- L20SE60-3EABL

130Vac

- Red
- Green
- Yellow
- White
- Blue

- L20SE10-1EARM
- L20SE20-1EAGM
- L20SE40-1EAYM
- L20SE50-1EAWM
- L20SE60-1EABM

- L20SE10-3EARM
- L20SE20-3EAGM
- L20SE40-3EAYM
- L20SE50-3EAWM
- L20SE60-3EABM

230Vac

- Red
- Green
- Yellow
- White
- Blue

- L20SE10-1EARH
- L20SE20-1EAGH
- L20SE40-1EAYH
- L20SE50-1EAWH
- L20SE60-1EABH


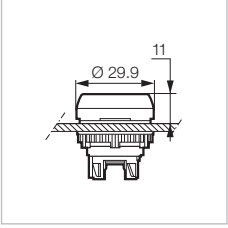


- L20SE10-3EARH
- L20SE20-3EAGH
- L20SE40-3EAYH
- L20SE50-3EAWH
- L20SE60-3EABH

Operator Heads: Ø 22MM

► SPRING RETURN - NON-ILLUMINATED



Technical Info (p.106)

FLUSH		Chrome Bezel Part Number	Black Bezel Part Number
		<ul style="list-style-type: none"> ● Red L21AA01 ● Green L21AA02 ● Black L21AA03 ● Yellow L21AA04 ○ White L21AA05 ● Blue L21AA06 	<ul style="list-style-type: none"> L22AA01 L22AA02 L22AA03 L22AA04 L22AA05 L22AA06
L21AA02		WITH INTERNATIONAL SYMBOL	
		<ul style="list-style-type: none"> ● Red L21AA81 ● Green L21AA82 ● Black L21AA83 	<ul style="list-style-type: none"> L22AA81 L22AA82 L22AA83
L22AA34328		WITH TEXT OR SYMBOL (see p. 80 to 83) Code to be added at the end of the part number. For custom text or symbol please contact us.	
		<ul style="list-style-type: none"> ● Red L21AA31 ● Green L21AA32 ● Black L21AA33 ● Yellow L21AA34 ○ White L21AA35 ● Blue L21AA36 	<ul style="list-style-type: none"> L22AA31 L22AA32 L22AA33 L22AA34 L22AA35 L22AA36
L21AA00		WITHOUT CAP	
		Pushbutton caps (see p. 86)	

Operator Heads: Ø 22MM

► **SPRING RETURN - NON-ILLUMINATED**



Technical Info (p.106)

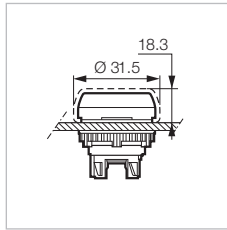
FLUSH WITH SHROUD

Reinforced degree of protection: IP 67

Black Bezel
Part Number



L22AM01A



Supplied with flat shroud

TRANSPARENT SHROUD

- Red
- Green
- Black
- Yellow
- White
- Blue

Components
Operator + Shroud

- L22AA01 + LWA0255
- L22AA02 + LWA0255
- L22AA03 + LWA0255
- L22AA04 + LWA0255
- L22AA05 + LWA0255
- L22AA06 + LWA0255

- L22AM01A**
- L22AM02A**
- L22AM03A**
- L22AM04A**
- L22AM05A**
- L22AM06A**

WITH TEXT OR SYMBOL (see p. 82 to 85)

Code to be added at the end of the part number.

For custom text or symbol please contact us.

- Red
- Green
- Black
- Yellow
- White
- Blue

- L22AA31[] [] + LWA0255
- L22AA32[] [] + LWA0255
- L22AA33[] [] + LWA0255
- L22AA34[] [] + LWA0255
- L22AA35[] [] + LWA0255
- L22AA36[] [] + LWA0255

- L22AM31[] []**
- L22AM32[] []**
- L22AM33[] []**
- L22AM34[] []**
- L22AM35[] []**
- L22AM36[] []**

COLORED SHROUD

- Red
- Green
- Black

- L22AA01 + LWA0251
- L22AA02 + LWA0252
- L22AA03 + LWA0253

- L22AM01**
- L22AM02**
- L22AM03**

Operator Heads: \varnothing 22MM

► SPRING RETURN - NON-ILLUMINATED



Technical Info (p.106)

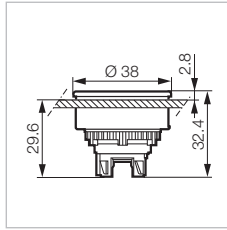
SUPER FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L23AA02



Metal chrome bezel
Panel cut-out \varnothing 30mm

- Red L23AA01
- Green L23AA02
- Black L23AA03
- Yellow L23AA04
- White L23AA05
- Blue L23AA06

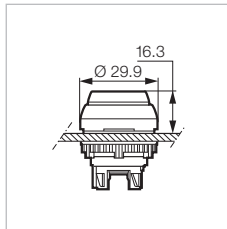
WITH INTERNATIONAL SYMBOL

- Red L23AA81
- Green L23AA82

PROJECTING



L21AB01



- Red L21AB01 L22AB01
- Green L21AB02 L22AB02
- Black L21AB03 L22AB03
- Yellow L21AB04 L22AB04
- White L21AB05 L22AB05
- Blue L21AB06 L22AB06

WITH INTERNATIONAL SYMBOL

- Red L21AB01B L22AB01B

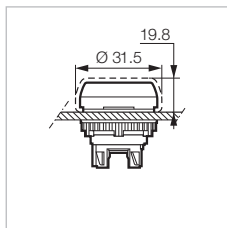
PROJECTING WITH SHROUD

Reinforced degree of protection: IP 67

Black Bezel
Part Number



L22AX04



Supplied with domed shroud

TRANSPARENT SHROUD

Components
Operator + Shroud

- Red L22AB01 + LWA0228 L22AX01
- Green L22AB02 + LWA0228 L22AX02
- Black L22AB03 + LWA0228 L22AX03
- Yellow L22AB04 + LWA0228 L22AX04
- White L22AB05 + LWA0228 L22AX05
- Blue L22AB06 + LWA0228 L22AX06

COLORED SHROUD

- Red L22AB01 + LWA0203 L22AW01
- Green L22AB02 + LWA0204 L22AW02
- Black L22AB03 + LWA0205 L22AW03

Operator Heads: ϕ 22MM

► SPRING RETURN - NON-ILLUMINATED

 Technical Info (p.106)

FLUSH-FLUSH

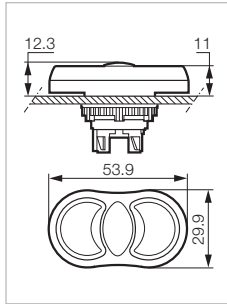
Twin touch - degree of protection: IP66

Chrome Bezel
Part Number

Black Bezel
Part Number



L61QA21



WITH INTERNATIONAL SYMBOLS

-  Green
-  Red

L61QA21



L62QA21

-  White
-  Black

L61QA53

L62QA53



WITH TEXT

-  Green (START)
-  Red (STOP)

L61QA21B

L62QA21B

WITH SYMBOLS OR ARROWS

-  Green \triangleleft (symbol for OPEN)
-  Green \triangleright (symbol for CLOSE)

L61QA22

L62QA22

-  Green
-  Green

L61QA22K

L62QA22K

-  Black
-  Black

L61QA33C

L62QA33C

BLANK

-  Green
-  Red

L61QA21V

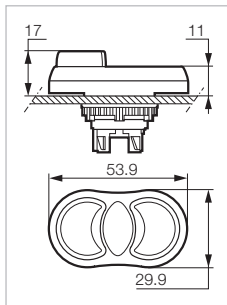
L62QA21V

FLUSH-PROJECTING

Twin touch - degree of protection: IP66



L61QB21





WITH INTERNATIONAL SYMBOLS

-  Green
-  Red

L61QB21

L62QB21

WITH TEXT

-  Green (START)
-  Red (STOP)

L61QB21B

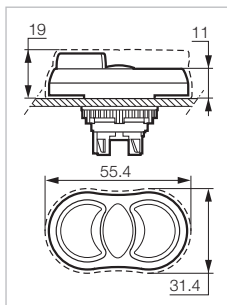
L62QB21B

FLUSH-PROJECTING WITH SHROUD

Twin touch - reinforced degree of protection: IP67



L61QM21



Supplied with transparent shroud



WITH INTERNATIONAL SYMBOLS

-  Green
-  Red

L61QM21

L62QM21

WITH TEXT

-  Green (START)
-  Red (STOP)

L61QM21B

L62QM21B

Operator Heads: \varnothing 22MM

► SPRING RETURN - NON-ILLUMINATED



Technical Info (p.106)

FLUSH-PROJECTING-FLUSH

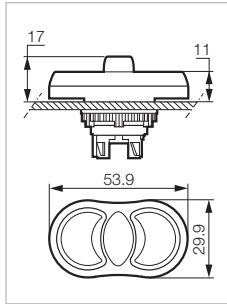
Twin touch - degree of protection: IP66

Chrome Bezel Part Number

Black Bezel Part Number



L61BA22



WITH ARROWS AND TEXT

- Green
- Red (STOP)
- Green

L61BA22

L62BA22

- Green
- Red (STOP)
- Green

L61BA22B

L62BA22B

WITH TEXT

- Green (UP)
- Red (STOP)
- Green (DOWN)

L61BA22G

L62BA22G

- Green (OPEN)
- Red (STOP)
- Green (CLOSE)

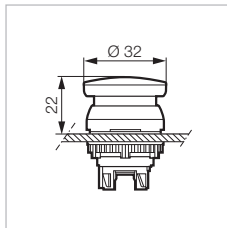
L61BA22F

L62BA22F

\varnothing 32 MUSHROOM



L21AC03



- Red
- Green
- Black
- Yellow

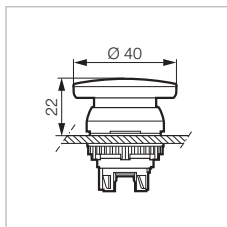
L21AC01
L21AC02
L21AC03
L21AC04

L22AC01
L22AC02
L22AC03
L22AC04

\varnothing 40 MUSHROOM



L21AD01



- Red
- Green
- Black
- Yellow
- Blue

L21AD01
L21AD02
L21AD03
L21AD04
L21AD06

L22AD01
L22AD02
L22AD03
L22AD04
L22AD06

WITH TEXT

- Red (STOP STOP STOP)

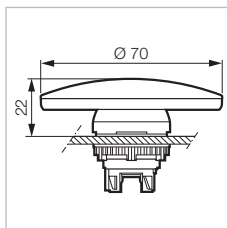
L21AD01S

L22AD01S

\varnothing 70 MUSHROOM



L21AE03



- Red
- Black

L21AE01
L21AE03

L22AE01
L22AE03

Operator Heads: \varnothing 22MM

► MAINTAINED - NON-ILLUMINATED



Technical Info (p.106)

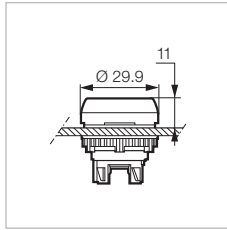
FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L21CA01



- Red
- Green
- Black
- Yellow
- White
- Blue

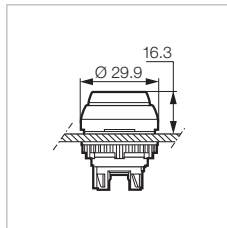
- L21CA01
- L21CA02
- L21CA03
- L21CA04
- L21CA05
- L21CA06

- L22CA01
- L22CA02
- L22CA03
- L22CA04
- L22CA05
- L22CA06

PROJECTING



L21CB02



- Red
- Green
- Black
- Yellow
- White
- Blue

- L21CB01
- L21CB02
- L21CB03
- L21CB04
- L21CB05
- L21CB06

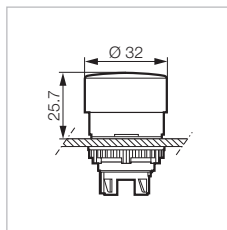
- L22CB01
- L22CB02
- L22CB03
- L22CB04
- L22CB05
- L22CB06

\varnothing 32 MUSHROOM

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

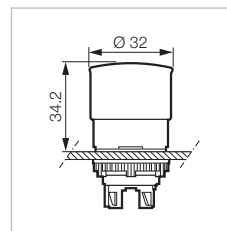
- L22EC01
- L22EC02
- L22EC03
- L22EC04

\varnothing 32 MUSHROOM

Push-pull to reset



L22DC01



- Red

- L22DC01

Operator Heads: \varnothing 22MM

► MAINTAINED - NON-ILLUMINATED



Technical Info (p.106)

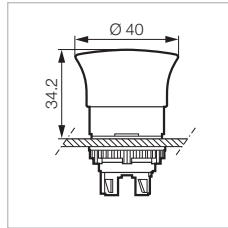
\varnothing 40 - MUSHROOM

Push-pull to reset

Black Bezel
Part Number



L22DD01



- Red
- Green
- Black
- Yellow

L22DD01
L22DD02
L22DD03
L22DD04

WITH TEXT

- Red (STOP STOP STOP)

L22DD01S

WITH INTERNATIONAL SYMBOL

- Red

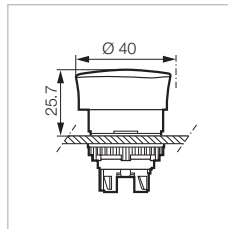
L22DD01C

\varnothing 40 MUSHROOM

Push-turn to reset



L22ED01



- Red
- Green
- Black
- Yellow

L22ED01
L22ED02
L22ED03
L22ED04

WITH TEXT

- Red (STOP STOP STOP)

L22ED01S

WITH WHITE ARROWS

- Red

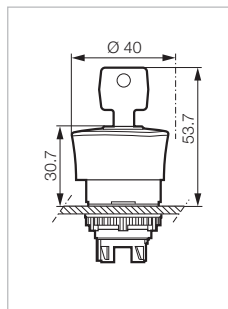
L22ED01G

\varnothing 40 - MUSHROOM

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

L22GM01

Operator Heads: \varnothing 22MM

► EMERGENCY STOP MAINTAINED - NON-ILLUMINATED



Technical Info (p.106)

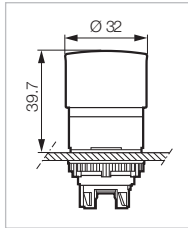
Black Bezel
Part Number

\varnothing 32 ISO 13850

Push-pull



L22DQ01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

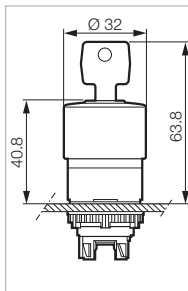
L22DQ01

\varnothing 32 ISO 13850

Key to reset



L22GQ01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

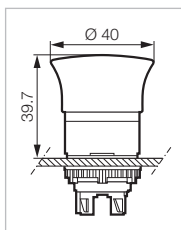
L22GQ01

\varnothing 40 ISO 13850

Push-pull to reset



L22DR01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

L22DR01

Operator Heads: \varnothing 22MM

► EMERGENCY STOP MAINTAINED - NON-ILLUMINATED



Technical Info (p.106)

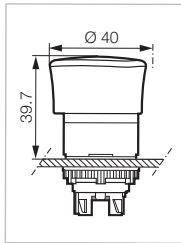
\varnothing 40 ISO 13850

Push-turn to reset

Black Bezel
Part Number



L22ER01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

L22ER01

WITH TEXT

● Red (EMO)

L22ER01F

WITH SYMBOL IEC 60947-5-5 / ISO 13850



L22ER01K



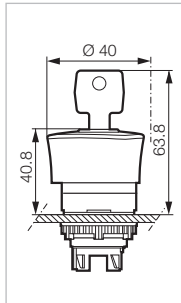
L22ER01K

\varnothing 40 ISO 13850

Key to reset



L22GR01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

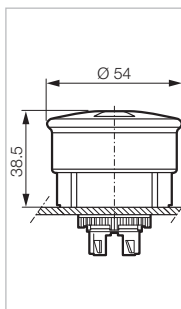
L22GR01

\varnothing 54 ISO 13850

Push-pull to reset with flag indicator



L22DU01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red - (O- I)

L22DU01A

● Red - (STOP - I)

L22DU01

Operator Heads: ϕ 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED



Technical Info (p.106)

WITH HANDLE

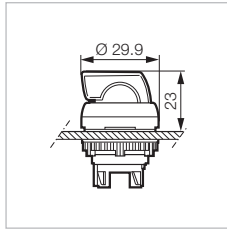
2 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21KA03



MAINTAINED POSITIONS - 45°

- Red
- Green
- Black
- Grey



L21KA01
L21KA02
L21KA03
L21KA08

L22KA01
L22KA02
L22KA03
L22KA08

SPRING RETURN - 45°

- Red
- Green
- Black
- Grey



L21KB01
L21KB02
L21KB03
L21KB08

L22KB01
L22KB02
L22KB03
L22KB08

MAINTAINED POSITIONS - 45°

- Red
- Green
- Black
- Grey



L21KC01
L21KC02
L21KC03
L21KC08

L22KC01
L22KC02
L22KC03
L22KC08

SPRING RETURN - 45°

- Red
- Green
- Black
- Grey



L21KD01
L21KD02
L21KD03
L21KD08

L22KD01
L22KD02
L22KD03
L22KD08

MAINTAINED POSITIONS - 90°

- Red
- Green
- Black
- Grey



L21KE01
L21KE02
L21KE03
L21KE08

L22KE01
L22KE02
L22KE03
L22KE08

MAINTAINED POSITIONS - 90°

- Red
- Green
- Black
- Grey



L21KF01
L21KF02
L21KF03
L21KF08

L22KF01
L22KF02
L22KF03
L22KF08

Operator Heads: \varnothing 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED



Technical Info (p.106)

WITH LEVER HANDLE

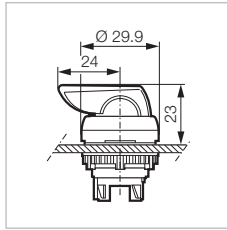
2 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21KP03



MAINTAINED POSITIONS - 45°

- Red
- Green
- Black
- Grey



L21KP01
L21KP02
L21KP03
L21KP08

L22KP01
L22KP02
L22KP03
L22KP08

SPRING RETURN - 45°

- Red
- Green
- Black



L21KQ01
L21KQ02
L21KQ03

L22KQ01
L22KQ02
L22KQ03

MAINTAINED POSITIONS - 45°

- Red
- Green
- Black



L21KR01
L21KR02
L21KR03

L22KR01
L22KR02
L22KR03

SPRING RETURN - 45°

- Red
- Green
- Black



L21KS01
L21KS02
L21KS03

L22KS01
L22KS02
L22KS03

MAINTAINED POSITIONS - 90°

- Red
- Green
- Black



L21KT01
L21KT02
L21KT03

L22KT01
L22KT02
L22KT03

MAINTAINED POSITIONS - 90°

- Red
- Green
- Black



L21KU01
L21KU02
L21KU03


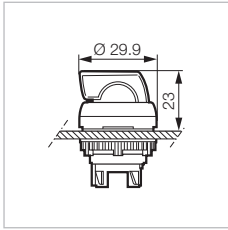






L22KU01
L22KU02
L22KU03

Operator Heads: \varnothing 22mm

▶ SELECTOR SWITCHES - NON-ILLUMINATED



Technical Info (p.106)

WITH HANDLE	3 positions	Chrome Bezel Part Number	Black Bezel Part Number
 <p>L21MA03</p>		MAINTAINED POSITIONS - 45°	
		<ul style="list-style-type: none"> ● Red ● Green ● Black ● Grey 	
 <p>L21MA08</p>		SPRING RETURN FROM LEFT TO 0 - 45°	
		<ul style="list-style-type: none"> ● Red ● Green ● Black ● Grey 	
		SPRING RETURN FROM RIGHT TO 0 - 45°	
		<ul style="list-style-type: none"> ● Red ● Green ● Black ● Grey 	
		SPRING RETURN TO 0 - 45°	
		<ul style="list-style-type: none"> ● Red ● Green ● Black ● Grey 	
		MAINTAINED POSITIONS - 90°	
		<ul style="list-style-type: none"> ● Red ● Green ● Black ● Grey 	

Operator Heads: \varnothing 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED



Technical Info (p.106)

WITH LEVER HANDLE

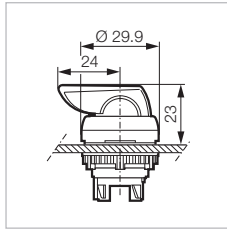
3 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21MR03



MAINTAINED POSITIONS - 45°

- Red
- Green
- Black
- Grey



L21MR01
L21MR02
L21MR03
L21MR08

L22MR01
L22MR02
L22MR03
L22MR08

SPRING RETURN FROM LEFT TO 0 - 45°

- Red
- Green
- Black
- Grey



L21MS01
L21MS02
L21MS03
L21MS08

L22MS01
L22MS02
L22MS03
L22MS08

SPRING RETURN FROM RIGHT TO 0 - 45°

- Red
- Green
- Black
- Grey



L21MT01
L21MT02
L21MT03
L21MT08

L22MT01
L22MT02
L22MT03
L22MT08

SPRING RETURN TO 0 - 45°

- Red
- Green
- Black
- Grey



L21MU01
L21MU02
L21MU03
L21MU08

L22MU01
L22MU02
L22MU03
L22MU08

Operator Heads: \varnothing 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED



Technical Info (p. 106)

WITH KNOB

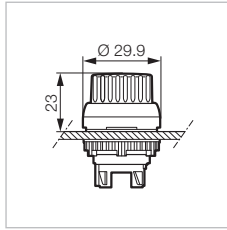
2 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21TF03



MAINTAINED POSITIONS - 45°

● Black

L21TA03

L22TA03

SPRING RETURN - 45°

● Black

L21TB03

L22TB03

MAINTAINED POSITIONS - 90°

L21TF03
● Black

L21TF03

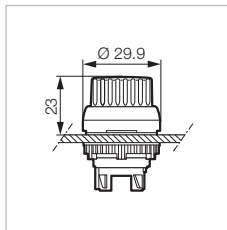
L22TF03

WITH KNOB

3 positions



L21UA03



MAINTAINED POSITIONS - 45°

● Black

L21UA03

L22UA03

SPRING RETURN FROM LEFT TO 0 - 45°

● Black

L21UB03

L22UB03

SPRING RETURN FROM RIGHT TO 0 - 45°

● Black

L21UC03

L22UC03

SPRING RETURN TO 0 - 45°

● Black

L21UD03

L22UD03

MAINTAINED POSITIONS - 90°

● Black

L21UK03

L22UK03

Operator Heads: Ø 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED

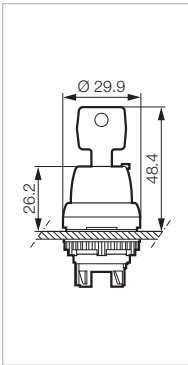


Technical Info (p.106)

WITH KEY	2 positions	Chrome Bezel Part Number	Black Bezel Part Number
----------	-------------	--------------------------	-------------------------



L21LG00



Supplied with 2 keys profile n° 455

KEY FREE IN POSITION:

MAINTAINED POSITIONS - 45°

● Black



0

L21LA00

L22LA00

SPRING RETURN - 45°

● Black



0

L21LB00

L22LB00

MAINTAINED POSITIONS - 45°

● Black



0

L21LC00

L22LC00

SPRING RETURN - 45°

● Black



0

L21LD00

L22LD00

MAINTAINED POSITIONS - 90°

● Black



0

L21LF00

L22LF00

MAINTAINED POSITIONS - 90°

● Black



0 - 1

L21LG00

L22LG00

MAINTAINED POSITIONS - 90°

● Black



0 - 1

L21LH00

L22LH00

MAINTAINED POSITIONS - 90°

● Black



1

L21LK00

L22LK00

FOR KEY PROFILE N° 1424A ADD SUFFIX "A" TO END OF ABOVE PART NUMBERS (IE. L21LA00A)

Operator Heads: Ø 22MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED

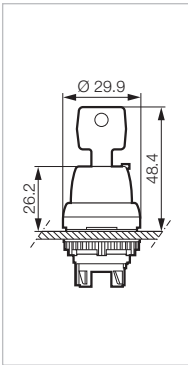


Technical Info (p.106)

WITH KEY	3 positions	Chrome Bezel Part Number	Black Bezel Part Number
----------	-------------	-----------------------------	----------------------------



L21NA00



Supplied with 2 keys profile n° 455

KEY FREE IN POSITION:

MAINTAINED POSITIONS - 45°

● Black



0

L21NA00

L22NA00

SPRING RETURN FROM LEFT TO 0 - 45°

● Black



0

L21NB00

L22NB00

SPRING RETURN FROM RIGHT TO 0 - 45°

● Black



0

L21NC00

L22NC00

SPRING RETURN TO 0 - 45°

● Black



0

L21ND00

L22ND00

MAINTAINED POSITIONS - 45°

● Black



1 - 2

L21NE00

L22NE00

SPRING RETURN FROM RIGHT TO 0 - 45°

● Black



1

L21NJ00

L22NJ00

MAINTAINED POSITIONS - 90°

● Black



1 - 0 - 2

L21NK00

L22NK00

MAINTAINED POSITIONS - 90°

● Black



0

L21NL00

L22NL00

FOR KEY PROFILE N° 1424A ADD SUFFIX "A" TO END OF ABOVE PART NUMBERS (IE. L21NA00A)

Operator Heads: Ø 22MM

▶ MECHANICAL ACTUATOR MOMENTARY - NON-ILLUMINATED

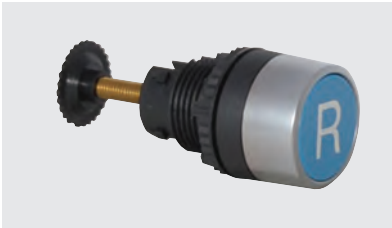


Technical Info (p.106)

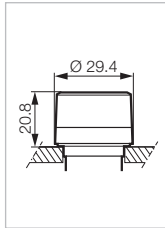
ADJUSTABLE MECHANICAL ACTUATOR - FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L21HA36949



To be used without electrical block

Stroke 11 mm

Adjustable: 26 mm min to 46 mm max / front side of panel

WITHOUT TEXT OR SYMBOL

● Red	L21HA01	L22HA01
● Green	L21HA02	L22HA02
● Black	L21HA03	L22HA03
● Yellow	L21HA04	L22HA04
○ White	L21HA05	L22HA05
● Blue	L21HA06	L22HA06

WITH TEXT OR SYMBOL (see p. 80 to 83)

Code to be added at the end of the part number

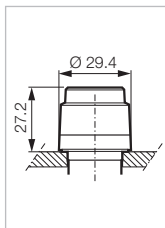
For custom text or symbol please contact us.

● Red	L21HA31	L22HA31
● Green	L21HA32	L22HA32
● Black	L21HA33	L22HA33
● Yellow	L21HA34	L22HA34
○ White	L21HA35	L22HA35
● Blue	L21HA36	L22HA36
● R Blue	L21HA363949	L22HA363949

ADJUSTABLE MECHANICAL ACTUATOR - PROJECTING



L21HB06



To be used without electrical block

Stroke 11 mm

Adjustable: 26 mm min to 46 mm max / front side of panel

● Red	L21HB01	L22HB01
● Green	L21HB02	L22HB02
● Black	L21HB03	L22HB03
● Yellow	L21HB04	L22HB04
○ White	L21HB05	L22HB05
● Blue	L21HB06	L22HB06

Operator Heads: ϕ 22MM

► USB INTERFACE 3.0 A/A CONNECTION

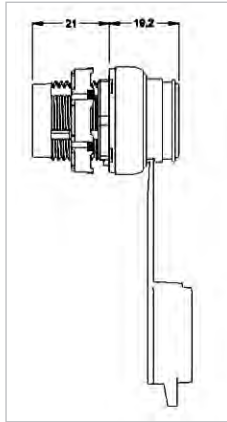


Technical Info (p. 106)

Chrome Bezel
Part Number



L21VB03



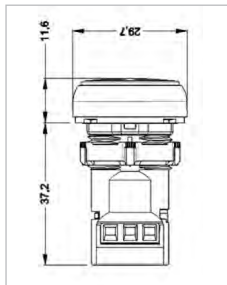
USB innterface 3.0 type A/A connection
USB Class: 3.0 (backward compatible with USB class 2.0)

L21VB03

Black Bezel
Part Number



L22VA03L



24 V AC/DC buzzer pulse or continuous sound
130 V AC/DC buzzer pulse or continuous sound
230 V AC/DC buzzer pulse or continuous sound

Buzzers operate at 80 dB at 10cm

L22VA03L
L22VA03M
L22VA03H

Operator Heads: ϕ 22MM

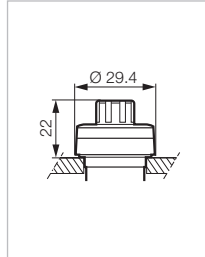
▶ BUTTON FOR POTENTIOMETER - NON-ILLUMINATED



Technical Info (p.106)

Chrome Bezel
Part Number

Black Bezel
Part Number



Head + mounting base for potentiometer with Plastic chrome bezel

Shaft ϕ 6 or 6.35 mm
Potentiometer length 46 to 51 mm

L21RP03

L22RP03

NOTE: POTENTIOMETER NOT INCLUDED

L21RP03

▶ JOYSTICKS - NON-ILLUMINATED

Part Number



LM2F

Heads supplied with a 3 position clip
Specific electrical blocks (p. 71)

HEAD DOES NOT LOCK IN POSITION 0

2 DIRECTIONS - 3 POSITIONS

2 maintained

A - 0 - B

LM2F

2 spring-return

A → 0 ← B

LM2A

4 DIRECTIONS - 5 POSITIONS

4 maintained

A
C - 0 - D
B

LM4F

4 spring-return

A
C → 0 ← D
B

LM4A

HEAD LOCKS IN POSITION 0

2 DIRECTIONS - 3 POSITIONS

2 maintained

A - 0 - B

LMV2F

2 spring-return

A → 0 ← B

LMV2A

4 DIRECTIONS - 5 POSITIONS

4 maintained

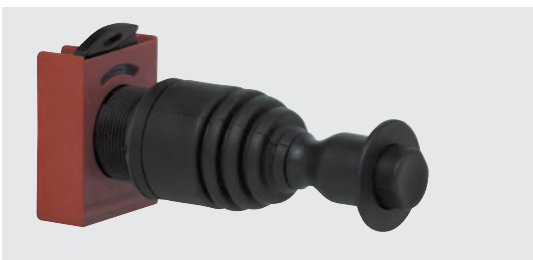
A
C - 0 - D
B

LMV4F

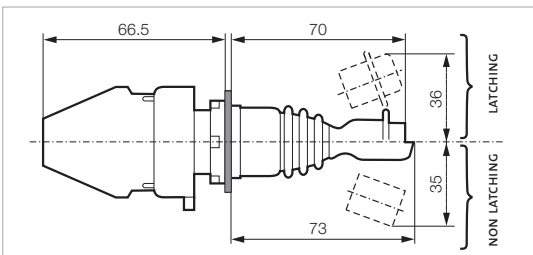
4 spring-return

A
C → 0 ← D
B

LMV4A



LMV4F



Operator Heads: ϕ 22MM

► SPRING RETURN - ILLUMINATED



Technical Info (p. 106)

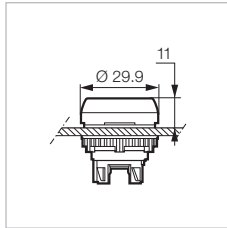
FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L21AH20



- Red
- Green
- Yellow
- White
- Blue--

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

L22AH10
L22AH20
L22AH40
L22AH50
L22AH60

WITH TEXT OR SYMBOL (see p. 82 to 85)
Code to be added at the end of the part number.
For custom text or symbol please contact us.



L21AH00

- Red
- Green
- Yellow
- White
- Blue

L21AH31□□□□
L21AH32□□□□
L21AH34□□□□
L21AH35□□□□
L21AH36□□□□

L22AH31□□□□
L22AH32□□□□
L22AH34□□□□
L22AH35□□□□
L22AH36□□□□

WITHOUT CAP

L21AH00

L22AH00

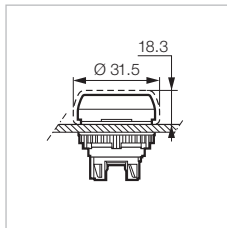
Pushbutton caps (see p. 84)

FLUSH WITH SHROUD

Reinforced degree of protection: IP 67



L22AQ40



Supplied with flat shroud

TRANSPARENT SHROUD

Components
Operator + Shroud

- Red
- Green
- Yellow
- White
- Blue

L22AH10 + LWA0255
L22AH20 + LWA0255
L22AH40 + LWA0255
L22AH50 + LWA0255
L22AH60 + LWA0255

L22AQ10
L22AQ20
L22AQ40
L22AQ50
L22AQ60

WITH TEXT OR SYMBOL (see p. 82 to 85)
Code to be added at the end of the part number.
For custom text or symbol please contact us.

- Red
- Green
- Yellow
- White
- Blue

L22AH31□□□□ + LWA0255
L22AH32□□□□ + LWA0255
L22AH34□□□□ + LWA0255
L22AH35□□□□ + LWA0255
L22AH36□□□□ + LWA0255

L22AQ31□□□□
L22AQ32□□□□
L22AQ34□□□□
L22AQ35□□□□
L22AQ36□□□□

Operator Heads: Ø 22MM

► SPRING RETURN - ILLUMINATED



Technical Info (p.106)

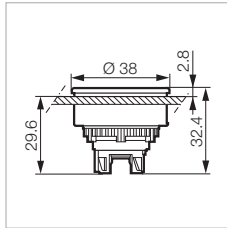
SUPER FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L23AH10



METAL CHROME BEZEL
Panel cut-out Ø 30 mm

WITHOUT ENGRAVING

- Red L23AH10
- Green L23AH20
- Yellow L23AH40
- White L23AH50
- Blue L23AH60

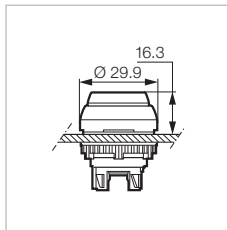
WITH TEXT OR SYMBOL (see p. 82 to 85)
Code to be added at the end of the part number.
For custom text or symbol please contact us.

- Red L23AH31□□□□
- Green L23AH32□□□□
- Yellow L23AH34□□□□
- White L23AH35□□□□
- Blue L23AH36□□□□

PROJECTING



L21AK20



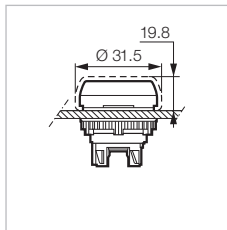
- Red L21AK10
- Green L21AK20
- Yellow L21AK40
- White L21AK50
- Blue L21AK60

- L22AK10
- L22AK20
- L22AK40
- L22AK50
- L22AK60

PROJECTING WITH SHROUD



L22AZ10



Supplied with domed shroud

TRANSPARENT SHROUD

- Red L22AK10 + LWA0228
- Green L22AK20 + LWA0228
- Yellow L22AK40 + LWA0228
- White L22AK50 + LWA0228
- Blue L22AK60 + LWA0228

Components
Operator + Shroud

- L22AZ10
- L22AZ20
- L22AZ40
- L22AZ50
- L22AZ60

Operator Heads: Ø 22MM

► SPRING RETURN - ILLUMINATED

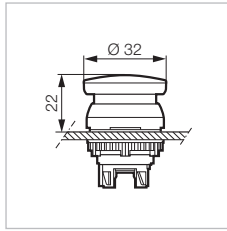


Technical Info (p. 106)

Ø 32 MUSHROOM



L21AL10



Push

- Red
- Green
- Yellow
- White

Chrome Bezel
Part Number

Black Bezel
Part Number

- L21AL10
- L21AL20
- L21AL40
- L21AL50

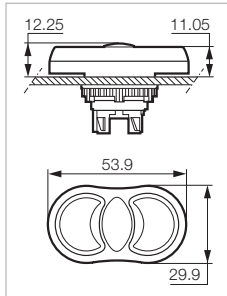
- L22AL10
- L22AL20
- L22AL40
- L22AL50

FLUSH-FLUSH

Twin touch - degree of protection: IP66



L62QH21



**CENTRAL PART ILLUMINATED
WITH INTERNATIONAL SYMBOLS**

- Green
- Red

L61QH21

L62QH21

BLANK

- Green
- Green

L61QH22V

L62QH22V

WITH TEXT

- Green (START)
- Red (STOP)

L61QH21A

L62QH21A

WITH ARROWS

- ↑ Green (up arrow)
- ↓ Green (down arrow)

L61QH22A

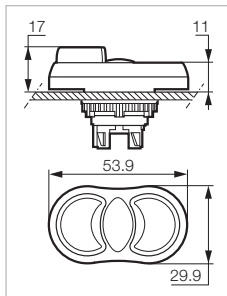
L62QH22A

FLUSH-PROJECTING

Twin touch - degree of protection: IP66



L61QK21



CENTRAL PART ILLUMINATED

- Green
- Red

L61QK21

L62QK21

WITH INTERNATIONAL SYMBOLS

- White
- Black

L61QK53

L62QK53

WITH TEXT

- Green (START)
- Red (STOP)

L61QK21A

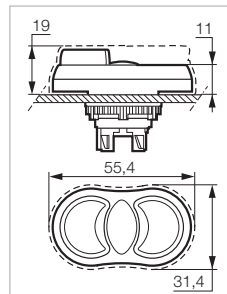
L62QK21A

FLUSH-PROJECTING WITH SHROUD

Twin touch - reinforced degree of protection: IP67



L62QN21



**CENTRAL PART ILLUMINATED
WITH INTERNATIONAL SYMBOLS**

- Green
- Red

L61QN21

L62QN21

WITH TEXT

- Green (START)
- Red (STOP)

L61QN21A

L62QN21A

Operator Heads: ϕ 22MM

► MAINTAINED - ILLUMINATED



Technical Info (p.106)

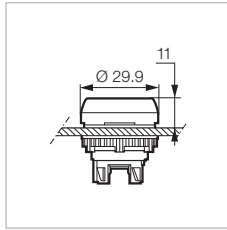
FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



L21CH20



- Red
- Green
- Yellow
- White
- Blue

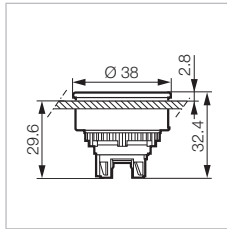
- L21CH10
- L21CH20
- L21CH40
- L21CH50
- L21CH60

- L22CH10
- L22CH20
- L22CH40
- L22CH50
- L22CH60

SUPER FLUSH



L23CH10



Metal chrome bezel
Panel Cut-out ϕ 30 mm

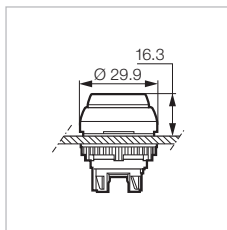
- Red
- Green
- Yellow
- White
- Blue

- L23CH10
- L23CH20
- L23CH40
- L23CH50
- L23CH60

PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

- L21CK10
- L21CK20
- L21CK40
- L21CK50
- L21CK60

- L22CK10
- L22CK20
- L22CK40
- L22CK50
- L22CK60

Operator Heads: ϕ 22MM

► MAINTAINED - ILLUMINATED



Technical Info (p.106)

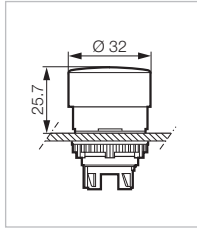
ϕ 32 MUSHROOM

Push-turn to reset

Black Bezel
Part Number



L22EL10



- Red
- Green
- Yellow

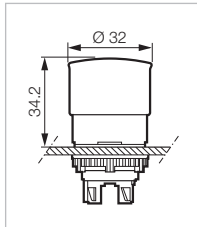
- L22EL10
- L22EL20
- L22EL40

ϕ 32 MUSHROOM

Push-pull to reset



L22DL10



- Red

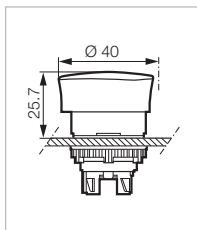
- L22DL10

ϕ 40 MUSHROOM

Push-turn to reset



L22EM10



- Red
- Green
- Yellow

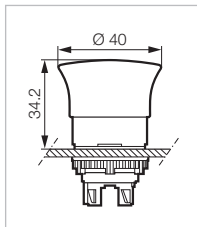
- L22EM10
- L22EM20
- L22EM40

ϕ 40 MUSHROOM

Push-pull to reset



L22DM10



- Red
- Green
- Yellow
- White

- L22DM10
- L22DM20
- L22DM40
- L22DM50

Operator Heads: \varnothing 22MM

EMERGENCY STOP MAINTAINED - ILLUMINATED



Technical Info (p. 106)

\varnothing 40 ISO 13850

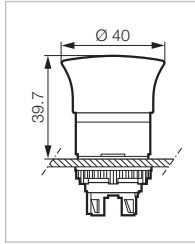
Push-pull to reset

Chrome Bezel
Part Number

Black Bezel
Part Number



L22DN10



Black bezel
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
ISO 13850

● Red

L22DN10

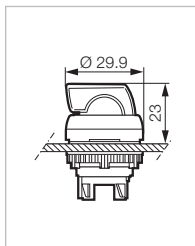
SELECTOR SWITCHES - ILLUMINATED

WITH HANDLE

2 positions



L21KJ30



Maintained positions - 45°

- Red
- Green
- Black



L21KG10
L21KG20
L21KG30

L22KG10
L22KG20
L22KG30

Spring return- 45°

- Red
- Green
- Black



L21KH10
L21KH20
L21KH30

L22KH10
L22KH20
L22KH30

Maintained positions - 45°

- Red
- Green
- Black



L21KJ10
L21KJ20
L21KJ30

L22KJ10
L22KJ20
L22KJ30

Spring return- 45°

- Red
- Green
- Black



L21KK10
L21KK20
L21KK30

L22KK10
L22KK20
L22KK30

Maintained positions - 90°

- Red
- Green
- Black



L21KL10
L21KL20
L21KL30

L22KL10
L22KL20
L22KL30

Maintained positions - 90°

- Red
- Green
- Black



L21KM10
L21KM20
L21KM30

L22KM10
L22KM20
L22KM30

Operator Heads: \varnothing 22mm

▶ SELECTOR SWITCHES - ILLUMINATED



Technical Info (p.106)

WITH LEVER HANDLE

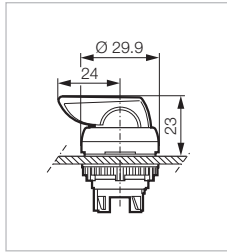
2 positions

Chrome Bezel
Part Number

Black Bezel
Part Number



L21KV30



Maintained positions - 45°

● Black

L21KV30

L22KV30

Maintained positions - 45°

● Black

L21KX30

L22KX30

Spring return - 45°

● Black

L21KY30

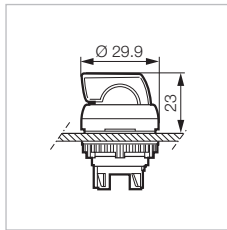
L22KY30

WITH HANDLE

3 positions



L21ME10



Maintained positions - 45°

● Red
● Green
● Black

L21ME10
L21ME20
L21ME30

L22ME10
L22ME20
L22ME30

Spring return from left to 0 - 45°

● Red
● Green
● Black

L21MF10
L21MF20
L21MF30

L22MF10
L22MF20
L22MF30

Spring return from right to 0 - 45°

● Red
● Green
● Black

L21MG10
L21MG20
L21MG30

L22MG10
L22MG20
L22MG30

Spring return to 0 - 45°

● Red
● Green
● Black

L21MH10
L21MH20
L21MH30

L22MH10
L22MH20
L22MH30

Maintained positions - 90°

● Red
● Green
● Black

L21MJ10
L21MJ20
L21MJ30

L22MJ10
L22MJ20
L22MJ30

Operator Heads: \varnothing 22MM

▶ SELECTOR SWITCHES - ILLUMINATED

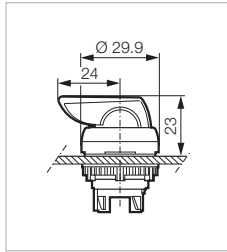


Technical Info (p.106)

WITH LEVER HANDLE



L21ML30



3 positions

Maintained positions - 45°

- Black



L21ML30

L22ML30

Spring return from left to 0 - 45°

- Black



L21MM30

L22MM30

Spring return from right to 0 - 45°

- Black



L21MN30

L22MN30

Spring return to 0 - 45°

- Black



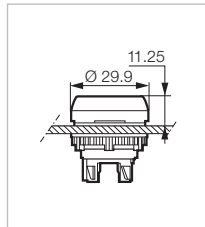
L21MP30

L22MP30

▶ PILOT LIGHTS - HEAD ONLY



L20SE20



- Red
- Green
- Yellow
- White
- Blue

L20SE10
L20SE20
L20SE40
L20SE50
L20SE60

WITH TEXT OR SYMBOL (see p. 82 to 85)

Code to be added at the end of the part number.
For custom text or symbol please contact us.

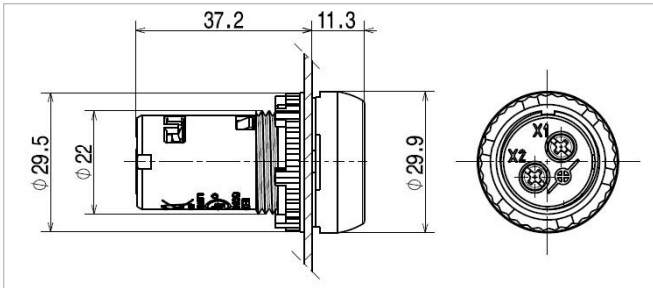
- Red
- Green
- Yellow
- White
- Blue

L20SE31□□□□
L20SE32□□□□
L20SE34□□□□
L20SE35□□□□
L20SE36□□□□

Operator Heads: ϕ 22MM

▶ ONE-PIECE PILOT LIGHTS

ONE-PIECE WITH INTEGRATED LED



24 Vac/Dc

- Red
- Green
- Yellow
- White
- Blue

Part Number

- L20SC10L
- L20SC20L
- L20SC40L
- L20SC50L
- L20SC60L

With Text or Symbol
Part Number **

- L20SC31L [] [] [] []
- L20SC32L [] [] [] []
- L20SC34L [] [] [] []
- L20SC35L [] [] [] []
- L20SC36L [] [] [] []

130 Vac/Dc

- Red
- Green
- Yellow
- White
- Blue

- L20SC10M
- L20SC20M
- L20SC40M
- L20SC50M
- L20SC60M

- L20SC31M [] [] [] []
- L20SC32M [] [] [] []
- L20SC34M [] [] [] []
- L20SC35M [] [] [] []
- L20SC36M [] [] [] []

230 Vac/Dc*

- Red
- Green
- Yellow
- White
- Blue

- L20SC10H
- L20SC20H
- L20SC40H
- L20SC50H
- L20SC60H

- L20SC31H [] [] [] []
- L20SC32H [] [] [] []
- L20SC34H [] [] [] []
- L20SC35H [] [] [] []
- L20SC36H [] [] [] []

* 230V DC rating is Self-Declared.

** Code to be added to end of part number.
See p. 82 to 85 for standard text and symbol options.
For custom text or symbol please contact us.

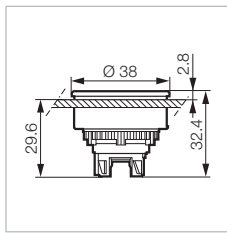
▶ SUPER FLUSH PILOT LIGHTS - HEAD ONLY

SUPER FLUSH

Chrome Bezel
Part Number



L23SE10



METAL CHROME BEZEL
Panel cut-out ϕ 30 mm

- Red
- Green
- Yellow
- White
- Blue

- L23SE10
- L23SE20
- L23SE40
- L23SE50
- L23SE60

Block holder clips for assembly as you require

1, 3 or 5-position clips

► CLIP

"A flexible configuration for assembly in any order..."

► 1 BLOCK



► 3 BLOCKS



► 5 BLOCKS



► MODULAR

Stacking without accessories



► BLOCK

"Imaginatively designed to be safe, robust and durable"

► MATERIAL

- IP20 as "finger safe"
- Electrical insulation
- Corrosion-resistant



► ENVIRONMENT

- Respect for the environment, RoHS compliant



- Snap fit, tools not required to attach contact blocks
- Cost effective solution: 1 position clip
- Blocks can be stacked on 2 levels, up to 3 blocks wide (blocks cannot be stacked using 5 row clip)
- Blocks can be assembled in any order (except pilot light)
- Optimized dimensions: reduced depth of blocks

- LED blocks: combine long life and economy
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard EN IEC 60947-5-1
- Conform to RoHS European directive concerning restriction of hazardous substances

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR NON-ILLUMINATED HEADS

 Technical Info (p.106)

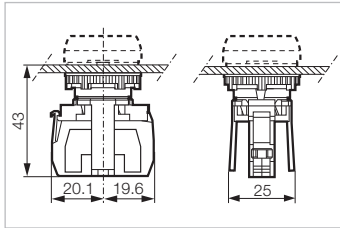
SCREW TERMINALS

1 position clip

Part Number



331E10



NO



331E10

NC



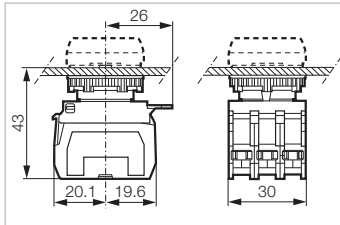
331E01

SCREW TERMINALS

3 position clip



333E21



NO



333E10

NC



333E01

2 NO



333E20

2 NC



333E02

NO + NC



333E11

3 NO

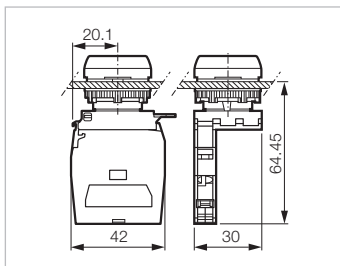


333E30

3 NC



333E03



NO/NC

2 NO + NC

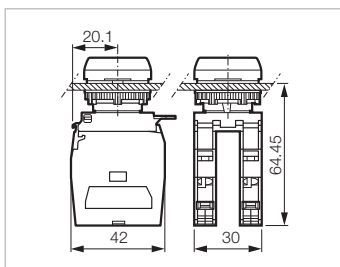


333E21

NO + 2 NC



333E12



2 NO/NC

NO/NC



334E11

2 NO/NC



334E22

Separate units: Blocks sub-assemblies

► CONTACT BLOCKS - FOR NON-ILLUMINATED HEADS

 Technical Info (p.106)

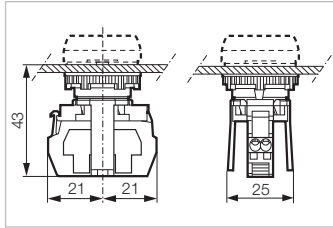
PLUG-IN TERMINALS

1 position clip

Part Number



331ER01



NO



331ER10

NC



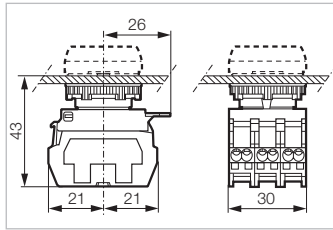
331ER01

PLUG-IN TERMINALS

3 position clip



333ER11



NO



333ER10

NC



333ER01

2 NO



333ER20

2 NC



333ER02

NO + NC



333ER11

3 NO



333ER30

3 NC



333ER03

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR NON-ILLUMINATED HEADS

 Technical Info (p. 106)

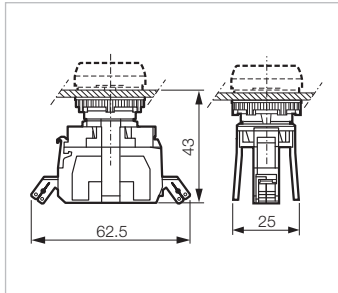
FASTON TERMINALS

1 position clip

Part Number



331ED10



NO



331ED10

NC



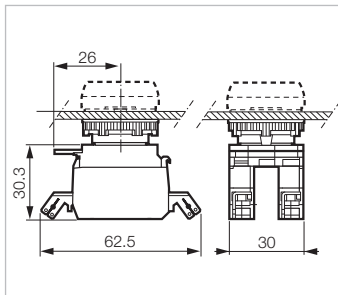
331ED01

FASTON TERMINALS

3 position clip



333ED20



NO



333ED10

NC



333ED01

2 NO



333ED20

2 NC



333ED02

NO + NC



333ED11

3 NO



333ED30

3 NC


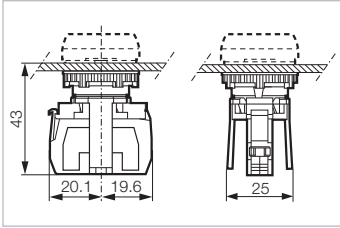

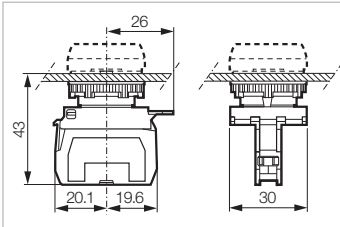

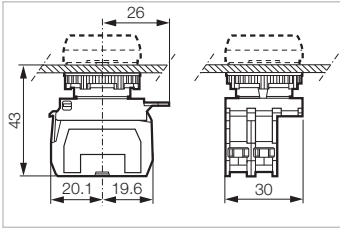


333ED03

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

SCREW TERMINALS	LED block	1 POSITION CLIP Part Number	3 POSITION CLIP Part Number
 <p>331EAGL</p>	 <p>LED X1 ⊗ X2</p> <p>12/24 Vac/Vdc</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 	<p>331EAWL</p> <p>331EARL</p> <p>331EAGL</p> <p>331EABL</p> <p>331EAYL</p>	<p>333EAWL</p> <p>333EARL</p> <p>333EAGL</p> <p>333EABL</p> <p>333EAYL</p>
 <p>333EAGL</p>	 <p>130 Vac</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 	<p>331EAWM</p> <p>331EARM</p> <p>331EAGM</p> <p>331EABM</p> <p>331EAYM</p>	<p>333EAWM</p> <p>333EARM</p> <p>333EAGM</p> <p>333EABM</p> <p>333EAYM</p>
<p>SCREW TERMINALS</p>	<p>3 position clip: NO + LED block</p>		
 <p>333EAWM10</p>	 <p>NO LED 3 — 4 X1 ⊗ X2</p> <p>12/24 Vac/Vdc</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 		<p>333EAWL10</p> <p>333EARL10</p> <p>333EAGL10</p> <p>333EABL10</p> <p>333EAYL10</p>
	<p>130 Vac</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 		<p>333EAWM10</p> <p>333EARM10</p> <p>333EAGM10</p> <p>333EABM10</p> <p>333EAYM10</p>
	<p>230 Vac</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 		<p>333EAWH10</p> <p>333EARH10</p> <p>333EAGH10</p> <p>333EABH10</p> <p>333EAYH10</p>

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

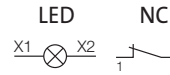
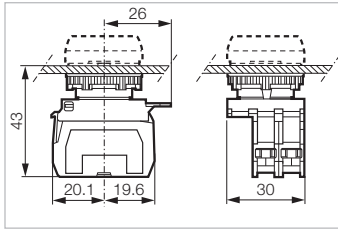
SCREW TERMINALS

3 position clip: LED block + NC

Part Number



333EAWL01



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL01
- 333EARL01
- 333EAGL01
- 333EABL01
- 333EAYL01

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM01
- 333EARM01
- 333EAGM01
- 333EABM01
- 333EAYM01

230 Vac

- White
- Red
- Green
- Blue
- Yellow

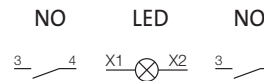
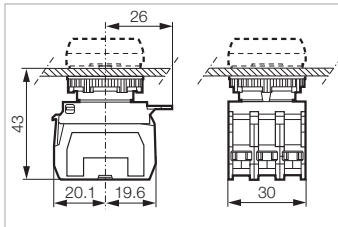
- 333EAWH01
- 333EARH01
- 333EAGH01
- 333EABH01
- 333EAYH01

SCREW TERMINALS

3 position clip: NO + LED block + NO



333EARL20



12/24 Vac/dc

- White
- Red
- Green
- Blue
- Yellow

- 333EAWL20
- 333EARL20
- 333EAGL20
- 333EABL20
- 333EAYL20

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWM20
- 333EARM20
- 333EAGM20
- 333EABM20
- 333EAYM20

230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EAWH20
- 333EARH20
- 333EAGH20
- 333EABH20
- 333EAYH20

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

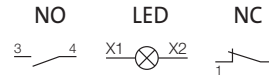
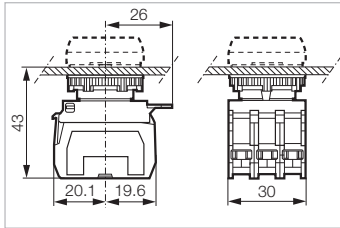
SCREW TERMINALS

3 position clip: NO + LED block + NC

Part Number



333EARL11



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

333EAWL11
333EARL11
333EAGL11
333EABL11
333EAYL11

130 Vac

- White
- Red
- Green
- Blue
- Yellow

333EAWM11
333EARM11
333EAGM11
333EABM11
333EAYM11

230 Vac

- White
- Red
- Green
- Blue
- Yellow

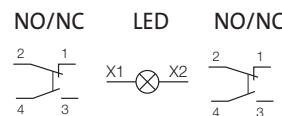
333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

SCREW TERMINALS

3 position clip: NO/NC + LED block + NO/NC



334EARL22



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

334EAWL22
334EARL22
334EAGL22
334EABL22
334EAYL22

130 Vac

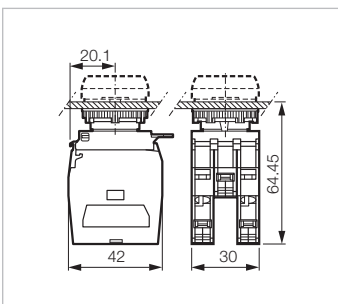
- White
- Red
- Green
- Blue
- Yellow

334EAWM22
334EARM22
334EAGM22
334EABM22
334EAYM22

230 Vac

- White
- Red
- Green
- Blue
- Yellow


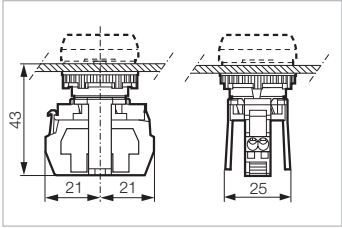

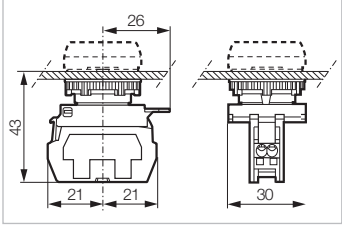



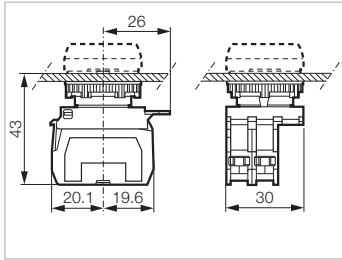
334EAWH22
334EARH22
334EAGH22
334EABH22
334EAYH22



Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

PLUG-IN TERMINALS	LED block	1 POSITION CLIP Part Number	3 POSITION CLIP Part Number
 <p>331ERAGH</p>	 <p>LED X1 ⊗ X2</p> <p>12/24 Vac/Vdc</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 	331ERAWL	333ERAWL
		331ERARL	333ERARL
		331ERAGL	333ERAGL
		331ERABL	333ERABL
		331ERAYL	333ERAYL
 <p>333ERAGH</p>	 <p>130 Vac</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 	331ERAWM	333ERAWM
		331ERARM	333ERARM
		331ERAGM	333ERAGM
		331ERABM	333ERABM
		331ERAYM	333ERAYM
 <p>331ERAGH</p>	 <p>230 Vac</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 	331ERAWH	333ERAWH
		331ERARH	333ERARH
		331ERAGH	333ERAGH
		331ERABH	333ERABH
		331ERAYH	333ERAYH
PLUG-IN TERMINALS			
3 position clip: NO + LED block			
 <p>333ERAGL10</p>	 <p>NO LED 3 — 4 X1 ⊗ X2</p> <p>12/24 Vac/Vdc</p> <ul style="list-style-type: none"> ○ White ● Red ● Green ● Blue ● Yellow 		333ERAWL10
			333ERAGL10
			333ERABL10
			333ERAYL10
			333ERAWM10
			333ERARM10
			333ERAGM10
			333ERABM10
			333ERAYM10
			333ERAWH10
			333ERARH10
			333ERAGH10
			333ERABH10
			333ERAYH10

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

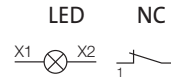
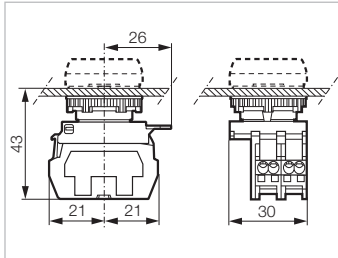
PLUG-IN TERMINALS

3 position clip: LED block + NC

Part Number



333ERAGH01



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWL01
- 333ERARL01
- 333ERAGL01
- 333ERABL01
- 333ERAYL01

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWM01
- 333ERARM01
- 333ERAGM01
- 333ERABM01
- 333ERAYM01

230 Vac

- White
- Red
- Green
- Blue
- Yellow

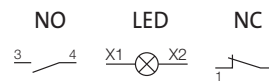
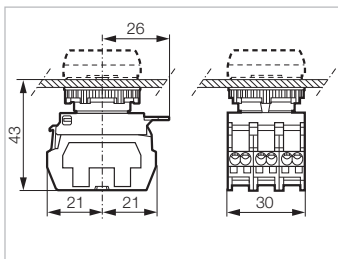
- 333ERAWH01
- 333ERARH01
- 333ERAGH01
- 333ERABH01
- 333ERAYH01

PLUG-IN TERMINALS

3 position clip: NO + LED block + NC



333ERAGH11



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWL11
- 333ERARL11
- 333ERAGL11
- 333ERABL11
- 333ERAYL11

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333ERAWM11
- 333ERARM11
- 333ERAGM11
- 333ERABM11
- 333ERAYM11

230 Vac


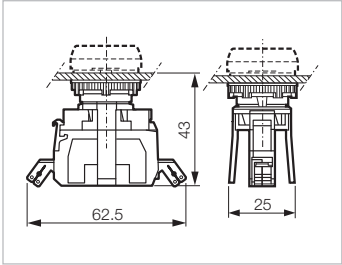

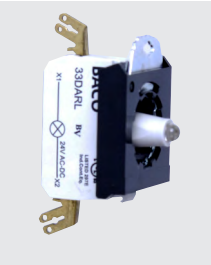
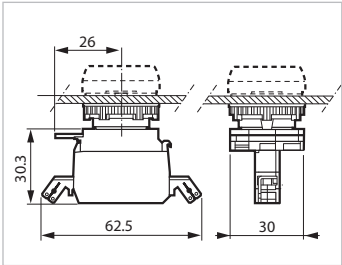



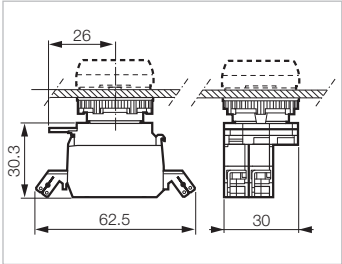
- White
- Red
- Green
- Blue
- Yellow

- 333ERAWH11
- 333ERARH11
- 333ERAGH11
- 333ERABH11
- 333ERAYH11

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

FASTON TERMINALS	LED block	1 POSITION CLIP Part Number	3 POSITION CLIP Part Number		
 331EDARL		LED 	12/24 Vac/Vdc ○ White ● Red ● Green ● Blue ● Yellow	331EDAWL 331EDARL 331EDAGL 331EDABL 331EDAYL	333EDAWL 333EDARL 333EDAGL 333EDABL 333EDAYL
			130 Vac ○ White ● Red ● Green ● Blue ● Yellow	331EDAWM 331EDARM 331EDAGM 331EDABM 331EDAYM	333EDAWM 333EDARM 333EDAGM 333EDABM 333EDAYM
 333EDARL		230 Vac ○ White ● Red ● Green ● Blue ● Yellow	331EDAWH 331EDARH 331EDAGH 331EDABH 331EDAYH	333EDAWH 333EDARH 333EDAGH 333EDABH 333EDAYH	
			3 position clip: NO + LED block	NO 	LED 
 333EDARL10		130 Vac ○ White ● Red ● Green ● Blue ● Yellow	333EDAWM10 333EDARM10 333EDAGM10 333EDABM10 333EDAYM10		
			230 Vac ○ White ● Red ● Green ● Blue ● Yellow	333EDAWH10 333EDARH10 333EDAGH10 333EDABH10 333EDAYH10	

Separate units: Blocks sub-assemblies

▶ CONTACT BLOCKS - FOR ILLUMINATED HEADS

 Technical Info (p.106)

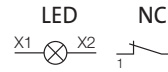
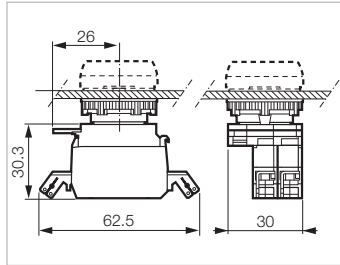
FASTON TERMINALS

3 position clip: LED block + NC

Part Number



333EDARM01



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL01
- 333EDARL01
- 333EDAGL01
- 333EDABL01
- 333EDAYL01

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM01
- 333EDARM01
- 333EDAGM01
- 333EDABM01
- 333EDAYM01

230 Vac

- White
- Red
- Green
- Blue
- Yellow

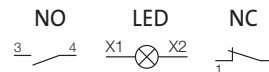
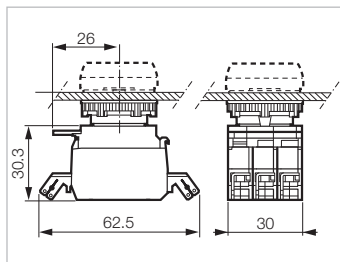
- 333EDAWH01
- 333EDARH01
- 333EDAGH01
- 333EDABH01
- 333EDAYH01

FASTON TERMINALS

3 position clip: NO + LED block + NC



333EDARL11



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWL11
- 333EDARL11
- 333EDAGL11
- 333EDABL11
- 333EDAYL11

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWM11
- 333EDARM11
- 333EDAGM11
- 333EDABM11
- 333EDAYM11

230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 333EDAWH11
- 333EDARH11
- 333EDAGH11
- 333EDABH11
- 333EDAYH11

Separate units: Clips

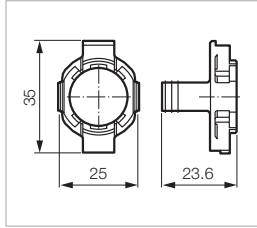
► CLIPS

 Technical Info (p.106)

CLIPS Part Number



331E



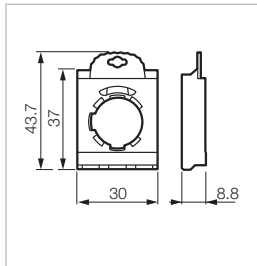
To be combined with blocks (p. 69 to 75)

1 position

331E

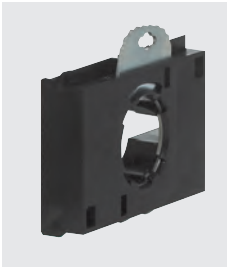


333E

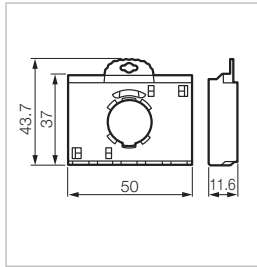


3 positions

333E



335E



5 positions (only for \varnothing 22 heads)

335E

CLIPS - JOYSTICK ONLY



LME3

3 positions (only for Joystick operators)

LME3



LME5

5 positions (only for Joystick operators)

LME5

Separate units: Blocks

▶ CONTACT BLOCKS

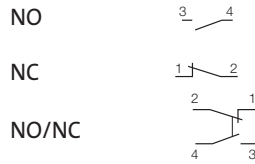
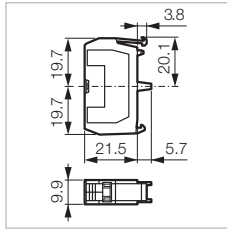
 Technical Info (p.106)

SCREW TERMINALS

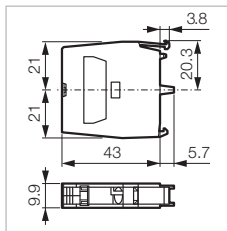
Part Number



33E10



33E11



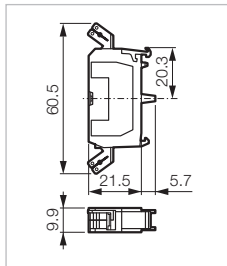
Gold plated contacts
for low current applications



FASTON TERMINALS



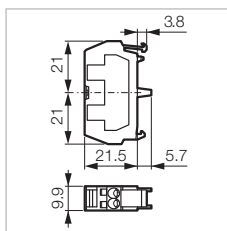
33D01



PLUG-IN TERMINALS



33R01



Separate units: Blocks

▶ CONTACT BLOCKS

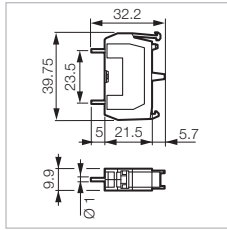
 Technical Info (p.106)

FOR PCB (PIN-STYLE TERMINALS)

Part Number



33P10



NO 

33P10

NC 

33P01

Gold plated contacts
for low current applications

NO 

33P10Y7

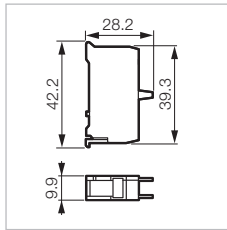
NC 

33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)



33S01



For empty LBX control stations (p. 94 to 101)
Base mounted

NO 

33S10

NC 

33S01

Separate units: Blocks

▶ LED BLOCKS

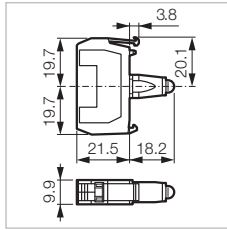
 Technical Info (p.106)

SCREW TERMINALS

Part Number



33EARL



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 33EAWL
- 33EARL
- 33EAGL
- 33EABL
- 33EAYL

48 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 33EAWL4
- 33EARL4
- 33EAGL4
- 33EABL4
- 33EAYL4

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33EAWM
- 33EARM
- 33EAGM
- 33EABM
- 33EAYM

230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33EAWH
- 33EARH
- 33EAGH
- 33EABH
- 33EAYH

110 Vdc*

- White

- 33EAWDM*

* NOT UL CERTIFIED

Separate units: Blocks

▶ LED BLOCKS

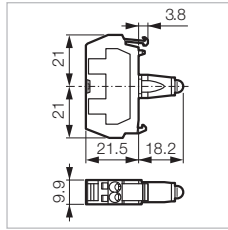
 Technical Info (p.106)

PLUG-IN TERMINALS

Part Number



33RAGH



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 33RAWL
- 33RARL
- 33RAGL
- 33RABL
- 33RAYL

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33RAWM
- 33RARM
- 33RAGM
- 33RABM
- 33RAYM

230 Vac

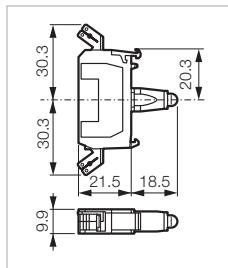
- White
- Red
- Green
- Blue
- Yellow

- 33RAWH
- 33RARH
- 33RAGH
- 33RABH
- 33RAYH

FASTON TERMINALS



33DARL



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 33DAWL
- 33DARL
- 33DAGL
- 33DABL
- 33DAYL

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33DAWM
- 33DARM
- 33DAGM
- 33DABM
- 33DAYM

230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33DAWH
- 33DARH
- 33DAGH
- 33DABH
- 33DAYH

Separate units: Blocks

▶ LED BLOCKS

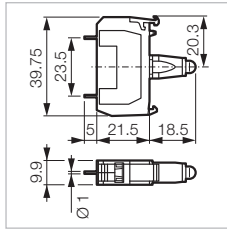
 Technical Info (p. 106)

FOR PCB (PIN STYLE)

Part Number



33PAWL



12/24 Vac/Vdc

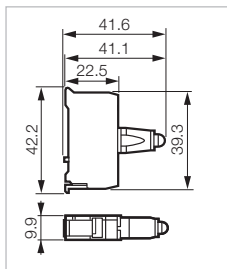
- White
- Red
- Green
- Blue
- Yellow

- 33PAWL
- 33PARL
- 33PAGL
- 33PABL
- 33PAYL

FOR CONTROL STATIONS (SCREW TERMINALS)



33SAGH



For empty LBX control stations (p. 98 to 99)
Base mounted



12/24 Vac/Vdc

- White
- Red
- Green
- Blue
- Yellow

- 33SAWL
- 33SARL
- 33SAGL
- 33SABL
- 33SAYL

130 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33SAWM
- 33SARM
- 33SAGM
- 33SABM
- 33SAYM

230 Vac

- White
- Red
- Green
- Blue
- Yellow

- 33SAWH
- 33SARH
- 33SAGH
- 33SABH
- 33SAYH

Separate units: Blocks

► SPECIFIC BLOCKS

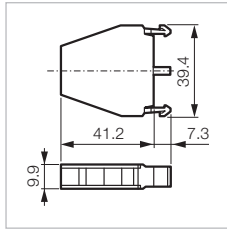
 Technical Info (p. 106)

FOR JOYSTICKS (SCREW TERMINALS)

Part Number



LM11



Joysticks (p. 47)

NO/NC

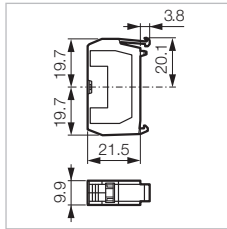


LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)

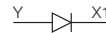


33ET



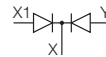
For 24 and 48 V

1 diode



33ET

2 diodes



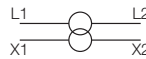
33ETT

TRANSFORMER BLOCKS (SCREW TERMINALS)

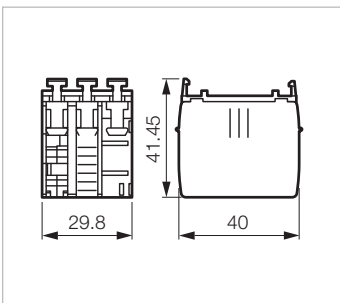


33EHC

230/24 V
400/24V



33EHC
33ELC



Separate units: Blocks

► SPECIFIC BLOCKS

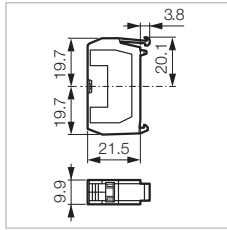
 Technical Info (p. 106)

FILTER BLOCKS (SCREW TERMINALS)

Part Number



33EFH



Prevents from voltage peaks for LED block
To be wired in parallel of the LED block

130 Vac
230 Vac

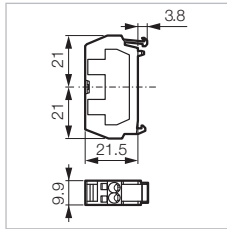


33EFM
33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)



33RFH



Prevents from voltage peaks for LED block
To be wired in parallel with the LED block

130 Vac
230 Vac

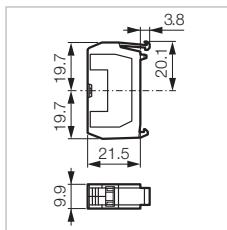


33RFM
33RFH

JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected
terminals

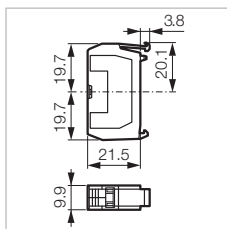


33EY

EMPTY BLOCK



33EX


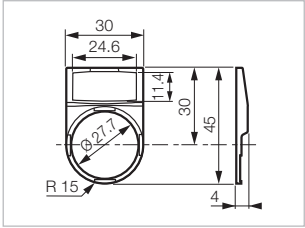


For empty positions on 3 or 5 position clip


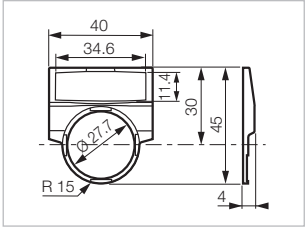
33EX

Accessories: ϕ 22MM

► COMPLETE LEGEND PLATES (FRAME + INSERT)


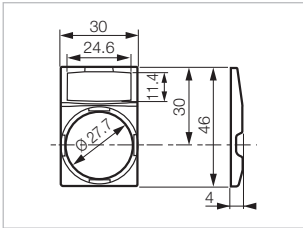
		Standard model - 30 x 45 mm	Part Number
 <p>LWP31</p>		<p>Round shape Black frame and legend plate unassembled 2 lines maximum, 13 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ○ White ● Alu 	<p>LWP31 LWP33 LWP35 LWP39</p>
		<p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ○ White - black engraving ● Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>LWP31□□□□ LWP33□□□□ LWP35□□□□ LWP39□□□□</p> <p>LWP37</p>


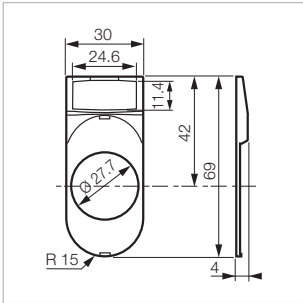
Large model - 40 x 45 mm

 <p>LWG33</p>		<p>Round shape Black frame and legend plate unassembled 2 lines maximum, 18 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ○ White ● --- 	<p>LWG31 LWG33 LWG35 LWG39</p>
		<p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ○ White - black engraving ● Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>LWG31□□□□ LWG33□□□□ LWG35□□□□ LWG39□□□□</p> <p>LWG37</p>

Accessories: ϕ 22mm


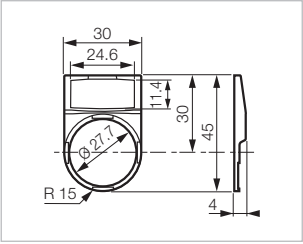

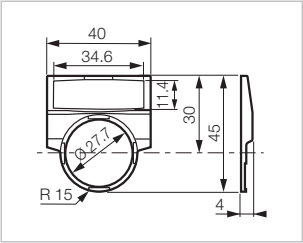

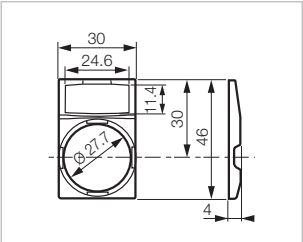

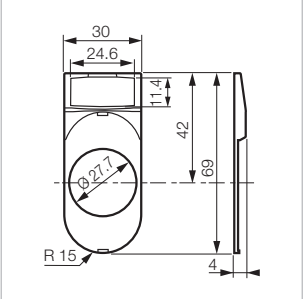
► COMPLETE LEGEND PLATES (FRAME + INSERT)

		Standard model - 30 x 46 mm	Part Number
 <p>LWP45</p>		<p>Square shape Black frame and legend plate unassembled 2 lines maximum, 13 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ○ White ● Alu 	<p>LWP41 LWP43 LWP45 LWP49</p>
		<p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ○ White - black engraving ● Alu - black engraving 	<p>LWP41□□□□ LWP43□□□□ LWP45□□□□ LWP49□□□□</p>
		<p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>LWP47</p>

		Standard model - 30 x 69 mm	
 <p>LWP29381</p>		<p>Round shape for Twin and Triple Touch operators Black frame and legend plate unassembled 2 lines maximum, 13 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ○ White ● Alu 	<p>LWP21 LWP23 LWP25 LWP29</p>
		<p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ○ White - black engraving ● Alu - black engraving 	<p>LWP21□□□□ LWP23□□□□ LWP25□□□□ LWP29□□□□</p>
		<p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>LWP27</p>



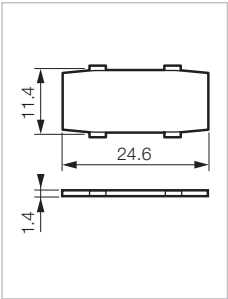
Accessories: ϕ 22MM



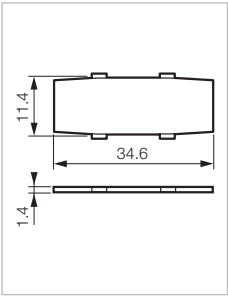
► LEGEND PLATES - FRAMES ONLY

ROUND	Standard model	Part Number
 <p>LWP3</p>	 <p>For use with standard model legend plate inserts</p> <ul style="list-style-type: none"> ● Black 	LWP3
 <p>LWG3</p>	 <p>For use with large model legend plate inserts</p> <ul style="list-style-type: none"> ● Black 	LWG3
 <p>LWP4</p>	 <p>For use with standard model legend plate inserts</p> <ul style="list-style-type: none"> ● Black 	LWP4
 <p>LWP2</p>	 <p>For use with standard model legend plate inserts</p> <ul style="list-style-type: none"> ● Black 	LWP2

Accessories: ϕ 22MM

▶ LEGEND PLATES - INSERTS ONLY

TO BE ENGRAVED	Standard model	Part Number
 <p>LIA5</p>  <p>LIA1</p>	 <p>2 lines maximum 13 characters per line For use with standard model legend plate frames</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Red <input checked="" type="radio"/> Black <input type="radio"/> White <input type="radio"/> Alu <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Red - white engraving <input checked="" type="radio"/> Black - white engraving <input type="radio"/> White - black engraving <input type="radio"/> Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER...)</p> <ul style="list-style-type: none"> <input type="radio"/> Transparent 	<p>LIA1 LIA3 LIA5 LIA9</p> <p>LIA1□□□ LIA3□□□ LIA5□□□ LIA9□□□</p> <p>LIA7</p>

TO BE ENGRAVED	Large model	Part Number
 <p>LIB9</p>  <p>LIB3</p>	 <p>2 lines maximum 18 characters per line For use with large model legend plate frame</p> <p>Without engraving</p> <ul style="list-style-type: none"> <input type="radio"/> White <input checked="" type="radio"/> Red <input type="radio"/> Alu <input checked="" type="radio"/> Black <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> <input type="radio"/> White - black engraving <input checked="" type="radio"/> Red - white engraving <input type="radio"/> Alu - black engraving <input checked="" type="radio"/> Black - white engraving <p>Protective mask for legend plate (paper or other...)</p> <ul style="list-style-type: none"> <input type="radio"/> Transparent 	<p>LIB5 LIB1 LIB9 LIB3</p> <p>LIB5□□□ LIB1□□□ LIB9□□□ LIB3□□□</p> <p>LIB7</p>

Accessories: ϕ 22MM

▶ LEGEND PLATES - EMERGENCY STOP

PLASTIC LEGEND PLATES (27.4mm diameter hole)

Part Number



LWE60300

Plastic - Yellow with black engraving

60mm diameter

Blank	LWE60
EMERGENCY STOP	LWE60300
EMO	LWE60900
ARRET D'URGENCE	LWE60100
NOT AUS	LWE60200

70mm diameter

Blank	LWE70
EMERGENCY STOP	LWE70300
EMO	LWE70900

80mm diameter

Blank	LWE80
EMERGENCY STOP	LWE80300
EMO	LWE80900

NOTES:

- 1) Custom diameters and engravings available please contact us for details.
- 2) Contact us for use with guards on page 88.

METAL LEGEND PLATES (22.4mm diameter hole)



LWE16300

Metal - Yellow with black lettering

60mm diameter (With ISO 13850 symbol and text)

Blank	LWE16
EMERGENCY STOP + 	LWE16300
ARRET D'URGENCE + 	LWE16100
NOT AUS + 	LWE16232

80mm diameter (With ISO 13850 symbol and text)

EMERGENCY STOP + 	LWE00300
ARRET D'URGENCE + 	LWE00100
NOT AUS + 	LWE00232



LWE16352

60mm diameter (Without symbol, text only)

EMERGENCY STOP	LWE16352
ARRET D'URGENCE	LWE16152
NOT AUS	LWE16200

80mm diameter (Without symbol, text only)

EMERGENCY STOP	LWE00352
ARRET D'URGENCE	LWE00152
NOT AUS	LWE00200

Accessories: ϕ 22MM

► LEGEND PLATES FOR LBX ENCLOSURES

INDIVIDUAL LEGEND PLATES (27.4mm diameter hole)

Part Number



LWB13

Plastic - Rectangular shape

WITHOUT ENGRAVING

- Red
- Black
- Yellow
- White
- Blue
- Alu

LWB11
LWB13
LWB14
LWB15
LWB16
LWB19



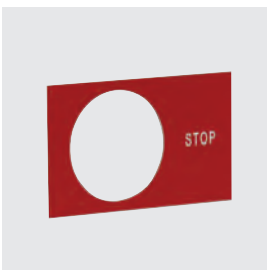
LWB19H301

WITH TEXT (see p. 82 to 85) FOR HORIZONTAL MOUNTING

Code to be added at the end of the part number.
For custom text or symbol please contact us.

- Red - white engraving
- Black - white engraving
- Yellow - black engraving
- White - black engraving
- Blue - white engraving
- Alu - black engraving

LWBH11□□□□
LWBH13□□□□
LWBH14□□□□
LWBH15□□□□
LWBH16□□□□
LWBH19□□□□



LWB11V302

WITH TEXT (see p. 82 to 85) FOR VERTICAL MOUNTING

Code to be added at the end of the part number.
For custom text or symbol please contact us.

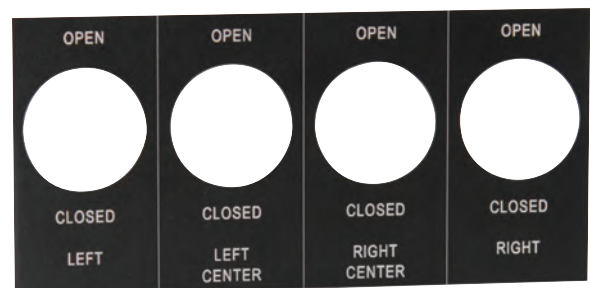
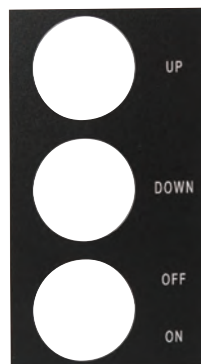
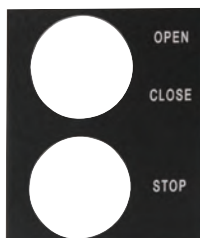
- Red - white engraving
- Black - white engraving
- Yellow - black engraving
- White - black engraving
- Blue - white engraving
- Alu - black engraving

LWBV11□□□□
LWBV13□□□□
LWBV14□□□□
LWBV15□□□□
LWBV16□□□□
LWBV19□□□□

MULTI HOLE LEGEND PLATES

SINGLE PIECE MULTI-HOLE
LEGEND PLATES ARE AVAILABLE

CONTACT US FOR DETAILS.



Engravings

► STANDARD TEXT

UNIVERSAL TEXT Code

0-I.....	081
I-II.....	082
I-O-I.....	091
I-II-III.....	092
0-I-START.....	093
0-I-II.....	094

CUSTOM TEXT AVAILABLE
UPON REQUEST

TEXT Code Code Code

AUTO.....	402	EXHAUSTER.....	438	IN.....	476
AUTO CUT.....	403	FAST.....	310	IN OUT.....	477
AUTO HAND.....	404	FAST OFF SLOW.....	439	INCH.....	329
AUTO HAND OFF.....	405	FAST SLOW.....	440	INCH RETURN.....	478
AUTO MAN.....	401	FASTER.....	441	INCH REV.....	480
AUTO MAN OFF.....	406	FAULT.....	442	INCH REVERSE.....	481
AUTO MANUAL.....	407	FEED HOLD.....	443	INCH RUN.....	482
AUTO O HAND.....	408	FEED OFF.....	444	INCHING.....	483
AUTO OFF MAN.....	409	FEED ON.....	445	INCREASE.....	484
AUTO OFF MANUAL.....	410	FEED START.....	446	INSPECT.....	485
AUTO RETURN.....	411	FEED STOP.....	447		
		FEEDER OFF.....	448	JOG.....	328
BLOWER.....	413	FEEDER ON.....	449	JOG FOR.....	486
BRAKE.....	414	FOR.....	450	JOG FORWARD.....	487
		FOR AUTO REV.....	451	JOG FWD.....	488
CLAMP.....	415	FOR O REV.....	452	JOG OFF RUN.....	489
CLOSE.....	314	FOR OFF REV.....	453	JOG REV.....	490
CLOSE CIRCUIT.....	416	FOR REV.....	454	JOG REVERSE.....	491
CLOSE OPEN.....	417	FOR STOP REV.....	455	JOG RUN.....	492
CONTROL OFF.....	418	FORWARD.....	305	JOG SAFE RUN.....	493
CONTROL ON.....	419	FORWARD AUTO REVERSE.....	456	JOG STOP RUN.....	494
CYCLE.....	420	FORWARD OFF REVERSE.....	392		
CYCLE ON.....	421	FORWARD REVERSE.....	457	LAST STOP.....	495
CYCLE START.....	422	FORWARD STOP REVERSE.....	458	LEFT.....	311
CYCLE STOP.....	423	FULL SPEED.....	459	LEFT RIGHT.....	496
		FWD.....	460	LOC REM.....	497
DECREASE.....	424	FWD AUTO REV.....	461	LOCAL OFF REMOTE.....	393
DOWN.....	336	FWD O REV.....	462	LOCAL REMOTE.....	498
DOWN OFF UP.....	425	FWD OFF REV.....	463	LOW.....	499
DOWN UP.....	426	FWD REV.....	464	LOW HIGH.....	501
DRIVE START.....	427	FWD STOP REV.....	465	LOW OFF HIGH.....	502
DRIVE STOP.....	428			LOW OFF RAISE.....	503
		HAND.....	466	LOW SPEED.....	504
EMERG STOP.....	429	HAND AUTO.....	383	LOWER.....	308
EMERGENCY.....	430	HAND I AUTO.....	467	LOWER OFF RAISE.....	505
EMERGENCY OFF.....	431	HAND O AUTO.....	468	LOWER RAISE.....	506
EMERGENCY STOP.....	300	HAND OFF AUTO.....	391	LUBE CYCLE.....	507
EMERGENCY STOP PULL TO RESET.....	432	HAND ON.....	469	LUBE FAIL.....	508
EMERGENCY STOP TURN TO RESET.....	433	HAND START.....	470		
EMERGENCY STOP TWIST TO RESET.....	434	HAND STOP.....	471		
EMO.....	900	HEAT.....	472		
ENABLE.....	435	HIGH.....	473		
ENTER.....	436	HIGH LOW.....	474		
ERROR.....	437	HIGH OFF LOW.....	475		

Engravings

▶ STANDARD TEXT

TEXT	Code	Code	Code
MAN AUTO	509	REV FWD	552
MAN O AUTO	510	REV OFF FOR	553
MAN OFF AUTO	511	REV OFF FWD	554
MANUAL	512	REVERSE	306
MANUAL AUTO	513	REVERSE FORWARD	555
MANUAL OFF AUTO	514	REVERSE OFF FORWARD	556
MOTOR RUN	515	REVERSING	557
MOTOR RUNNING	516	RIGHT	312
MOTOR START	517	RIGHT LEFT	558
MOTOR STOP	518	ROTATE CCW	559
MOTOR STOPPED	519	ROTATE CW	560
OFF	304	RUN	327
OFF CIRCUIT	520	RUN JOG	561
OFF COOLANT ON	521	RUN SAFE JOG	562
OFF LIGHT ON	522	RUNNING	563
OFF ON	382	SAFE	564
OFF RUN	523	SAFE RUN	565
OFF RUN START	523	SEQ TEST	566
ON	303	SEQUENCE TEST	567
ON CIRCUIT	524	SETUP	568
ON OFF	525	SETUP RUN	569
ON OFF AUTO	526	SETUP SERVICE	570
ON STOP SAFE	527	SLOW	309
OPEN	313	SLOW FAST	571
OPEN CIRCUIT	528	SLOW OFF FAST	572
OPEN CLOSE	529	SLOW OFF START	573
OPEN OFF CLOSE	530	SLOW SPEED	574
OUT	531	SLOW STOP FAST	575
OVERLOAD	532	SLOWEST	576
OVERLOAD RESET	533	SOFT SPEED	577
OVERLOAD TRIP	534	SOUND ALARM	578
OVERLOAD TRIPPED	535	SPEED	579
POWER OFF	536	SPINDLE CLOSED	580
POWER ON	330	SPINDLE OPEN	581
PULL TO RESET	537	START	301
PULL TO START	538	START CYCLE	582
PURGE	539	START FEED	583
PUSH TO STOP	540	START JOG	584
PUSH TO STOP PULL TO START	541	START STOP	585
PUSH TO STOP TURN TO START	542	STOP	302
PUSH TO STOP TWIST TO START	543	STOP CYCLE	586
PUSH TO TEST	544	STOP FEED	587
RAISE	307	STOP RESET	588
RAISE LOWER	545	STOP START	381
RAISE OFF LOWER	546	SUMMER OFF WINTER	589
READY	547	SUMMER WINTER	590
RELEASE BRAKE	548	SUPPLY ON	591
RESET	315	SYSTEM ON	592
RETURN	549	TEST	593
REV	550	TRANSFER	594
REV FOR	551	TRIP	595

CUSTOM TEXT AVAILABLE
UPON REQUEST









Engravings

▶ STANDARD SYMBOLS ISO/DIN












	Description	Symbol	Code
CUSTOM SYMBOLS AVAILABLE UPON REQUEST	Continuous straight-line movement ISO 1		A01
	Alternating straight-line movement ISO 5		A05
	Continuous rotating movement clockwise ISO 7A - DIN 100		A07
	Continuous rotating mov. anti-clockwise ISO 7B		B07
	Forward ISO 16		A16
	Increase in value ISO 28		A28
	Decrease in value ISO 29		A29
	Adjustable ISO 62		A62
	Clamp, block apply pressure ISO 63A		A63
	Clamp, block apply pressure ISO 63B		B63
	Unclamp, release ISO 64A		A64
	Unclamp, release ISO 64B		B64
	Brake ISO 65		A65
	Release brake ISO 66		A66
	Automatic cycle (or semi-automatic) ISO 67		A67
	Manual control ISO 68		A68
	“ON” close circuit ISO 69		A69
	“STOP” close circuit ISO 70		A70
	ON/OFF close + open circuit ISO 71		A71
	Close circuit manual impulse ISO 72		A72
Clutch ISO 74 - DIN 46		A74	
De-clutch ISO 75 - DIN 45		A75	

Engravings

▶ STANDARD SYMBOLS ISO/DIN

	Description	Symbol	Code
CUSTOM SYMBOLS AVAILABLE UPON REQUEST	Warning "live" (energized) ISO 92 - DIN 131		A92
	Main switch ISO 94		A94
	Lubrication jet ISO 101		C01
	Machine lighting ISO 102 - DIN 139		C02
	Greasing ISO 107 - DIN 175		C07
	Blow ISO 108 - DIN 263		C08
	Suction ISO 109 - DIN 264		C09
	Sound alarm DIN 155		D01

▶ ADDITIONAL STANDARD SYMBOLS

	Description	Symbol	Code
CUSTOM SYMBOLS AVAILABLE UPON REQUEST			A01
			B01
			E01
			F01
			A62
			B62
			E62
			F62
			003
			004
		005	

Accessories: \varnothing 22MM

► FLUSH PUSHBUTTON CAPS

NON ILLUMINATED

Part Number

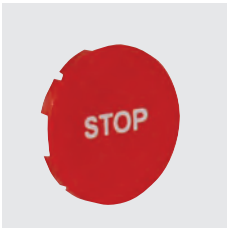


LT05

For use with **L21AA, L22AA, L21CA, and L22CA** operators

WITHOUT TEXT OR SYMBOL

● Red	LT01
● Green	LT02
● Black	LT03
● Yellow	LT04
○ White	LT05
● Blue	LT06



LT21302

WITH TEXT OR SYMBOL (see p. 82 to 85)
Code to be added at the end of the part number.
For custom text or symbol please contact us.

● Red - white lettering	LT21□□□□
● Green - white lettering	LT22□□□□
● Black - white lettering	LT23□□□□
● Yellow - black lettering	LT24□□□□
○ White - black lettering	LT25□□□□
● Blue - white lettering	LT26□□□□

ILLUMINATED



LT20

For use with **L21AH, L22AH, L21CH, and L22CH** operators

WITHOUT TEXT OR SYMBOL

● Red	LT10
● Green	LT20
● Yellow	LT40
○ White	LT50
● Blue	LT60




LT34308


WITH TEXT OR SYMBOL (see p. 82 to 85)
Code to be added at the end of the part number.
For custom text or symbol please contact us.


● Red - white lettering	LT31□□□□
● Green - white lettering	LT32□□□□
● Yellow - black lettering	LT34□□□□
○ White - black lettering	LT35□□□□
● Blue - white lettering	LT36□□□□

Accessories: ϕ 22mm

► SHROUDS - REINFORCED DEGREE OF PROTECTION: IP 67

FOR FLUSH PUSH-BUTTONS	Flat Shroud	Part Number
 <p>LWA0252</p>	○ Transparent	LWA0255
	● Red	LWA0251
	● Green	LWA0252
	● Black	LWA0253

FOR FLUSH OR PROJECTED PUSH-BUTTONS	Domed Shroud	Part Number
 <p>LWA0203</p>	○ Transparent	LWA0228
	● Red	LWA0203
	● Green	LWA0204
	● Black	LWA0205

FOR TWIN TOUCH OR TRIPLE TOUCH OPERATORS		Part Number
 <p>LWA0223</p>	For twin touch flush-projecting or triple touch	LWA0223
	○ Transparent	

Accessories: ϕ 22mm

► MISCELLANEOUS

FIXING TOOL

Part Number



LWA0234

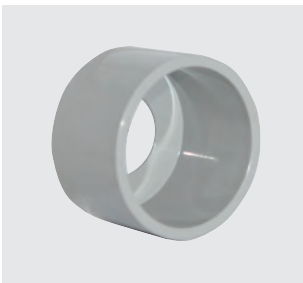
Fixing tool for locking ring - 22mm only

LWA0234

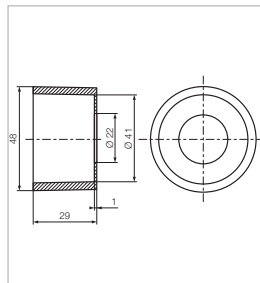
Fixing tool for locking ring - 22mm & 30mm

WAO210

GUARD



LWA0225



For spring return button and spring return mushroom head
(max. ϕ 40)

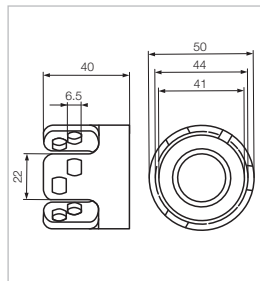
● Grey

LWA0225

PADLOCKABLE GUARD



LWA0240



For maintained mushroom head

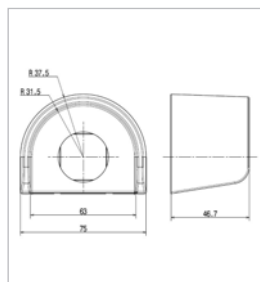
● Yellow

LWA0240

HALF GUARD RING



LWA0242



For maintained mushroom head

● Yellow

LWA0242

Accessories: ϕ 22mm

► MISCELLANEOUS

REPLACEMENT KEYS

Part Number



455 / 1424A

Replacement keys (set of 2) - key profile 455

455

Replacement keys (set of 2) - key profile 1424A

1424A

ANTI-ROTATION CLAW PLATE



LWA0237

Metal claw plate

LWA0237

ANTI-ROTATION RING



LWA209

Plastic anti rotation ring - 22mm

LWA0209

LOCKING NUT



04006305

Plastic locking nut for 22mm operators

04006305

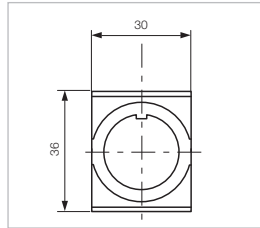
► MISCELLANEOUS

SQUARE FRAME

Part Number



LWA0230



For turning a round shape button or a pilot light into a square shape

- Black

LWA0230

MOUNTING HOLE REDUCTION RING (Ø 30mm to 22mm)



LWA0219

Converts Ø 30 mm panel cut-out to 22 mm hole

- Grey
- Yellow

LWA0219
LWA0220

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL

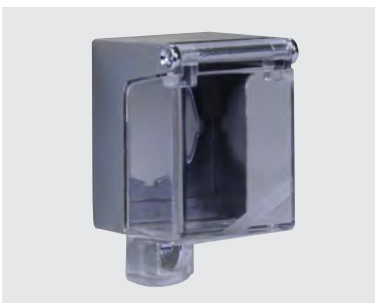


LWA0238

For pilot lights, spring return buttons and selector switches

LWA0238

PADLOCKABLE SHROUD



LWA0226

Only for: Flush pushbuttons
Projected pushbuttons
Selector switches (not lever handle or key)

LWA0226

► MISCELLANEOUS

SCREWDRIVER - FOR PLUG IN TERMINAL BLOCKS



2.5mm (.098") flat head screwdriver
for use with plug in terminal blocks

45040

45040

BLANKING PLUG

Part Number



- Black
- Grey

LWA0229
LWA0215

LWA0229

TERMINAL FOR LBX ENCLOSURES (GROUND OR NEUTRAL)



For control station
Base mounted

LWA0216

LWA0216

CABLE GLANDS



M20-BK



PG16-GY

	Size	Cable Thickness	
● Black	M20	6mm - 12mm	M20-BK
● Grey	PG11	3mm - 7mm	PG11-GY
● Grey	PG13.5	6mm - 12mm	PG13-GY
● Grey	PG16	10mm - 14mm	PG16-GY
● Grey	PG21	13mm - 18mm	PG21-GY
● Grey	PG29	18mm - 25mm	PG29-GY

Din-Rail Assemblies ø 22

► NON ILLUMINATED

 Technical Info (p.106)

SPRING RETURN - FLUSH

Part Number



LWA0238-101

● Green

NO



Marking

START

LWA0238-101

● Red

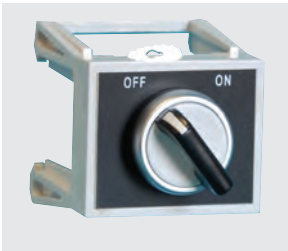
NC



STOP

LWA0238-104

SELECTOR SWITCH - WITH HANDLE



LWA0238-401

● Black

NO



Marking

OFF ON

LWA0238-401

SELECTOR SWITCH - WITH KEY



LWA0238-402

● Black

NO



Marking

OFF ON

LWA0238-402

MUSHROOM HEAD ø 40 - MAINTAINED

Push-turn to reset



LWA0238-301

● Red

NC



Marking

EMERGENCY STOP

LWA0238-301

Control Stations

solutions....



Control stations with mushroom heads
pre-assembled



Standard Control stations with buttons
1, 2 or 3 buttons



Empty Enclosures
1, 2, 3, 4 or 5 holes



Custom Pre-Assembled Enclosures
1, 2, 3, 4 or 5 holes

► ADVANTAGES

"All types of control station applications can be achieved"

- Multipurpose, pre-equipped with pushbuttons, emergency stops, selector switches, key switches, etc.
- Enclosures for custom assembly 1,2,3,4 or 5 holes
- Up to 3 blocks per position
- Innovative design

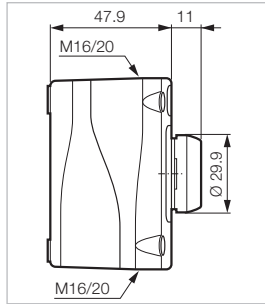
Control Stations \varnothing 22

► CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p.106)

SPRING RETURN - FLUSH

Part Number



- Green
- Red

NO
NC



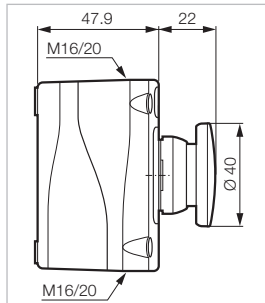
Marking



LBX10110
LBX10610

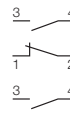
LBX10110

MUSHROOM HEAD \varnothing 40 - SPRING RETURN



- Green
- Red
- Red

NO
NC
NO



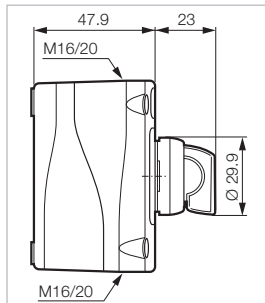
Marking



LBX107210
LBX10210
LBX130028

LBX10210

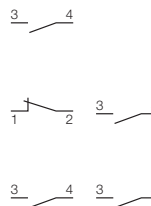
SELECTOR SWITCH - WITH HANDLE



2 Maintained positions - 90°

- Black
- Black
- Black

NO
NC + NO
2 NO



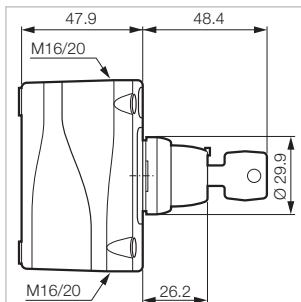
Marking



LBX12510
LBX12511
LBX12520

LBX12510

SELECTOR SWITCH - WITH KEY



Supplied with 2 keys profile n° 455

2 Maintained positions - 90°
Key free in position 0-1

- Black

NO



Marking



LBX12610

LBX12610

Control Stations \varnothing 22

► CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p. 106)

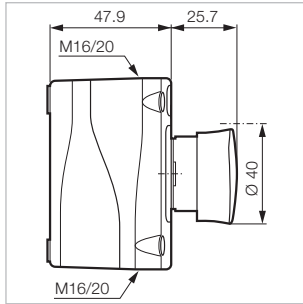
MUSHROOM HEAD \varnothing 40 - MAINTAINED


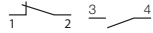
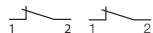

Push-turn to reset

Part Number


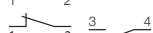
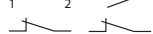


LBX10510



● Red	NC		EMERGENCY STOP	LBX10510
● Red	NC + NO		EMERGENCY STOP	LBX130006
● Red	2 NC		EMERGENCY STOP	LBX130005
● Red	NO		EMERGENCY STOP	LBX130007

WITH STOP STOP STOP TEXT ON BUTTON HEAD

● Red	NC		EMERGENCY STOP	LBX10510S
● Red	NC + NO		EMERGENCY STOP	LBX130010
● Red	2 NC		EMERGENCY STOP	LBX130009

For contact blocks attached to operator please contact us.



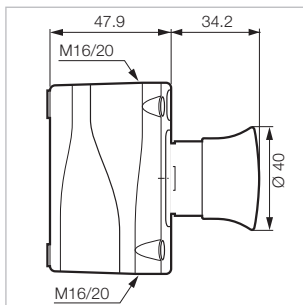
LBX130009


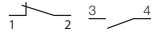
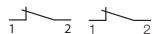
MUSHROOM HEAD \varnothing 40 - MAINTAINED

Push-pull to reset


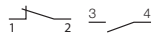
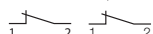


LBX101910



● Red	NC		EMERGENCY STOP	LBX101910
● Red	NC + NO		EMERGENCY STOP	LBX130004
● Red	2 NC		EMERGENCY STOP	LBX130003

WITH STOP STOP STOP TEXT ON BUTTON HEAD

● Red	NC		EMERGENCY STOP	LBX101910S
● Red	NC + NO		EMERGENCY STOP	LBX130074
● Red	2 NC		EMERGENCY STOP	LBX130075

For contact blocks attached to operator please contact us.



LBX101910S

Control Stations Ø 22

▶ CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p.106)

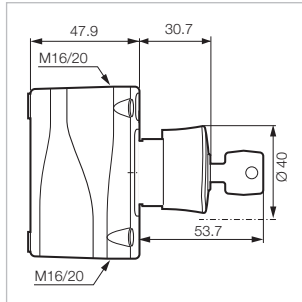
MUSHROOM HEAD Ø 40 - MAINTAINED

Key to reset


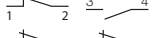
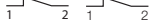
Part Number



LBX11210



Supplied with 2 keys profile n° 455

● Red	NC		EMERGENCY STOP	LBX11210
● Red	NC + NO		EMERGENCY STOP	LBX130071
● Red	2 NC		EMERGENCY STOP	LBX130072

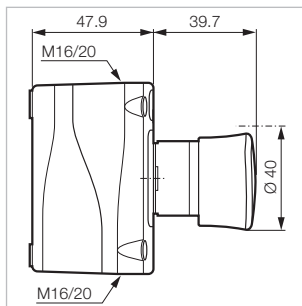
For contact blocks attached to operator please contact us.

MUSHROOM HEAD Ø 40 ISO 13850



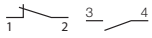

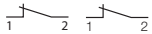

Push-turn to reset




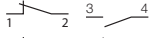
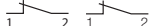
LBX17301



Compliant with the requirements of emergency stop: ISO 13850

● Red	NC		EMERGENCY STOP + 	LBX17301
● Red	NC + NO		EMERGENCY STOP + 	LBX17311
● Red	2 NC		EMERGENCY STOP + 	LBX17302

WITH EN13850 SYMBOL ON BUTTON HEAD

● Red	NC		EMERGENCY STOP	LBX130065
● Red	NC + NO		EMERGENCY STOP	LBX130057
● Red	2 NC		EMERGENCY STOP	LBX130066

WITH EMO TEXT ON BUTTON HEAD (WITHOUT EMERGENCY STOP ON ENCLOSURE)

● Red	NC			LBX130067
● Red	NC + NO			LBX130068
● Red	2 NC			LBX130069



LBX130057



LBX130069

For contact blocks attached to operator please contact us.

Control Stations Ø 22

► CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p. 106)

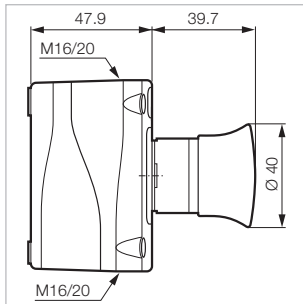
MUSHROOM HEAD Ø 40 ISO 13850

Push-pull to reset



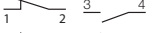

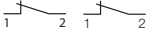

Part Number



LBX15301



Compliant with the requirements of emergency stop:
ISO 13850

- | | | | | |
|-------|---------|--|--|-----------------|
| ● Red | NC |  | EMERGENCY STOP +  | LBX15301 |
| ● Red | NC + NO |  | EMERGENCY STOP +  | LBX15311 |
| ● Red | 2 NC |  | EMERGENCY STOP +  | LBX15302 |

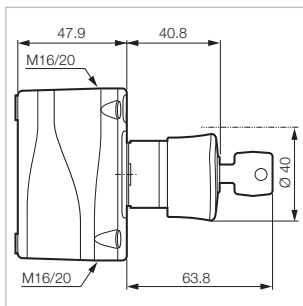
For contact blocks attached to operator please contact us.

MUSHROOM HEAD Ø 40 ISO 13850



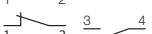

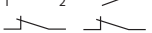

Key to reset



LBX11302



Compliant with the requirements of emergency stop:
ISO 13850
Supplied with 2 keys profile n° 455

- | | | | | |
|-------|---------|--|--|-----------------|
| ● Red | NC |  | EMERGENCY STOP +  | LBX11301 |
| ● Red | NC + NO |  | EMERGENCY STOP +  | LBX11311 |
| ● Red | 2 NC |  | EMERGENCY STOP +  | LBX11302 |

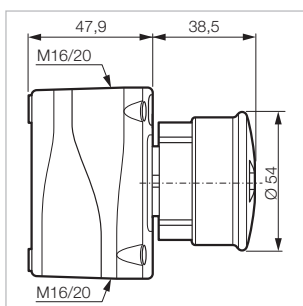
For contact blocks attached to operator please contact us.

MUSHROOM HEAD Ø 54 ISO 13850



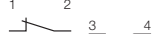

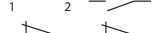

Push-pull to reset with flag indicator



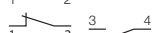

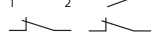



LBX14201



Compliant with the requirements of emergency stop:
ISO 13850
Double position indicator: head and collar

- | | | | | |
|-------|---------|--|---|-----------------|
| ● Red | NC |  |  | LBX14101 |
| ● Red | NC + NO |  |  | LBX14111 |
| ● Red | 2 NC |  |  | LBX14102 |

- | | | | | |
|-------|---------|--|--|-----------------|
| ● Red | NC |  | STOP -  | LBX14201 |
| ● Red | NC + NO |  | STOP -  | LBX14211 |
| ● Red | 2 NC |  | STOP -  | LBX14202 |

For contact blocks attached to operator please contact us.

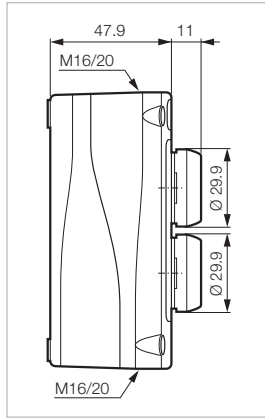
Control Stations \varnothing 22

► CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p.106)

SPRING RETURN - FLUSH

Part Number



- Green
- Red

NO
NC



Marking

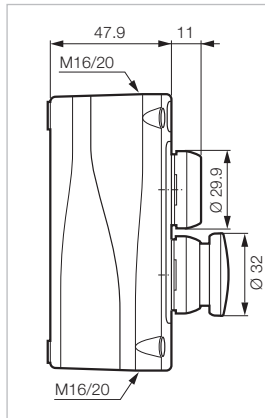


LBX20120

LBX20120

SPRING RETURN - FLUSH/MUSHROOM

Marking



- Green
- Red

NO
NC

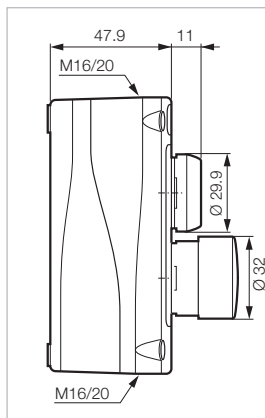


LBX210660

LBX210660

SPRING RETURN/MAINTAINED - FLUSH/MUSHROOM (PUSH-TURN)

Marking



- Green
- Red

NO
NC



LBX210770

LBX210770

Control Stations ø 22

▶ CONTROL STATIONS - NON-ILLUMINATED

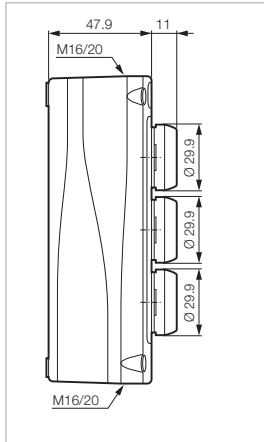
 Technical Info (p. 106)



SPRING RETURN - FLUSH

Part Number



LBX323870





● Red 24VAC/DC Pilot Light
 ● Green NO 
 ● Red NC 

Marking





LBX30008

● Red 130VAC Pilot Light
 ● Green NO 
 ● Red NC 

Marking



LBX323870

● Red 230VAC Pilot Light
 ● Green NO 
 ● Red NC 

Marking

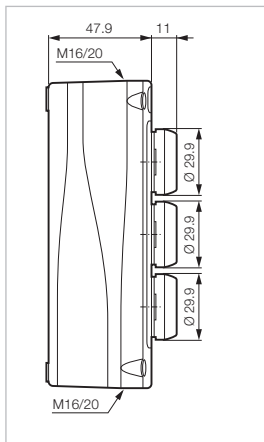





LBX324110

SPRING RETURN - FLUSH



LBX30430



● Green NO 
 ● Red NC 
 ● Green NO 

Marking

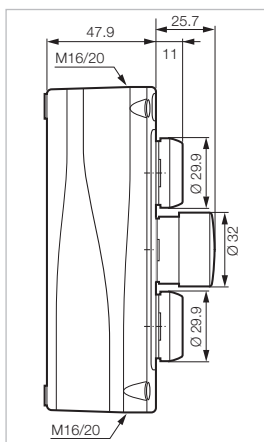





LBX30430

SPRING RETURN /MAINTAINED - FLUSH/MUSHROOM (PUSH-TURN)



LBX308830



● Green NO 
 ● Red NC 
 ● Green NO 

Marking



LBX308830

Control Stations \varnothing 22

▶ EMPTY ENCLOSURES

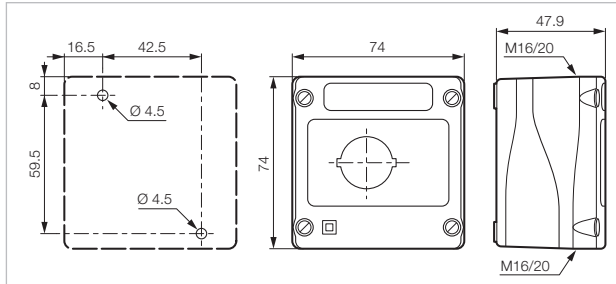
 Technical Info (p.106)

1 HOLE

Part Number



LBX0100J



Black base

- Grey cover
- Yellow cover
- Yellow cover*
- Yellow cover**
- Black cover
- Red cover

- LBX0100
- LBX0100J
- LBX0100JB
- LBX130167
- LBX0100NR
- LBX0100RN

* WITH 'EMERGENCY STOP' TEXT
 * WITH IEC 60417-5438 / ISO 13850 SYMBOL 

Red base

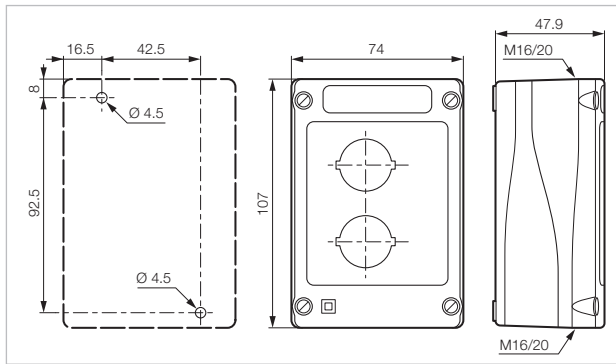
- Red cover

- LBX0100RG

2 HOLES



LBX0200



Black base

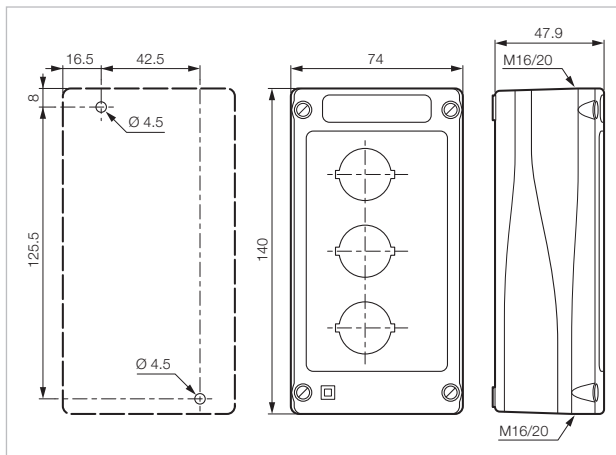
- Grey cover
- Yellow cover

- LBX0200
- LBX0200J

3 HOLES



LBX0300



Black base

- Grey cover

- LBX0300

Control Stations \varnothing 22

▶ EMPTY ENCLOSURES

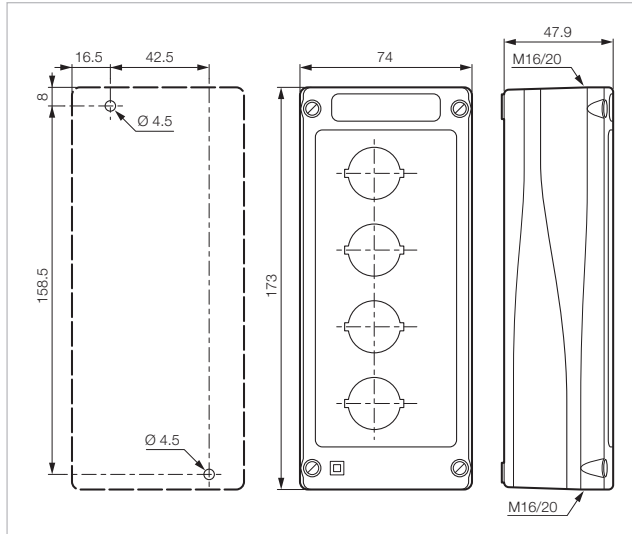
 Technical Info (p. 106)

4 HOLES

Part Number



LBX0400



Black base

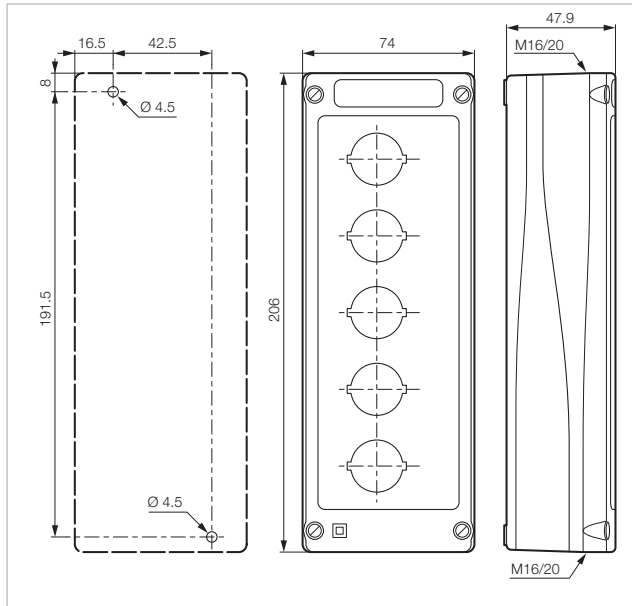
- Grey cover

LBX0400

5 HOLES



LBX0500



Black base

- Grey cover

LBX0500

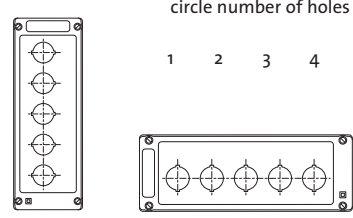
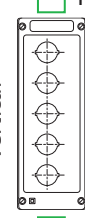
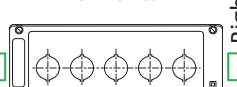
CABLE GLAND FOR LBX ENCLOSURES



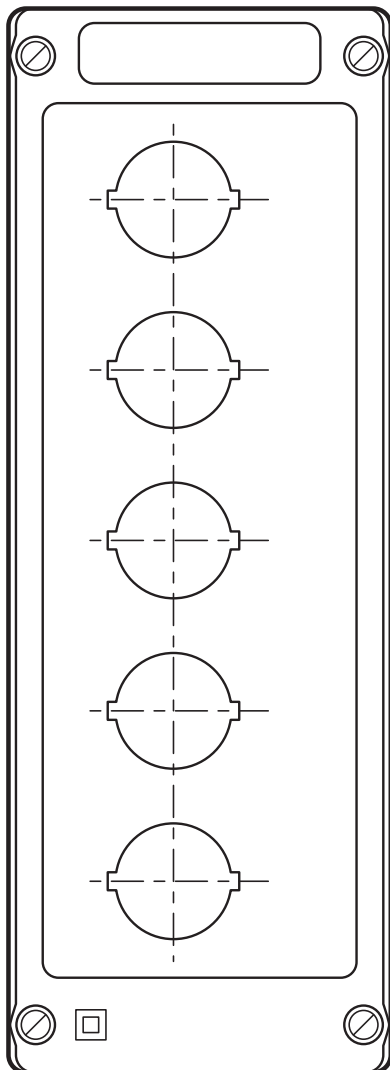
M20-BK

	Size	Cable Thickness	
● Black	M20	6mm - 12mm	M20-BK

LBX ENCLOSURE SPECIAL REQUEST FORM

MOUNTING NUMBER OF HOLES	CABLE GLAND	COMMENTS
<div style="text-align: center;">circle number of holes</div> <div style="text-align: center;">1 2 3 4 5</div>  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <input type="checkbox"/> Top  <input type="checkbox"/> Bottom </div> <div style="text-align: center;"> Horizontal  </div> </div>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

DUTY LABEL MARKING <small>(contact us for details)</small>	BLOCKS	SWITCHES	LEGEND PLATES	ENCLOSURE MARKING
--	---------------	-----------------	----------------------	--------------------------



Enter contact block part number in each mounting position. LED modules must be in position 3.

2
3
1

2
3
1

2
3
1

2
3
1

2
3
1

Enter switch part number for each position. For text or symbol on the switch head enter text or symbol code.

Switch Part Number:
Text or Symbol code:

Switch Part Number:
Text or Symbol code:

Switch Part Number:
Text or Symbol code:

Switch Part Number:
Text or Symbol code:

Switch Part Number:
Text or Symbol code:

Enter legend plate part number for each position. See page 101 for available legend plates. For text or symbol on the legend plate enter text or symbol code.

Legend Plate Part number:
Text or Symbol code:

Legend Plate Part number:
Text or Symbol code:

Legend Plate Part number:
Text or Symbol code:

Legend Plate Part number:
Text or Symbol code:

Legend Plate Part number:
Text or Symbol code:

For silk-screened text or symbol directly on the enclosure enter text or symbol code.

Text or Symbol code:

Text or Symbol code:

Text or Symbol code:

Text or Symbol code:



Text or Symbol code:



See pages 80 to 83 for available text and symbol options. For custom text or symbols please contact us.



Control Stations \varnothing 22

► CONTROL STATIONS - MUSHROOM BUTTONS WITH GUARDS

 Technical Info (p. 106)

MUSHROOM HEAD \varnothing 40	Push-pull to reset	No Guard Part Number	Padlockable Guard Part Number	Half Guard Part Number
				
LSS15301				
				
LSS15301G				
	<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LSS15301 LSS15311 LSS15302</p>	<p>LSS15301G LSS15311G LSS15302G</p>	<p>LSS15301G2 LSS15311G2 LSS15302G2</p>



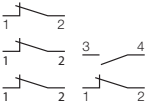
MUSHROOM HEAD \varnothing 40	Push-turn to reset	No Guard Part Number	Padlockable Guard Part Number	Half Guard Part Number
				
LSS17301				
				
LSS17301G2				
	<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LSS17301 LSS17311 LSS17302</p>	<p>LSS17301G LSS17311G LSS17302G</p>	<p>LSS17301G2 LSS17311G2 LSS17302G2</p>



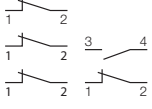
MUSHROOM HEAD \varnothing 40	Push-key to reset	No Guard Part Number	Padlockable Guard Part Number	Half Guard Part Number
				
LSS11301G				
				
LSS11301G2				
	<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LSS11301 LSS11311 LSS11302</p>	<p>LSS11301G LSS11311G LSS11302G</p>	<p>LSS11301G2 LSS11311G2 LSS11302G2</p>



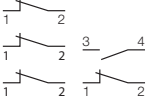
Control Stations \varnothing 22

▶ CONTROL STATIONS - EMERGENCY STOPS WITH GUARDS

 Technical Info (p. 106)

MUSHROOM HEAD \varnothing 40		Push-pull to reset	Padlockable Guard Part Number	Half Guard Part Number
		<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LBPA15301G LBPA15311G LBPA15302G</p>	<p>LBPA15301G2 LBPA15311G2 LBPA15302G2</p>
LBX15301	LBX15301			

MUSHROOM HEAD \varnothing 40		Push-turn to reset	Padlockable Guard Part Number	Half Guard Part Number
		<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LBPA17301G LBPA17311G LBPA17302G</p>	<p>LBPA17301G2 LBPA17311G2 LBPA17302G2</p>
LBX17301	LBX17301			

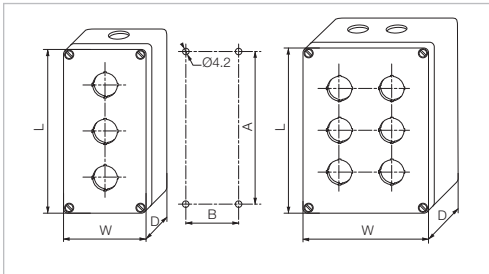
MUSHROOM HEAD \varnothing 40		Push-key to reset	Padlockable Guard Part Number	Half Guard Part Number
		<ul style="list-style-type: none"> ● Red NC ● Red NC + NO ● Red 2 NC 	<p>LBPA11301G LBPA11311G LBPA11302G</p>	<p>LBPA11301G2 LBPA11311G2 LBPA11302G2</p>
LBX17301	LBX17301			

Control Stations \varnothing 22

► PRE-DRILLED POLYCARBONATE ENCLOSURES



BPA202



Number of Holes	Cable Gland Hole Entries	Dimensions (mm)					Part Number
		L	W	D	A	B	
1	1 x PG13-GY	82	80	55	70	50	BPA201
2	1 x PG13-GY	120	80	55	108	50	BPA202
3	1 x PG13-GY	160	80	55	148	50	BPA203
1	1 x PG16-GY	82	80	85	70	50	BPP201
2	1 x PG16-GY	120	80	85	108	50	BPP202
3	1 x PG16-GY	160	80	85	148	50	BPP203
4	2 x PG16-GY	122	120	85	110	90	BPP204
6	2 x PG16-GY	200	120	75	188	90	BPA206
8	2 x PG16-GY	200	120	75	188	90	BPA208
10	2 x PG16-GY	240	120	100	288	90	BPP210

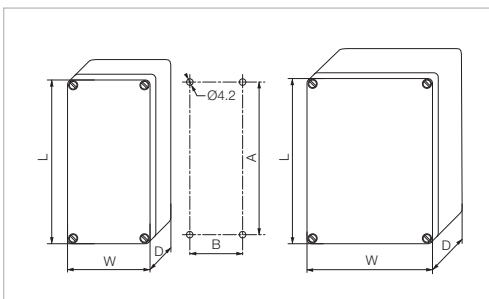
► EMPTY POLYCARBONATE ENCLOSURES



BNT220



BNT251



L	W	D	Dimensions (mm)		Part Number
			A	B	
65	50	35	53	38	BNT206
82	80	55	70	50	BNT210
82	80	85	70	50	BNT225
120	80	55	108	50	BNT215
120	80	85	108	50	BNT226
122	120	55	110	90	BNT217
122	120	85	110	90	BNT227
160	80	55	148	50	BNT220
160	80	85	148	50	BNT231
200	120	75	188	90	BNT237
200	150	75	188	119	BNT223
240	120	100	228	90	BNT242
240	160	120	228	130	BNT243
250	160	90	238	130	BNT240

CABLE GLANDS



PG16-GY

Size	Cable Thickness	Part Number
● Grey PG11	3mm - 7mm	PG11-GY
● Grey PG13.5	6mm - 12mm	PG13-GY
● Grey PG16	10mm - 14mm	PG16-GY
● Grey PG21	13mm - 18mm	PG21-GY
● Grey PG29	18mm - 25mm	PG29-GY

Technical Specifications

▶ GENERAL

Characteristics	Data	Standards
▶ Storage temperature	- 40 °C to + 70 °C	
▶ Operating temperature	- 25 °C to + 70 °C	
▶ Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
▶ Degree of protection	IP 65 for adjustable mechanical actuators IP 65 for USB interface IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 69 and IP 69k for pushbuttons (except twin/triple touch) IP 69 and IP 69k for selector switches IP 69 and IP 69k for pilot lights IP 69 and IP 69k for emergency stops IP 69 and IP 69k for audible warning buzzers IP20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 IEC 60529 IEC 60529 IEC 60529 IEC 60529 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 NEMA standard
z		
▶ Protection against mechanical impacts	IK 05 illuminated and non-illuminated heads IK 07 empty control station	IEC 62262
▶ Electrical insulation	Class II - heads and control station	IEC 60947-5-1
▶ Terminal marking		IEC 60947-1
▶ Tightening torques	Locking ring: recommended 3 N.m or tightened with the fixing tool to hand tight after pressure point plus another half turn. terminals: max. 1.2 N.m	
▶ Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
▶ Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

Technical Specifications

▶ HEADS

Characteristics	Data
▶ Mechanical endurance	Spring return: 5,000,000 Push-push: 500,000 Selector switches: 300,000 Mushroom head maintained function ISO 13850: 100,000 Mushroom head maintained function: 150,000
▶ Activation force in N	Spring return + NO: 6.5 Spring return + NC: 4.5 Additional NO contact: 4.5 Additional NC contact: 3.0 Push-pull mushroom head + NO + NC: 27 Push-turn mushroom head + NO + NC: 22 Push-pull mushroom head EN 418 + NO + NC: 37 Push-turn mushroom head EN 418 + NO + NC: 60
▶ Activation force in Nm	Selector switch + NO: 0.04 Additional NO contact: 0.03

▶ EMERGENCY STOP ACTUATORS - ISO 13850:

According to IEC60947-5-5, the emergency stop function can be provided by an ISO13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our ISO13850 mushroom heads is so designed that a "push" action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an "emergency stop" signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull, turn or unlocking by key).

This function allows the generation of an "emergency stop" signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

The ISO13850 mushroom heads also comply with the safety requirements detailed in standard ISO13850.

Technical Specifications

▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data	Standards																																									
▶ Rated insulation voltage	690 V AC 600 V AC	IEC/EN 60947-1 UL 508																																									
▶ NC contacts	Positive opening	IEC/EN 60947-5-1																																									
▶ Rated impulse voltage Uimp Pollution degree	6kV 3																																										
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2.5 A	IEC 60947-5-1																																									
▶ Electrical ratings	<p>Alternating current AC15 - A 600 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Ue = 380 V, Ie = 1.9 A Ue = 480 V, Ie = 1.5 A Ue = 500 V, Ie = 1.4 A Ue = 600 V, Ie = 1.2 A</p> <p>Minimum operating current - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p> <p>UL508</p> <p>Alternating Current 50/60Hz - A600 Continuous Current - 10 amps Rated Voltage - 600Vac</p> <table border="1"> <thead> <tr> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> </tr> <tr> <th>Make</th> <th>Break</th> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>60</td> <td>10</td> <td>24</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>120</td> <td>60</td> <td>6.0</td> <td>125</td> <td>0.55</td> <td>0.55</td> </tr> <tr> <td>240</td> <td>30</td> <td>3.0</td> <td>250</td> <td>0.27</td> <td>0.27</td> </tr> <tr> <td>480</td> <td>15</td> <td>1.5</td> <td>301-600</td> <td>0.10</td> <td>0.10</td> </tr> <tr> <td>600</td> <td>12</td> <td>1.2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Voltage	Max. Amps		Voltage	Max. Amps		Make	Break	Make	Break	72	60	10	24	2.5	2.5	120	60	6.0	125	0.55	0.55	240	30	3.0	250	0.27	0.27	480	15	1.5	301-600	0.10	0.10	600	12	1.2				<p>Direct current DC13 - Q 600 Ue = 125 V, Ie = 0.55 A Ue = 250 V, Ie = 0.27 A Ue = 400 V, Ie = 0.15 A Ue = 500 V, Ie = 0.13 A Ue = 600 V, Ie = 0.1 A</p> <p>- gold plated contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10⁻⁸</p> <p>Direct Current - Q600 Continuous Current - 2.5 amps Rated Voltage - 600Vdc</p>	IEC 60947-5-1
Voltage	Max. Amps		Voltage	Max. Amps																																							
	Make	Break		Make	Break																																						
72	60	10	24	2.5	2.5																																						
120	60	6.0	125	0.55	0.55																																						
240	30	3.0	250	0.27	0.27																																						
480	15	1.5	301-600	0.10	0.10																																						
600	12	1.2																																									
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1.5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A</p>																																										
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0.5 mm ² to 2 x 2.5 mm ² Rigid or flexible wire with ferrule: 0.5 mm ² to 2 x 1.5 mm ²																																										

Technical Specifications

▶ CONTACT BLOCKS

Faston connection	Data		Standards																								
▶ Rated insulation voltage	320 V AC 300 V AC		IEC/EN60947-1 UL 508																								
▶ NC contacts	Positive opening		IEC/EN 60947-5-1																								
▶ Rated impulse voltage Uimp Pollution degree	6 kV 3																										
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2.5 A		IEC 60947-5-1																								
▶ Electrical ratings	Alternating current AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Minimum current of use Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸ UL508 Alternating Current 50/60Hz - A300 Continuous Current - 10 amps Rated Voltage - 300Vac <table border="1"> <thead> <tr> <th>Voltage</th> <th>Max. Amps Make</th> <th>Max. Amps Break</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>60</td> <td>10</td> </tr> <tr> <td>120</td> <td>60</td> <td>6.0</td> </tr> <tr> <td>240</td> <td>30</td> <td>3.0</td> </tr> </tbody> </table>	Voltage	Max. Amps Make	Max. Amps Break	72	60	10	120	60	6.0	240	30	3.0	Direct current DC13 - Q 300 Ue = 125 V, Ie = 0.55 A Ue = 250 V, Ie = 0.27 A Direct Current - Q300 Continuous Current - 2.5 amps Rated Voltage - 300Vdc <table border="1"> <thead> <tr> <th>Voltage</th> <th>Max. Amps Make</th> <th>Max. Amps Break</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>125</td> <td>0.55</td> <td>0.55</td> </tr> <tr> <td>250</td> <td>0.27</td> <td>0.27</td> </tr> </tbody> </table>	Voltage	Max. Amps Make	Max. Amps Break	24	2.5	2.5	125	0.55	0.55	250	0.27	0.27	IEC 60947-5-1
Voltage	Max. Amps Make	Max. Amps Break																									
72	60	10																									
120	60	6.0																									
240	30	3.0																									
Voltage	Max. Amps Make	Max. Amps Break																									
24	2.5	2.5																									
125	0.55	0.55																									
250	0.27	0.27																									
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1.5 A - DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A																										
▶ Faston size	6.35 mm (0.25") or 2 x 2.8 mm (0.110")																										

Technical Specifications

▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data	Standards																												
▶ Rated insulation voltage	250 V AC 250 V AC	IEC/EN60947-1 UL 508																												
▶ NC contacts	Positive opening	IEC/EN 60947-5-1																												
▶ Rated impulse voltage Uimp Pollution degree	4 kV 3																													
▶ Conventional thermal current in free air conditions	AC 15: 5 A DC 13: 1 A	IEC 60947-5-1																												
▶ Electrical ratings	<p>Alternating current AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>Minimum current of use - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p> <p>UL508</p> <p>Alternating Current 50/60Hz - B300 Continuous Current - 5 amps Rated Voltage - 300Vac</p> <table border="1"> <thead> <tr> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> <th rowspan="2">Voltage</th> <th colspan="2">Max. Amps</th> </tr> <tr> <th>Make</th> <th>Break</th> <th>Make</th> <th>Break</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>30</td> <td>5.0</td> <td>24</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>120</td> <td>30</td> <td>3.0</td> <td>125</td> <td>0.22</td> <td>0.22</td> </tr> <tr> <td>240</td> <td>15</td> <td>1.5</td> <td>250</td> <td>0.11</td> <td>0.11</td> </tr> </tbody> </table>	Voltage	Max. Amps		Voltage	Max. Amps		Make	Break	Make	Break	72	30	5.0	24	1.0	1.0	120	30	3.0	125	0.22	0.22	240	15	1.5	250	0.11	0.11	<p>Direct current DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A</p> <p>IEC 60947-5-1 IEC 60947-5-4</p> <p>- gold plated contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10⁻⁸</p> <p>Direct Current - R300 Continuous Current - 1 amp Rated Voltage - 300Vdc</p>
Voltage	Max. Amps		Voltage	Max. Amps																										
	Make	Break		Make	Break																									
72	30	5.0	24	1.0	1.0																									
120	30	3.0	125	0.22	0.22																									
240	15	1.5	250	0.11	0.11																									
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0.22 A Ue = 250 V, Ie = 0.1 A</p>																													
▶ Pin diameter	∅ 1 mm																													

Technical Specifications

▶ LED BLOCKS FOR ILLUMINATED HEADS

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC/EN 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 70) 3	IEC/EN 60947-1
▶ Operating voltage	12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red and yellow: 100 000 hours at 25 °C Other colors: 50 000 hours at 25 °C	
▶ Consumption of LED blocks	Voltage:	- 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%

▶ ONE PIECE PILOT LIGHT WITH INTEGRATED LED

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 60947-5-1
▶ Rated impulse withstand voltage Uimp	4 kV	IEC/EN 60947-1
▶ Bulb rating	400 V max. - 2.6 W max. 240 V max. - 2.6 W max.	IEC 60947-5-1 UL 508
▶ Lifetime at rated supply voltage	Red: 100 000 hours at 25 °C Other colors: 50 000 hours at 25 °C	

Technical Specifications

▶ USB INTERFACE 3.0

Characteristics	Data	Standards
▶ Rated insulation voltage	5 V AC/DC	IEC 60947-5-1
▶ Rated Current	1.8 A	IEC 60947-5-1
▶ Insulation resistance	≥ 100 M	
▶ Contact resistance	≤ 30 M	
▶ USB Class	3.0 (backward compatible with USB class 2.0)	
▶ Data Transmission	5 Gbps (625 MB/sec)	
▶ Recommended Fixing Tool	Tightening flat wrench size 26mm	

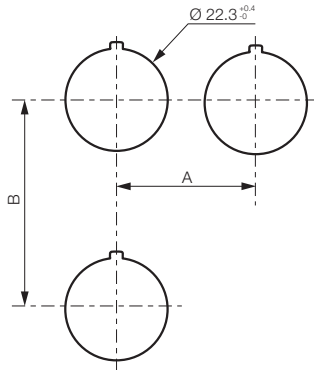
▶ AUDIBLE WARNING BUZZERS

Characteristics	Data	Standards
▶ Supply Voltage	18 to 30 V AC/DC 85 to 140 V AC/DC 185 to 265 V AC/DC	IEC 60947-5-1
▶ Rated impulse voltage Uimp	4 KV	IEC 60947-5-1
▶ Sound Power	80 dB @ 10cm	
▶ Frequency	50 or 60 Hz	
▶ Maximum power consumption	≤ 20 mA	
▶ Lifetime at rated supply voltage	30,000 hours (continuously powered)	
▶ Recommended Fixing Tool	Tightening flat wrench size 26mm	
▶ Wiring Connections	Pulse Tone - Wire terminals 1 and C Continuous Tone - Wire terminals 3 and C	

Technical Specifications

▶ PANEL CUT-OUT

DRILLING

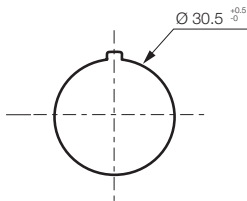


For heads equipped with electrical blocks with screw or plug-in terminals

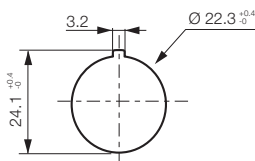
Minimum interval (mm)

	= 30	With or without legend (usual case)
	= 33	IP 67 (silicon shroud)
	= 40	With large legend plate
A	> 40	For mushroom head \varnothing 40
	> 45	For selector switch with long handle
	= 38	For super-flush button
	= 50	With 5 position clip
B	= 45	With or without legend plate (usual case)
	= 54	With double touch
	= 77	With double touch + legend plate
	= 50	Joystick

DRILLING FOR SUPER-FLUSH BUTTON

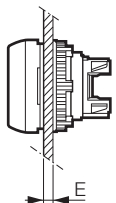


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



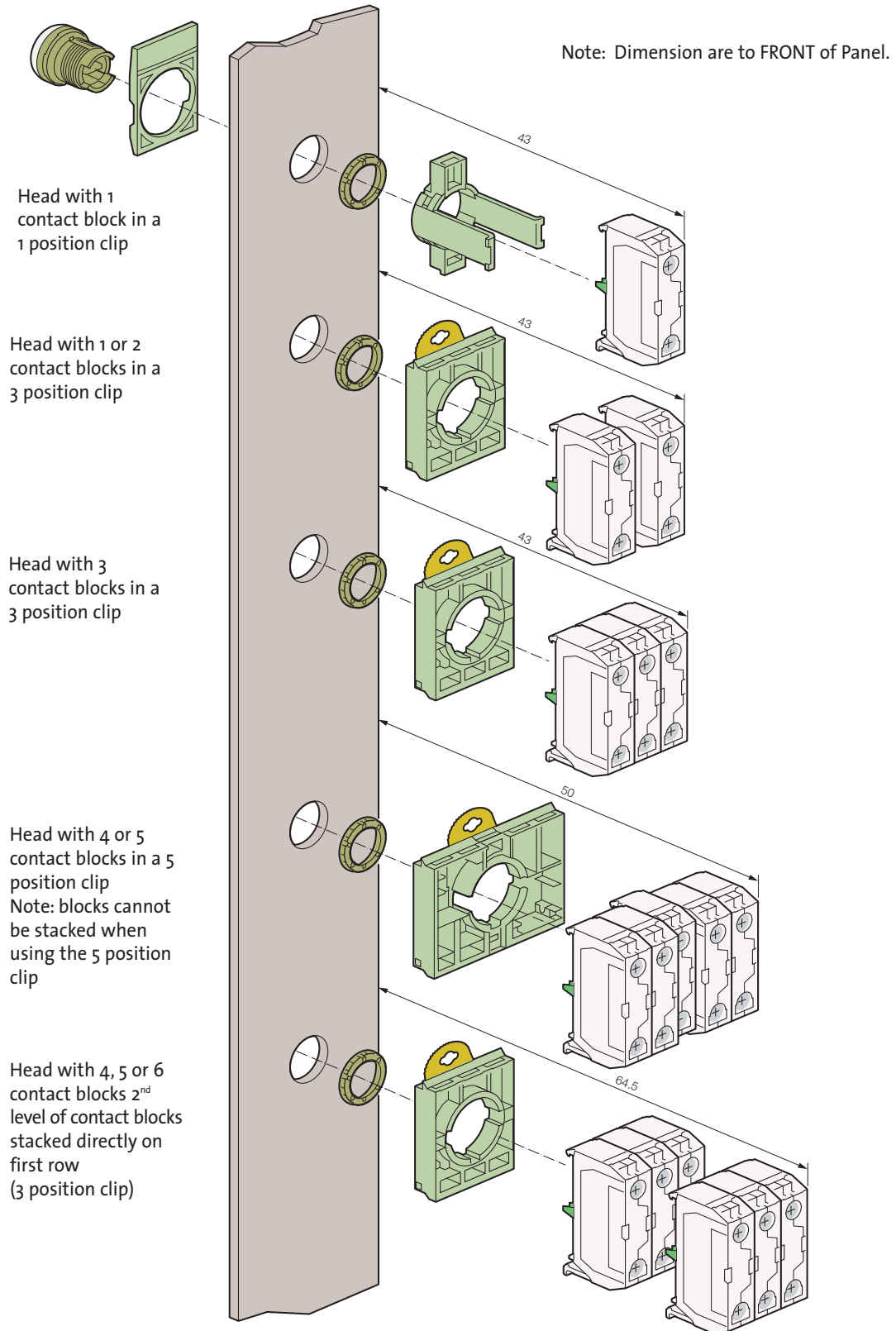
THICKNESS OF PANEL (E)

E = 1 to 6 mm



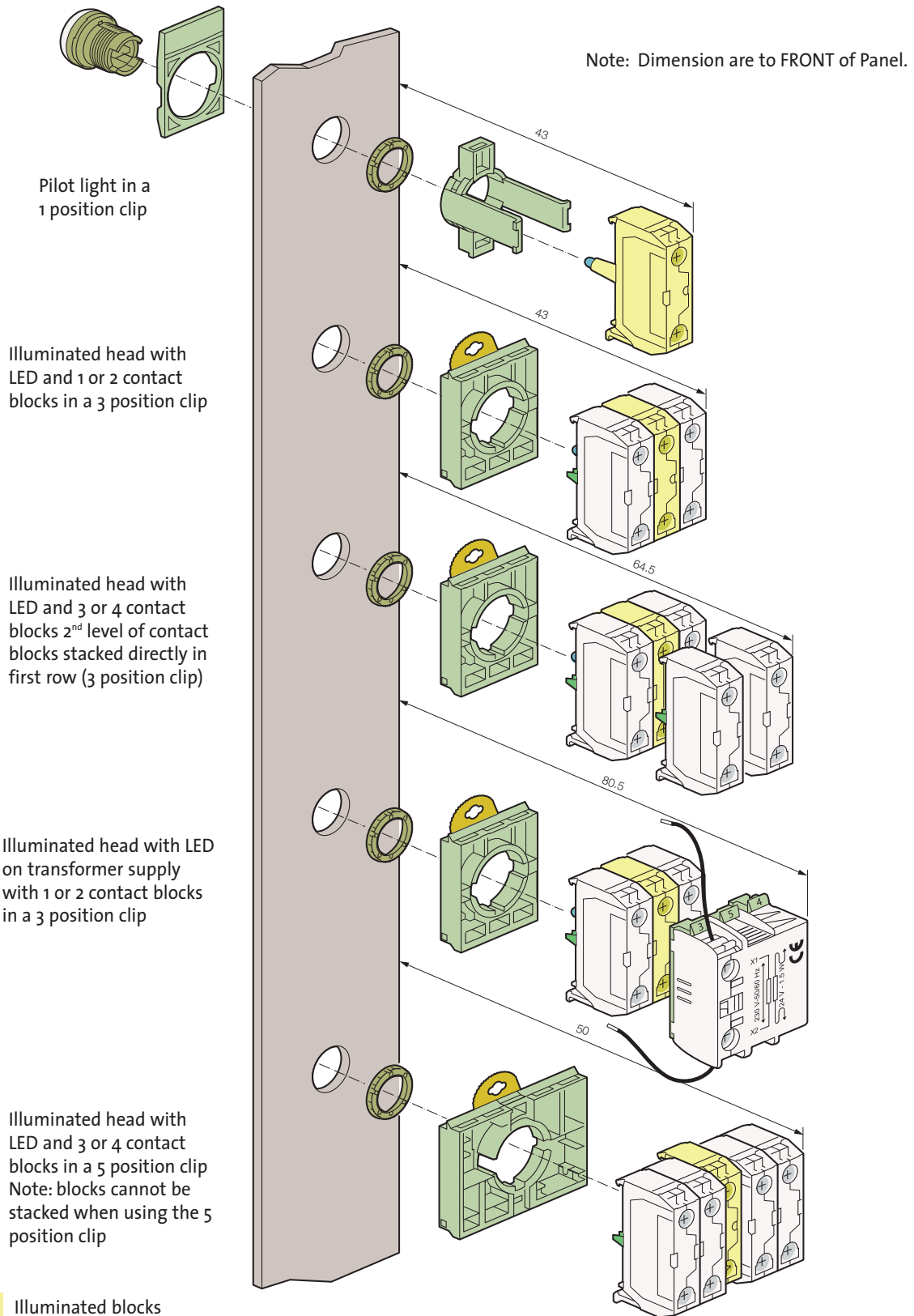
Technical Specifications

NON-ILLUMINATED



Technical Specifications

ILLUMINATED

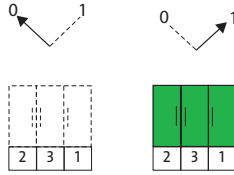


Technical Specifications

MECHANICAL OPERATION - 2 POSITION SELECTOR SWITCHES

For 2 position selector switches

Handle position
(view from front of panel)



Contacts block actuation
(clip position)

Non operated block



Operated block



333E10			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X

333E01			
MODULE PART No.	CLIP POSITION	0	1
33E01	2	X	O

333E11			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E01	2	X	O

333E20			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E10	2	O	X

333E02			
MODULE PART No.	CLIP POSITION	0	1
33E01	1	X	O
33E01	2	X	O

333E12			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E01	2	X	O
33E01	3	X	O

333E30			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E10	2	O	X
33E10	3	O	X

333E03			
MODULE PART No.	CLIP POSITION	0	1
33E01	1	X	O
33E01	2	X	O
33E01	3	X	O

333E21			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E01	2	X	O
33E10	3	O	X

333E22			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E10	2	O	X
33E01	4	X	O
33E01	5	X	O

334E22			
MODULE PART No.	CLIP POSITION	0	1
33E11	1	O	X
		X	O
33E11	2	O	X
		X	O

335E22A			
MODULE PART No.	CLIP POSITION	0	1
33E01	1	X	O
33E01	2	X	O
33E10	4	O	X
33E10	5	O	X

333E33			
MODULE PART No.	CLIP POSITION	0	1
33E10	1	O	X
33E10	2	O	X
33E10	3	O	X
33E01	4	X	O
33E01	5	X	O
33E01	6	X	O

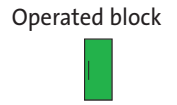
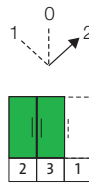
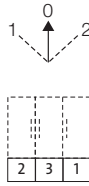
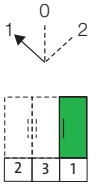
Technical Specifications

MECHANICAL OPERATION - 3 POSITION SELECTOR SWITCHES

For 3 position selector switches

Handle position
(view from front of panel)

Contacts block actuation
(clip position)



333E20				
MODULE PART No.	CLIP POSITION	1	0	2
33E10	1	X	O	O
33E10	2	O	O	X

333E02				
MODULE PART No.	CLIP POSITION	1	0	2
33E01	1	O	X	X
33E01	2	X	X	O

333E11				
MODULE PART No.	CLIP POSITION	1	0	2
33E10	1	X	O	O
33E01	2	X	X	O

333E11A				
MODULE PART No.	CLIP POSITION	1	0	2
33E01	1	O	X	X
33E10	2	O	O	X

333E30				
MODULE PART No.	CLIP POSITION	1	0	2
33E10	1	X	O	O
33E10	2	O	O	X
33E10	3	O	O	X

334E22				
MODULE PART No.	CLIP POSITION	1	0	2
33E11	1	X	O	O
		O	X	X
33E11	2	O	O	X
		X	X	O

333E22				
MODULE PART No.	CLIP POSITION	1	0	2
33E10	1	X	O	O
33E10	2	O	O	X
33E01	4	O	X	X
33E01	5	X	X	O

335E22A				
MODULE PART No.	CLIP POSITION	1	0	2
33E01	1	O	X	X
33E01	2	X	X	O
33E10	4	O	O	X
33E10	5	X	O	O

Technical Specifications

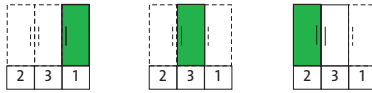
MECHANICAL OPERATION - TWIN/TRIPLE TOUCH

For twin/triple touch switches

Operator View
(highlighted button is depressed)



Contacts block actuation
(clip position)



Non operated block



Operated block



MECHANICAL OPERATION - JOYSTICKS

For Joysticks

2 position

TWO BLOCK CLIP (LME3 - STANDARD WITH JOYSTICK HEAD)

LM11 in Clip Location	Terminal Numbers	Position		
		A	O	B
1	3-4	X	O	O
	1-2	O	O	X
2	3-4	O	O	X
	1-2	X	O	O

A
|
O
|
B

4 position

TWO BLOCK CLIP (LME3 - STANDARD WITH JOYSTICK HEAD)

LM11 in Clip Location	Terminal Numbers	Position				
		A	B	O	C	D
1	3-4	O	O	O	O	X
	1-2	O	O	O	X	O
2	3-4	O	X	O	O	O
	1-2	X	O	O	O	O

A
|
C - O - D
|
B

FOUR BLOCK CLIP (LME5)

LM11 in Clip Location	Terminal Numbers	Position		
		A	O	B
1	3-4	X	O	O
	1-2	O	O	X
2	3-4	O	O	X
	1-2	X	O	O
3	3-4	X	O	O
	1-2	O	O	X
4	3-4	O	O	X
	1-2	X	O	O

A
|
O
|
B

FOUR BLOCK CLIP (LME5)

LM11 in Clip Location	Terminal Numbers	Position				
		A	B	O	C	D
1	3-4	O	O	O	O	X
	1-2	O	O	O	X	O
2	3-4	O	X	O	O	O
	1-2	X	O	O	O	O
3	3-4	O	O	O	O	X
	1-2	O	O	O	X	O
4	3-4	O	X	O	O	O
	1-2	X	O	O	O	O

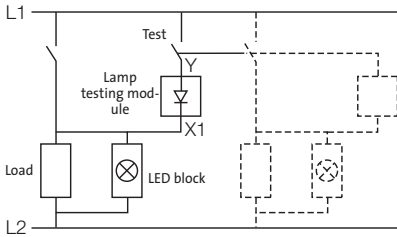
A
|
C - O - D
|
B

Technical Specifications

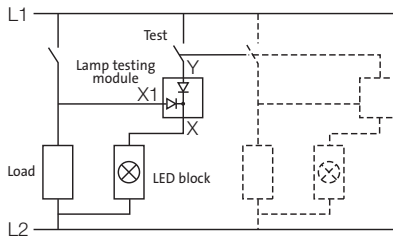
▶ DIAGRAMS

PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

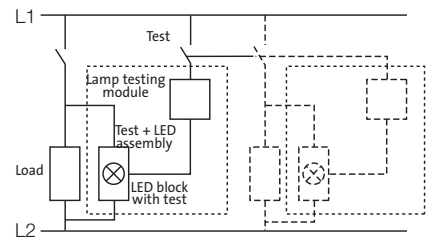
Lamp-testing module with 1 diode (33ET) for direct supply 24 V and 48V



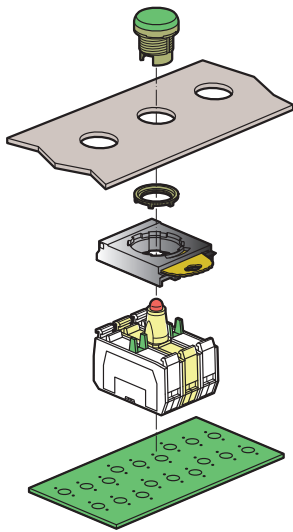
Lamp-testing module with 2 diodes (33ETT) for direct supply 24 V and 48 V



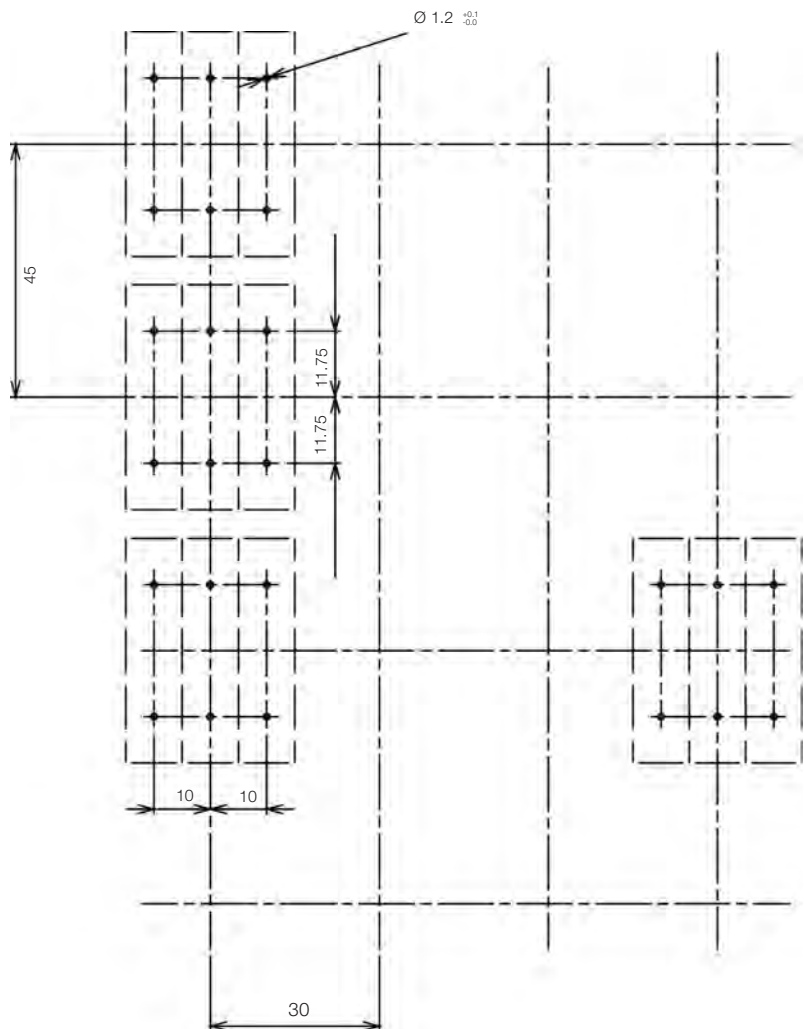
Lamp-testing assembly for direct supply 130 V and 240 V



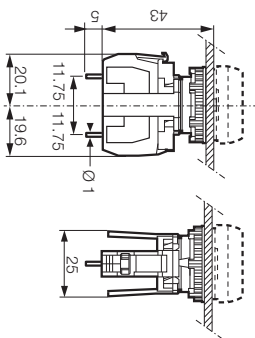
PRINTED CIRCUIT BOARD MOUNTING



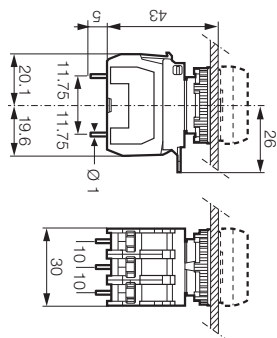
PCB BOARD DRILL PLAN



PCB TERMINAL - SINGLE CLIP



PCB TERMINAL - 3 POSITION CLIP



Baco simplifies your choice



--- **AA** -- definition of **function**

T11 AA -- choice of **bezel**

T11 AA **02** color of **head**

▶ HEAD COLOR CODES

01 ● red	04 ● yellow
02 ● green	05 ○ white
03 ● black	06 ● blue

▶ BEZEL CODES

T11	chrome brilliant plastic
T12	black plastic
T13	grey plastic
T14	Chrome brass
T16	Matt chrome plastic

▶ ADVANTAGES

- Ø 30 heads use the same clips and blocks as Ø 22 heads
- Fully compatible with the new Ø 22 range
- Wide choice of bezels

Complete units: Part Numbering System

► NON-ILLUMINATED COMPLETE UNITS

T11AA01 - **3** **E** **1** **1** **Y7**
a b c d e

Part number of non-illuminated operator head.
 See pages 133 to 139 for non-illuminated operator heads.

a

CLIP	
Code	Description
1	single module
3	three modules
4	three modules (when using 33E11 contact blocks)
5	five modules

b

TERMINAL STYLE	
Code	Description
E	Screw and Clamp
ED	Stab (Quick Connect)
EP	PCB
ER	Plug In

c

N.O. (NORMALLY OPEN) CONTACTS	
Code	Description
0	No Contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.
5	5 N.O.
6	6 N.O.

d

N.C. (NORMALLY CLOSED) CONTACTS	
Code	Description
0	No Contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.
5	5 N.C.
6	6 N.C.

e

SPECIALTY BLOCKS	
Code	Description
C	Late Break N.C. (Screw and Clamp terminals only)
Y7	Gold Plated Contacts (Screw and Clamp or PCB terminals only)

Complete units: Pushbuttons ϕ 30MM

► SPRING RETURN - NON-ILLUMINATED

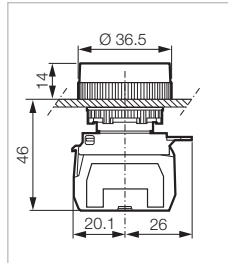
 Technical Info (p. 154)

FLUSH

Chrome Bezel
Part Number



T11AA02-3E10



● Red	NC
● Green	NO
● Black	NC
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

T11AA01-3E01
T11AA02-3E10
T11AA03-3E01
T11AA03-3E10
T11AA04-3E10
T11AA05-3E10
T11AA06-3E10

● Red	NO + NC
● Green	NO + NC
● Black	NO + NC
● Yellow	NO + NC
○ White	NO + NC
● Blue	NO + NC

T11AA01-3E11
T11AA02-3E11
T11AA03-3E11
T11AA04-3E11
T11AA05-3E11
T11AA06-3E11

WITH INTERNATIONAL SYMBOLS

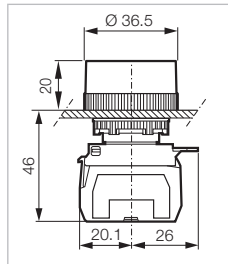
 Red	NC
 Green	NO

T11AA81-3E01
T11AA82-3E10

FLUSH WITH DEEP COLLAR



T15AA03-3E10



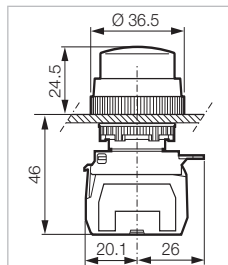
● Red	NC
● Green	NO
● Black	NC
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

T15AA01-3E01
T15AA02-3E10
T15AA03-3E01
T15AA03-3E10
T15AA04-3E10
T15AA05-3E10
T15AA06-3E10

PROJECTING



T11AB01-3E01



● Red	NC
● Green	NO
● Black	NO
● Yellow	NO
○ White	NO
● Blue	NO

T11AB01-3E01
T11AB02-3E10
T11AB03-3E10
T11AB04-3E10
T11AB05-3E10
T11AB06-3E10

Complete units: Pushbuttons ϕ 30MM

► SPRING RETURN - NON-ILLUMINATED

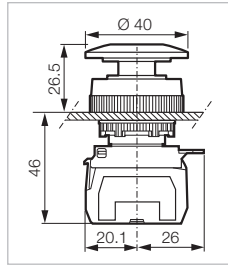
 Technical Info (p. 154)

ϕ 40 MUSHROOM

Chrome Bezel
Part Number



T11AD01-3E01

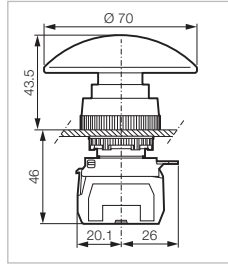


● Red	NC	T11AD01-3E01
● Green	NO	T11AD02-3E10
● Black	NC	T11AD03-3E01
● Black	NO	T11AD03-3E10
● Yellow	NO	T11AD04-3E10
● Red	NO + NC	T11AD01-3E11
● Green	NO + NC	T11AD02-3E11
● Black	NO + NC	T11AD03-3E11
● Yellow	NO + NC	T11AD04-3E11

ϕ 70 MUSHROOM



T11AE01-3E01



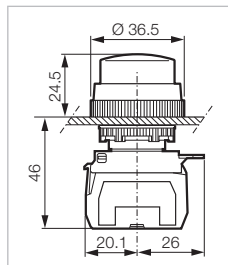
● Red	NC	T11AE01-3E01
● Black	NC	T11AE03-3E01
● Black	NO	T11AE03-3E10

► MAINTAINED - NON-ILLUMINATED

PROJECTING



T11CB02-3E10



● Red	NC	T11CB01-3E01
● Green	NO	T11CB02-3E10
● Black	NC	T11CB03-3E01
● Black	NO	T11CB03-3E10
● Yellow	NO	T11CB04-3E10
○ White	NO	T11CB05-3E10
● Blue	NO	T11CB06-3E10

Complete units: Mushroom heads \varnothing 30mm

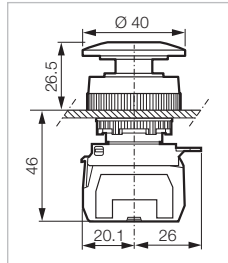
 Technical Info (p. 154)

► MAINTAINED - NON-ILLUMINATED

\varnothing 40 MUSHROOM

Push-pull to reset

Chrome Bezel
Part Number



- Red NC
- Red 2 NC
- Red NO + NC

WITH TEXT

- Red (STOP STOP STOP) NC
- Red (STOP STOP STOP) 2 NC
- Red (STOP STOP STOP) NO + NC

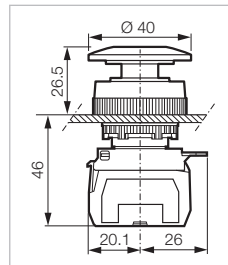
- T11DD01-3E01
- T11DD01-3E02
- T11DD01-3E11

- T11DD01S-3E01
- T11DD01S-3E02
- T11DD01S-3E11

T11DD01-3E01

\varnothing 40 MUSHROOM

Push-turn to reset



- Red NC
- Red 2 NC
- Red NO + NC

WITH TEXT

- Red (STOP STOP STOP) NC
- Red (STOP STOP STOP) 2 NC
- Red (STOP STOP STOP) NO + NC

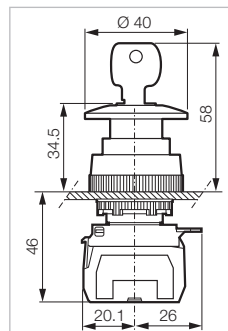
- T11ED01-3E01
- T11ED01-3E02
- T11ED01-3E11

- T11ED01S-3E01
- T11ED01S-3E02
- T11ED01S-3E11

T11ED01-3E11

\varnothing 40 MUSHROOM

Key to reset



Supplied with 2 keys profile n° 455

- Red NC
- Red 2 NC
- Red NO + NC

- T11GM01-3E01
- T11GM01-3E02
- T11GM01-3E11

T11GM01-3E02

Complete units: Selector switches \varnothing 30MM

▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p. 154)

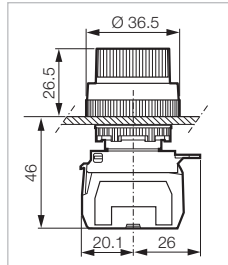
WITH HANDLE

2 positions


Chrome Bezel
Part Number



T11KA03-3E10




Maintained positions - 45°

● Red		NC
● Black		NO
● Black		2 NO
● Black		NO + NC
● Grey		NO


T11KA01-3E01
T11KA03-3E10
T11KA03-3E20
T11KA03-3E11
T11KA08-3E10

Spring Return - 45°

● Red		NC
● Black		NO
● Black		2 NO
● Black		NO + NC
● Grey		NO

T11KB01-3E01
T11KB03-3E10
T11KB03-3E20
T11KB03-3E11
T11KB08-3E10

Maintained positions - 90°

● Red		NC
● Black		NO
● Black		2 NO
● Black		NO + NC
● Grey		NO

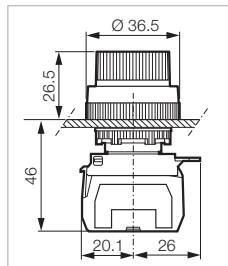
T11KE01-3E01
T11KE03-3E10
T11KE03-3E20
T11KE03-3E11
T11KE08-3E10

WITH HANDLE


3 positions



T11MA03-3E20



Maintained positions - 45°

● Red		2 NO
● Black		2 NO
● Grey		2 NO


T11MA01-3E20
T11MA03-3E20
T11MA08-3E20

Spring return - 45°

● Red		2 NO
● Black		2 NO
● Grey		2 NO

T11MD01-3E20
T11MD03-3E20
T11MD08-3E20

Maintained / Spring Return - 45°

● Red		NO + NC
● Black		NO + NC
● Grey		NO + NC

T11MC01-3E11
T11MC03-3E11
T11MC08-3E11

Complete units: Selector switches \varnothing 30MM

 Technical Info (p. 154)

▶ SELECTOR SWITCHES - NON-ILLUMINATED

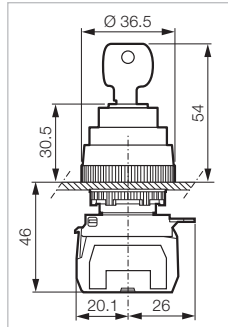
WITH KEY

2 positions

Chrome Bezel
Part Number



T11LA00-3E10



Supplied with 2 keys profile n°455

Maintained positions - 45°
Key free in position 0

- Black NO
- Black 2 NO
- Black NO + NC



T11LA00-3E10
T11LA00-3E20
T11LA00-3E11

Spring Return - 45°
Key free in position 0

- Black NO
- Black 2 NO
- Black NO + NC



T11LB00-3E10
T11LB00-3E20
T11LB00-3E11

Maintained - 90°
Key free in both positions

- Black NO
- Black 2 NO
- Black NO + NC



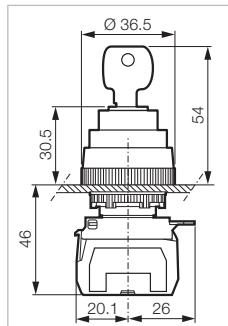
T11LG00-3E10
T11LG00-3E20
T11LG00-3E11

WITH KEY

3 positions



T11NA00-3E20



Supplied with 2 keys profile n°455

Maintained positions - 45°
Key free in position 0

- Black 1 NO
- Black 2 NO



T11NA00-3E20

Spring Return - 45°
Key free in position 0

- Black 1 NO
- Black 2 NO



T11ND00-3E20

Complete units: Part Numbering System

► ILLUMINATED COMPLETE UNITS

T11AH20 - **3** **EA** **G** **M** **1** **1** **Y7**
a b c d e f g

Part number of illuminated operator head.
 See pages 141 to 144 for illuminated operator heads.

a

CLIP	
Code	Description
1	single module
3	three modules
4	three modules (when using 33E11 contact blocks)
5	five modules

b

TERMINAL STYLE	
Code	Description
EA	Screw and Clamp
EDA	Stab (Quick Connect)
EPA	PCB
ERA	Plug In

c

LED COLOR	
Code	Description
R	Red
G	Green
Y	Yellow
W	White
B	Blue

d

LED VOLTAGE	
Code	Description
L	12/24 Vac/dc
L4	48 Vac/dc
M	130 Vac
H	230 Vac

e

N.O. (NORMALLY OPEN) CONTACTS	
Code	Description
o	No Contact
1	1 N.O.
2	2 N.O.
3	3 N.O.
4	4 N.O.

f

N.C. (NORMALLY CLOSED) CONTACTS	
Code	Description
o	No Contact
1	1 N.C.
2	2 N.C.
3	3 N.C.
4	4 N.C.

g

SPECIALTY BLOCKS	
Code	Description
C	Late Break N.C. (Screw and Clamp terminals only)
Y7	Gold Plated Contacts (Screw and Clamp or PCB terminals only)

Complete units: Pushbuttons \varnothing 30MM

► SPRING RETURN - ILLUMINATED

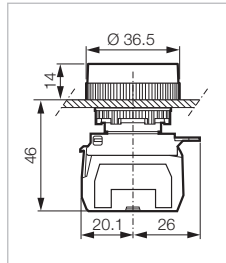
 Technical Info (p.154)

FLUSH

Chrome Bezel
Part Number



T11AH20-3EAGL11



LED blocks
12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T11AH10-3EARL11
T11AH20-3EAGL11
T11AH30-3EAWL11
T11AH40-3EAYL11
T11AH50-3EAWL11
T11AH60-3EABL11

130 Vac

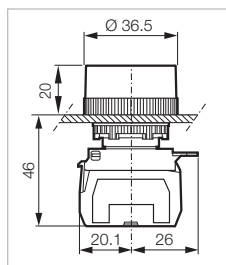
● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T11AH10-3EARM11
T11AH20-3EAGM11
T11AH30-3EAWM11
T11AH40-3EAYM11
T11AH50-3EAWM11
T11AH60-3EABM11

FLUSH



T15AH10-3EARL11



LED blocks
12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T15AH10-3EARL11
T15AH20-3EAGL11
T15AH30-3EAWL11
T15AH40-3EAYL11
T15AH50-3EAWL11
T15AH60-3EABL11

130 Vac

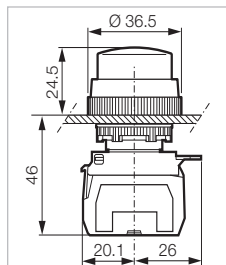
● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T15AH10-3EARM11
T15AH20-3EAGM11
T15AH30-3EAWM11
T15AH40-3EAYM11
T15AH50-3EAWM11
T15AH60-3EABM11

PROJECTING



T11AK40-3EAYM11



LED blocks
12/24 Vac/dc

● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T11AK10-3EARL11
T11AK20-3EAGL11
T11AK30-3EAWL11
T11AK40-3EAYL11
T11AK50-3EAWL11
T11AK60-3EABL11

130 Vac

● Red	NO+NC
● Green	NO+NC
○ Clear	NO+NC
● Yellow	NO+NC
○ White	NO+NC
● Blue	NO+NC

T11AK10-3EARM11
T11AK20-3EAGM11
T11AK30-3EAWM11
T11AK40-3EAYM11
T11AK50-3EAWM11
T11AK60-3EABM11

Complete units: Pushbuttons ϕ 30MM

► SPRING RETURN - ILLUMINATED

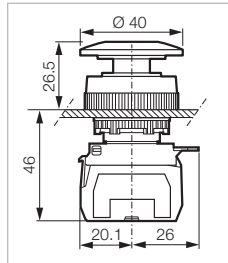
 Technical Info (p.154)

ϕ 40 MUSHROOM

Chrome Bezel
Part Number



T11AM10-3EARL11



LED blocks

12/24 Vac/dc

● Red	NO+NC	T11AM10-3EARL11
● Green	NO+NC	T11AM20-3EAGL11
● Yellow	NO+NC	T11AM40-3EAYL11
○ White	NO+NC	T11AM50-3EAWL11
● Blue	NO+NC	T11AM60-3EABL11

130 Vac

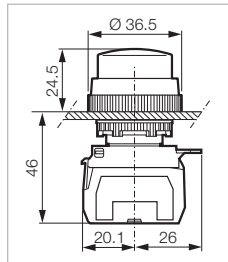
● Red	NO+NC	T11AM10-3EARM11
● Green	NO+NC	T11AM20-3EAGM11
● Yellow	NO+NC	T11AM40-3EAYM11
○ White	NO+NC	T11AM50-3EAWM11
● Blue	NO+NC	T11AM60-3EABM11

► MAINTAINED - ILLUMINATED

PROJECTING



T11CK20-3EAGL11



LED blocks

12/24 Vac/dc

● Red	NO+NC	T11CK10-3EARL11
● Green	NO+NC	T11CK20-3EAGL11
● Yellow	NO+NC	T11CK40-3EAYL11
○ White	NO+NC	T11CK50-3EAWL11
● Blue	NO+NC	T11CK60-3EABL11

130 Vac

● Red	NO+NC	T11CK10-3EARM11
● Green	NO+NC	T11CK20-3EAGM11
● Yellow	NO+NC	T11CK40-3EAYM11
○ White	NO+NC	T11CK50-3EAWM11
● Blue	NO+NC	T11CK60-3EABM11

230 Vac

● Red	NO+NC	T11CK10-3EARH11
● Green	NO+NC	T11CK20-3EAGH11
● Yellow	NO+NC	T11CK40-3EAYH11
○ White	NO+NC	T11CK50-3EAWH11
● Blue	NO+NC	T11CK60-3EABH11

Complete units: Selector switches ϕ 30mm

► SELECTOR SWITCHES - ILLUMINATED

 Technical Info (p.154)

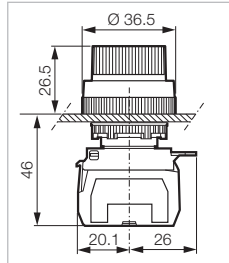
WITH HANDLE

2 positions

Chrome Bezel
Part Number



T1KG10-3EARL1



Maintained positions - 45°

12/24 Vac/Dc

- Red
- Green
- White



- NO + NC
- NO + NC
- NO + NC

- T11KG10-3EARL1
- T11KG20-3EAGL11
- T11KG50-3EAWL11

130 Vac

- Red
- Green
- White

- NO + NC
- NO + NC
- NO + NC

- T11KG10-3EARM11
- T11KG20-3EAGM11
- T11KG50-3EAWM11

Spring Return - 45°

12/24 Vac/Dc

- Red
- Green
- White



- NO + NC
- NO + NC
- NO + NC

- T11KK10-3EARL11
- T11KK20-3EAGL11
- T11KK50-3EAWL11

130 Vac

- Red
- Green
- White

- NO + NC
- NO + NC
- NO + NC

- T11KK10-3EARM11
- T11KK20-3EAGM11
- T11KK50-3EAWM11

Maintained positions - 90°

12/24 Vac/Dc

- Red
- Green
- White



- NO + NC
- NO + NC
- NO + NC

- T11KM10-3EARL11
- T11KM20-3EAGL11
- T11KM50-3EAWL11

130 Vac

- Red
- Green
- White

- NO + NC
- NO + NC
- NO + NC

- T11KM10-3EARM11
- T11KM20-3EAGM11
- T11KM50-3EAWM11

Complete units: Selector switches \varnothing 30MM

▶ SELECTOR SWITCHES - ILLUMINATED

 Technical Info (p. 154)

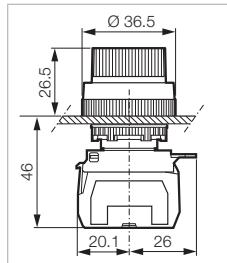
WITH HANDLE

3 positions

Chrome Bezel
Part Number



T11ME20-3EAGL20



Maintained positions - 45°

12/24 Vac/dc

- Red
- Green
- White



2 NO
2 NO
2 NO

T11ME10-3EARL20
T11ME20-3EAGL20
T11ME50-3EAWL20

130 Vac/dc

- Red
- Green
- White

2 NO
2 NO
2 NO

T11ME10-3EARM20
T11ME20-3EAGM20
T11ME50-3EAWM20

Maintained / Spring Return - 45°

12/24 Vac/dc

- Red
- Green
- White



NO + NC
NO + NC
NO + NC

T11MG10-3EARL11
T11MG20-3EAGL11
T11MG50-3EAWL11

130 Vac

- Red
- Green
- White

NO + NC
NO + NC
NO + NC

T11MG10-3EARM11
T11MG20-3EAGM11
T11MG50-3EAWM11

Spring Return - 45°

12/24 Vac/dc

- Red
- Green
- White



2 NO
2 NO
2 NO

T11MH10-3EARL20
T11MH20-3EAGL20
T11MH50-3EAWL20

130 Vac

- Red
- Green
- White


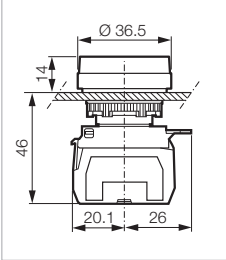

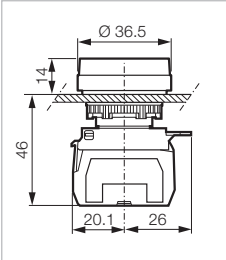
2 NO
2 NO
2 NO

T11MH10-3EARM20
T11MH20-3EAGM20
T11MH50-3EAWM20

Complete units: Pilot lights \varnothing 30mm

► PILOT LIGHTS

 Technical Info (p. 154)

HEAD, CLIP AND MODULE		Ribbed Lens Part Number	Smooth Lens Part Number
 <p>T10SA10-3EARL</p>		<p>WITH THREE POSITION CLIP 12/24 VAC/DC</p> <ul style="list-style-type: none"> ● Red ● Green ○ Clear ● Yellow ○ White ● Blue 	
		<p>130 Vac</p> <ul style="list-style-type: none"> ● Red ● Green ○ Clear ● Yellow ○ White ● Blue 	<p>T10SA10-3EARM T10SA20-3EAGM T10SA30-3EAWM T10SA40-3EAYM T10SA50-3EAWM T10SA60-3EABM</p>
 <p>T10SB20-3EAGM</p>		<p>230 Vac</p> <ul style="list-style-type: none"> ● Red ● Green ○ Clear ● Yellow ○ White ● Blue 	
		<p>T10SA10-3EARH T10SA20-3EAGH T10SA30-3EAWH T10SA40-3EAYH T10SA50-3EAWH T10SA60-3EABH</p>	<p>T10SB10-3EARH T10SB20-3EAGH T10SB30-3EAWH T10SB40-3EAYH T10SB50-3EAWH T10SB60-3EABH</p>

Operator Heads: \varnothing 30mm

► SPRING RETURN - NON-ILLUMINATED

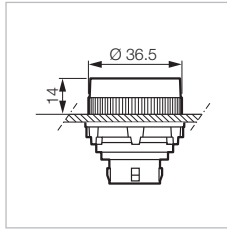
 Technical Info (p. 154)

FLUSH

Chrome Bezel
Part Number



T11AA01



- Red
- Green
- Black
- Yellow
- White
- Blue

- T11AA01
- T11AA02
- T11AA03
- T11AA04
- T11AA05
- T11AA06

WITH INTERNATIONAL SYMBOL

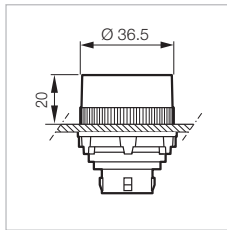
- Red
- Green
- Black

- T11AA81
- T11AA82
- T11AA83

FLUSH WITH DEEP COLLAR



T15AA02



- Red
- Green
- Black
- Yellow
- White
- Blue

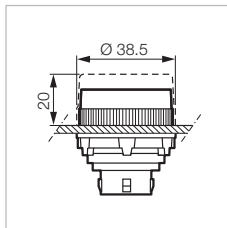
- T15AA01
- T15AA02
- T15AA03
- T15AA04
- T15AA05
- T15AA06

FLUSH WITH SHROUD

Reinforced degree of protection: IP 67



T11AG03



TRANSPARENT SHROUD

- Red
- Green
- Black
- Yellow
- White
- Blue

Components
Operator + Shroud

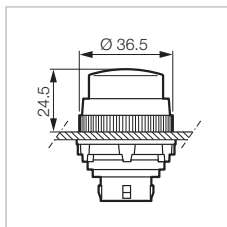
- T11AA01 + UA0228
- T11AA02 + UA0228
- T11AA03 + UA0228
- T11AA04 + UA0228
- T11AA05 + UA0228
- T11AA06 + UA0228

- T11AG01
- T11AG02
- T11AG03
- T11AG04
- T11AG05
- T11AG06

PROJECTING



T11AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

- T11AB01
- T11AB02
- T11AB03
- T11AB04
- T11AB05
- T11AB06

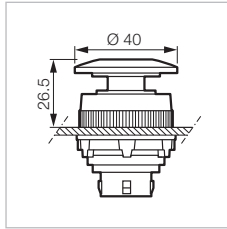
Operator Heads: \varnothing 30mm

► SPRING RETURN - NON-ILLUMINATED

 Technical Info (p. 154)

\varnothing 40 MUSHROOM

Chrome Bezel
Part Number



- Red
- Green
- Black
- Yellow

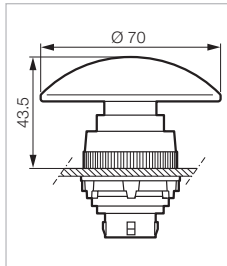
T11AD01
T11AD02
T11AD03
T11AD04

- WITH TEXT**
- Red (STOP STOP STOP)

T11AD01S

T11AD01

\varnothing 70 MUSHROOM



- Red - plastic
- Black - plastic

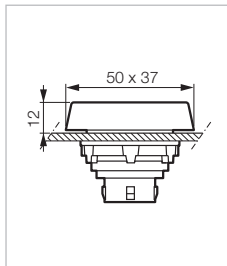
T11AE01
T11AE03

T11AE01

FLUSH-FLUSH

Twin touch

Black Bezel
Part Number



WITH INTERNATIONAL SYMBOLS

- Green
- Red

T52QA02

WITH TEXT

- Green (START)
- Red (STOP)

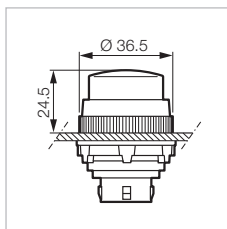
T52QA20

T52QA02

► MAINTAINED - NON-ILLUMINATED

PROJECTING

Chrome Bezel
Part Number



- Red
- Green
- Black
- Yellow
- White
- Blue

T11CB01
T11CB02
T11CB03
T11CB04
T11CB05
T11CB06

T11CB02

Operator Heads: \varnothing 30mm

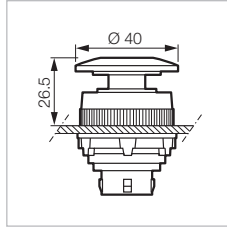
► MAINTAINED - NON-ILLUMINATED

 Technical Info (p. 154)

\varnothing 40 MUSHROOM Chrome Bezel
Part Number



T11DD01



Push-pull to reset

- Red
- Green
- Black
- Yellow

- T11DD01
- T11DD02
- T11DD03
- T11DD04

WITH TEXT

- Red (STOP STOP STOP)

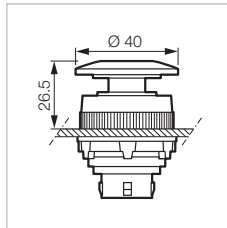
T11DD01S

\varnothing 40 MUSHROOM

Push-turn to reset



T11ED01



- Red
- Green
- Black
- Yellow

- T11ED01
- T11ED02
- T11ED03
- T11ED04

WITH TEXT

- Red (STOP STOP STOP)

T11ED01S

MANUAL LATCHING (Push in - Turn to Latch)

- Red
- Green
- Black
- Yellow

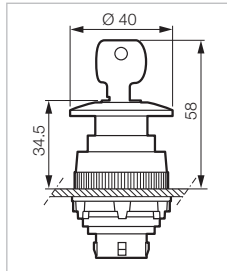
- T11FD01
- T11FD02
- T11FD03
- T11FD04

\varnothing 40 MUSHROOM

Key to reset



T11GM01



Supplied with 2 keys profile n°455

- Red

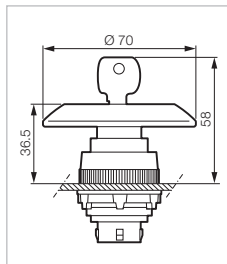
T11GM01

\varnothing 70 MUSHROOM

Key to reset



T11GP01



Supplied with 2 keys profile n°455

- Red

T11GP01

Operator Heads: \varnothing 30mm

▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p. 154)

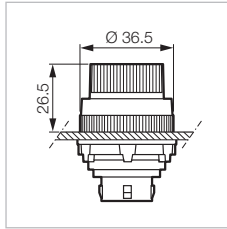
WITH HANDLE

2 positions

Chrome Bezel
Part Number



T11KA03



MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11KA01
T11KA03
T11KA08

SPRING RETURN - 45°

- Red
- Black
- Grey



T11KB01
T11KB03
T11KB08

MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11KC01
T11KC03
T11KC08

SPRING RETURN - 45°

- Red
- Black
- Grey



T11KD01
T11KD03
T11KD08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



T11KE01
T11KE03
T11KE08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



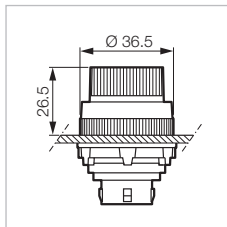
T11KF01
T11KF03
T11KF08

WITH HANDLE

3 positions



T11MA01



MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11MA01
T11MA03
T11MA08

SPRING RETURN FROM RIGHT TO 0 - 45°

- Red
- Black
- Grey



T11MC01
T11MC03
T11MC08

SPRING RETURN TO 0 - 45°

- Red
- Black
- Grey



T11MD01
T11MD03
T11MD08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



T11MK01
T11MK03
T11MK08

Operator Heads: \varnothing 30mm

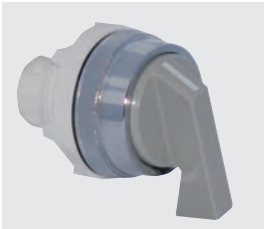
▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p.154)

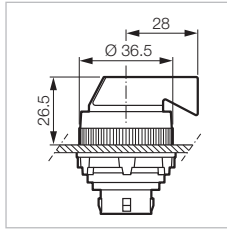
WITH HANDLE

2 positions

Chrome Bezel
Part Number



T11KP08



MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11KP01
T11KP03
T11KP08

SPRING RETURN - 45°

- Red
- Black
- Grey



T11KQ01
T11KQ03
T11KQ08

MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11KR01
T11KR03
T11KR08

SPRING RETURN - 45°

- Red
- Black
- Grey



T11KS01
T11KS03
T11KS08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



T11KT01
T11KT03
T11KT08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



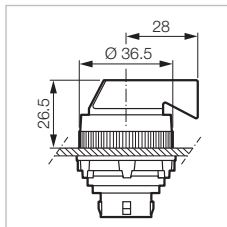
T11KU01
T11KU03
T11KU08

WITH HANDLE

3 positions



T11MR01



MAINTAINED POSITIONS - 45°

- Red
- Black
- Grey



T11MR01
T11MR03
T11MR08

SPRING RETURN FROM RIGHT TO 0 - 45°

- Red
- Black
- Grey



T11MT01
T11MT03
T11MT08

SPRING RETURN TO 0 - 45°

- Red
- Black
- Grey



T11MU01
T11MU03
T11MU08

MAINTAINED POSITIONS - 90°

- Red
- Black
- Grey



T11MW01
T11MW03
T11MW08

Operator Heads: \varnothing 30mm

▶ SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p. 154)

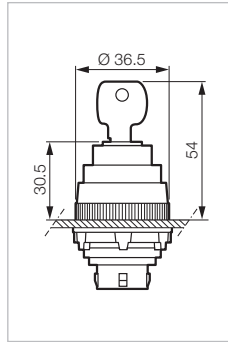
WITH KEY

2 positions

Chrome Bezel
Part Number



T11LA00



KEY FREE IN POSITION:

Supplied with 2 keys profile n° 455

MAINTAINED POSITIONS - 45°

● Black  0 1 0 T11LA00

SPRING RETURN - 45°

● Black  0 1 0 T11LB00

MAINTAINED POSITIONS - 45°

● Black  0 1 0 T11LC00

SPRING RETURN - 45°

● Black  0 1 0 T11LD00

MAINTAINED POSITIONS - 90°

● Black  0 1 0 - 1 T11LG00

MAINTAINED POSITIONS - 90°

● Black  0 1 0 T11LF00

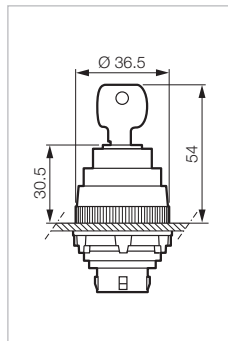
FOR KEY PROFILE N° 1424A ADD SUFFIX "A" TO END OF PART NUMBERS (IE. T11LA00A)

WITH KEY

3 positions



T11NA00



KEY FREE IN POSITION:

Supplied with 2 keys profile n° 455

STAY-PUT POSITIONS - 45°

● Black  1 0 2 0 T11NA00

SPRING RETURN FROM RIGHT TO 0 - 45°

● Black  1 0 2 0 T11NC00

Spring return to 0 - 45°

● Black  1 0 2 0 T11ND00

STAY-PUT POSITIONS - 90°

● Black  1 0 2 1 - 0 - 2 T11NK00

FOR KEY PROFILE N° 1424A ADD SUFFIX "A" TO END OF PART NUMBERS (IE. T11NA00A)

Complete units: Part Numbering System

► SELECTOR SWITCHES - NON-ILLUMINATED

 Technical Info (p. 154)

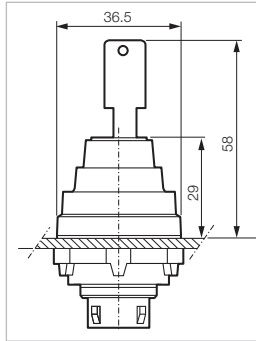
WITH KEY

2 positions

Chrome Bezel
Part Number



T11GM00



Supplied with 2 keys profile n° 455

LOCKABLE POSITION	KEY FREE IN:	
MAINTAINED		
In bottom position	Top and bottom position	T11GM00
MANUAL LOCKING		
In top position	Top and bottom position	T11GF00
In top position	Bottom position	T11GJ00
In bottom position	Top and bottom position	T11GG00
In bottom position	Bottom position	T11GK00
In top and bottom position	Top and bottom position	T11GH00
In top and bottom position	Bottom position	T11GL00

Operator Heads: \varnothing 30mm

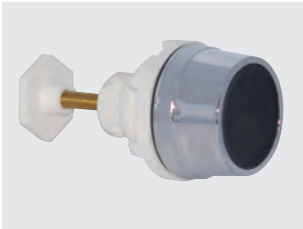
► MECHANICAL ACTUATOR MOMENTARY - NON-ILLUMINATED

 Technical Info (p.154)

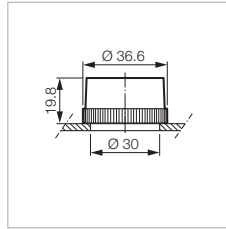
ADJUSTABLE MECHANICAL ACTUATOR - FLUSH

Chrome Bezel
Part Number

Black Bezel
Part Number



T11HA03



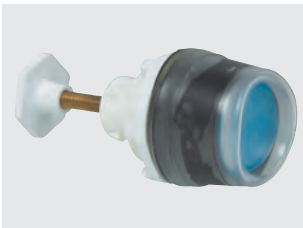
To be used without electrical block
Stroke 12 mm
Adjustable: 27 mm min to 47 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

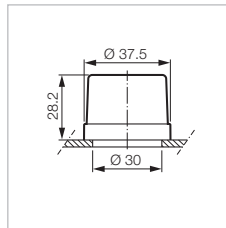
T11HA01
T11HA02
T11HA03
T11HA04
T11HA05
T11HA06

T12HA01
T12HA02
T12HA03
T12HA04
T12HA05
T12HA06

ADJUSTABLE MECHANICAL ACTUATOR - FLUSH WITH SHROUD



T12HG06



To be used without electrical block
Stroke 12 mm
Adjustable: 27 mm min to 47 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

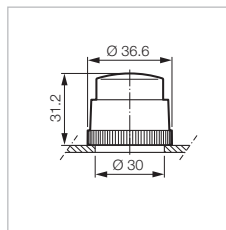
T11HG01
T11HG02
T11HG03
T11HG04
T11HG05
T11HG06

T12HG01
T12HG02
T12HG03
T12HG04
T12HG05
T12HG06

ADJUSTABLE MECHANICAL ACTUATOR - PROJECTING



T12HB05



To be used without electrical block
Stroke 12 mm
Adjustable: 27 mm min to 47 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

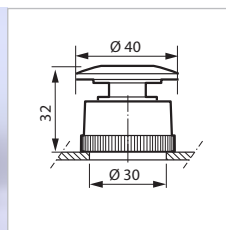
T11HB01
T11HB02
T11HB03
T11HB04
T11HB05
T11HB06

T12HB01
T12HB02
T12HB03
T12HB04
T12HB05
T12HB06

ADJUSTABLE MECHANICAL ACTUATOR - PROJECTING



907150RED



To be used without electrical block
Stroke 8 mm
Adjustable: 27 mm min to 47 mm max / front side of panel

- Red

907150RED

Operator Heads: ϕ 30mm

► SPRING RETURN - ILLUMINATED

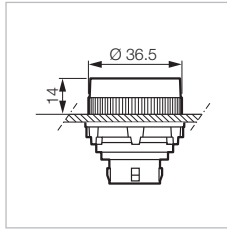
 Technical Info (p. 154)

Chrome Bezel
Part Number

FLUSH



T11AH20



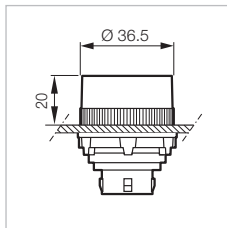
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T11AH10
- T11AH20
- T11AH30
- T11AH40
- T11AH50
- T11AH60

FLUSH WITH DEEP COLLAR



T15AH40



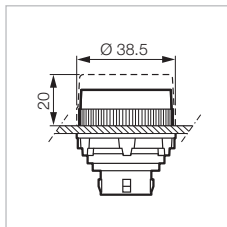
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T15AH10
- T15AH20
- T15AH30
- T15AH40
- T15AH50
- T15AH60

FLUSH WITH SHROUD



T11AP40



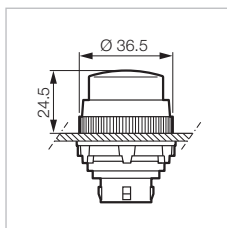
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T11AP10
- T11AP20
- T11AP30
- T11AP40
- T11AP50
- T11AP60

PROJECTING



T11AK10



- Red
- Green
- Clear
- Yellow
- White

- T11AK10
- T11AK20
- T11AK30
- T11AK40
- T11AK50

Operator Heads: \varnothing 30mm

▶ SPRING RETURN - ILLUMINATED



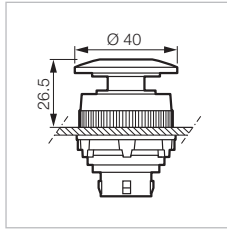
Technical Info (p. 154)

\varnothing 40 MUSHROOM

Chrome Bezel
Part Number



T11AM10



- Red
- Green
- Yellow
- White

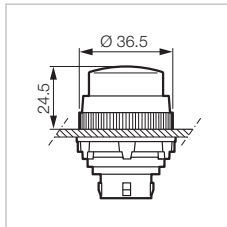
- T11AM10
- T11AM20
- T11AM40
- T11AM50

▶ MAINTAINED - ILLUMINATED

PROJECTING



T11CK20



- Red
- Green
- Clear
- Yellow
- White

- T11CK10
- T11CK20
- T11CK30
- T11CK40
- T11CK50

Operator Heads: \varnothing 30mm

▶ SELECTOR SWITCHES - ILLUMINATED

 Technical Info (p. 154)

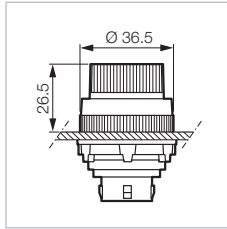
WITH HANDLE

2 positions

Chrome Bezel
Part Number



T11KG10



MAINTAINED POSITIONS - 45°

- Red
- Green
- White



T11KG10
T11KG20
T11KG50

MAINTAINED POSITIONS - 45°

- Red
- Green
- White



T11KJ10
T11KJ20
T11KJ50

SPRING RETURN - 45°

- Red
- Green
- White



T11KK10
T11KK20
T11KK50

MAINTAINED POSITIONS - 90°

- Red
- Green
- White



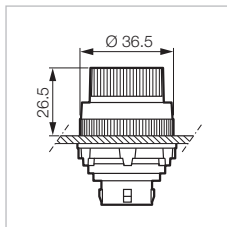
T11KM10
T11KM20
T11KM50

WITH HANDLE

3 positions

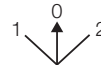


T11ME20



MAINTAINED POSITIONS - 45°

- Red
- Green
- White



T11ME10
T11ME20
T11ME50

SPRING RETURN FROM RIGHT TO 0 - 45°

- Red
- Green
- White



T11MG10
T11MG20
T11MG50

SPRING RETURN TO 0 - 45°

- Red
- Green
- White



T11MH10
T11MH20
T11MH50

MAINTAINED POSITIONS - 90°

- Red
- Green
- White



T11MJ10
T11MJ20
T11MJ50

Operator Heads: ϕ 30mm

▶ PILOT LIGHTS - HEAD ONLY

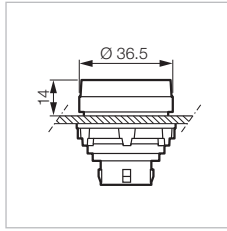
 Technical Info (p. 154)

WITH RIBBED LENS

Part Number



T10SA10



For use with a clip and LED block (p. 58 to 70)

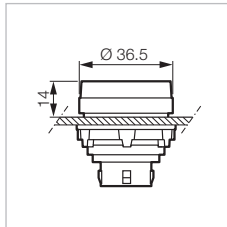
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T10SA10
- T10SA20
- T10SA30
- T10SA40
- T10SA50
- T10SA60

WITH SMOOTH LENS



T10SB50



For use with a clip and LED block (p. 58 to 70)

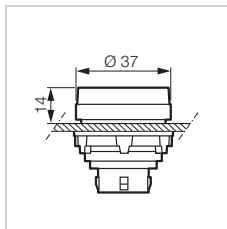
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T10SB10
- T10SB20
- T10SB30
- T10SB40
- T10SB50
- T10SB60

WITH RIBBED LENS AND METAL COLLAR



T15SA40



For use with a clip and LED block (p. 58 to 70)

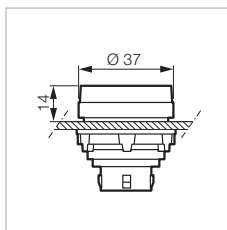
- Red
- Green
- Clear
- Yellow
- White
- Blue

- T15SA10
- T15SA20
- T15SA30
- T15SA40
- T15SA50
- T15SA60

WITH SMOOTH LENS AND METAL COLLAR



T15SB20



For use with a clip and LED block (p. 58 to 70)

- Red
- Green
- Clear
- Yellow
- White
- Blue

- T15SB10
- T15SB20
- T15SB30
- T15SB40
- T15SB50
- T15SB60

Accessories ø 30

▶ LEGEND PLATES - EMERGENCY STOP

PLASTIC LEGEND PLATES

Part Number



UWE80300

Plastic - Yellow with black engraving

60mm diameter

Blank
EMERGENCY STOP

UWE60
UWE60300

70mm diameter

Blank
EMERGENCY STOP

UWE70
UWE70300

80mm diameter

Blank
EMERGENCY STOP

UWE80
UWE80300

NOTE:

Custom diameters and engravings available please contact us for details.

METAL LEGEND PLATES



UE00300


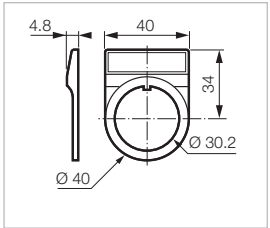

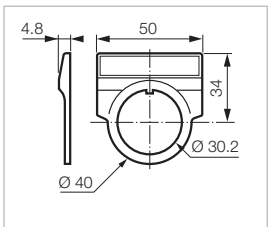
Metal - Yellow with black lettering

80mm diameter
EMERGENCY STOP

UE00300


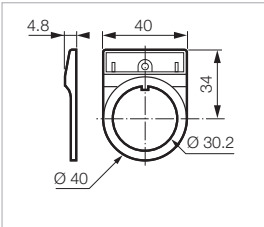

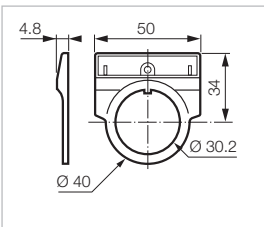
Accessories ø 30

► COMPLETE LEGEND PLATES (FRAME + INSERT)


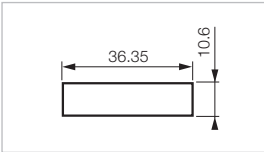
		Standard model - 40 x 54 mm	Part Number
 <p>UP39</p>		<p>Round shape Black frame and legend plate unassembled 2 lines maximum, 18 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ● Alu <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ● Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER ...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>UP31 UP33 UP39</p> <p>UP31□□□□ UP33□□□□ UP39□□□□</p> <p>UP37</p>
		<p style="text-align: center;">Large model - 50 x 54 mm</p>	
 <p>UG39</p>		<p>Round shape Black frame and legend plate unassembled 2 lines maximum, 24 characters per line</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ● Alu <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ● Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER ...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>UG31 UG33 UG39</p> <p>UG31□□□□ UG33□□□□ UG39□□□□</p> <p>UG37</p>

Accessories ø 30

▶ LEGEND PLATES - FRAMES ONLY


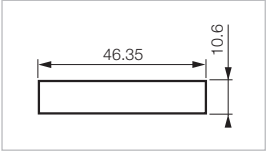
		Standard model	Part Number
		● Black	UP3
		Large model	
		● Black	UG3

▶ LEGEND PLATES - INSERTS ONLY

TO BE ENGRAVED	Standard model		
		2 lines maximum 18 characters per line For use with standard model legend plate frames	
IB1	WITHOUT ENGRAVING	● Red ● Black ● Alu	IB1 IB3 IB9
	WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.	● Red - white engraving ● Black - white engraving ● Alu - black engraving	IB1□□□ IB3□□□ IB9□□□
	PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER ...)	○ Transparent	IB7


Accessories ø 30

▶ LEGEND PLATES - INSERTS ONLY


TO BE ENGRAVED	Large model	Part Number
 <p>IC3</p>	 <p>2 lines maximum 18 characters per line For use with standard model legend plate frames</p> <p>WITHOUT ENGRAVING</p> <ul style="list-style-type: none"> ● Red ● Black ● Alu <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ● Red - white engraving ● Black - white engraving ● Alu - black engraving <p>PROTECTIVE MASK FOR LEGEND PLATE (PAPER OR OTHER ...)</p> <ul style="list-style-type: none"> ○ Transparent 	<p>IC1 IC3 IC9</p> <p>IC1□□□ IC3□□□ IC9□□□</p> <p>IC7</p>

▶ BUTTON PLATES

FOR ILLUMINATED FLUSH BUTTONS

 <p>UE02</p>	<p>2 lines maximum, 10 characters per line To be inserted under the button</p> <p>Without engraving</p> <ul style="list-style-type: none"> ○ Transparent <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ○ Transparent (black engraving) 	<p>UE02</p> <p>UE02□□□</p>
---	---	----------------------------

FOR PILOT LIGHTS

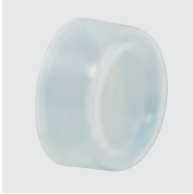
 <p>UE10</p>	<p>2 lines maximum, 12 characters per line To be inserted under Smooth lens Pilot Light lens</p> <p>Without engraving</p> <ul style="list-style-type: none"> ○ Transparent <p>WITH TEXT OR SYMBOL (see p. 82 to 85) Code to be added at the end of the part number. For custom text or symbol please contact us.</p> <ul style="list-style-type: none"> ○ Transparent (black engraving) 	<p>UE10</p> <p>UE10□□□</p>
---	---	----------------------------

Accessories ø 30

► MISCELLANEOUS

SHROUD FOR FLUSH BUTTONS

Part Number

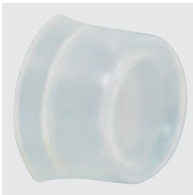


○ Transparent

UA0228

UA0228

SHROUD FOR ADJUSTABLE MECHANICAL BUTTONS



○ Transparent

UA0219

UA0219

STANDARD BEZEL



Height 13 mm

Brilliant chrome plastic
Black plastic
Grey plastic
Matt chrome plastic bezel
Matt chrome brass

UA0011
UA0012
UA0013
UA0016
UA0014

UA0011

DEEP BEZEL

For flush push-buttons only



Height 20 mm

Brilliant chrome brass

UA0202

UA0202

BEZEL FOR MECHANICAL ACTUATOR



Height 20 mm

Brilliant chrome plastic
Black plastic
Grey plastic
Brilliant chrome brass

UA0111
UA0112
UA0113
UA0114

UA0112

Accessories ϕ 30

► MISCELLANEOUS

FIXING TOOL

Part Number



Fixing tool ϕ 22/ ϕ 30

WA0210

WA0210

BLANKING PLUG



● Grey

UA0215

UA0215

ANTI-ROTATION RING



Anti-rotation ring

UA0209

UA0209

LOCKING NUT

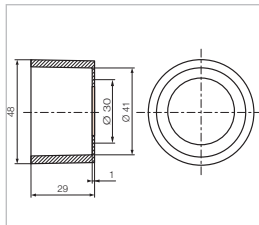
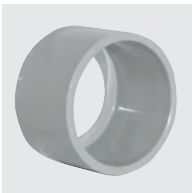


Plastic locking nut for 30mm operators

0908005V

0908005V

GUARD



For spring return button and spring return mushroom head
(max. ϕ 40)

UA0225

UA0225

Control Stations ø 30

▶ CONTROL STATIONS - NON-ILLUMINATED


 Technical Info (p.154)

SPRING RETURN - FLUSH

Part Number





TBPA301-101

				Legend Text	
● Green	NO			START	TBPA301-101
● Red	NC			STOP	TBPA301-104

MUSHROOM HEAD ø 40 - SPRING RETURN




TBPA301-201

				Legend Text	
● Green	NO			START	TBPA301-204
● Red	NC			STOP	TBPA301-201

SELECTOR SWITCH - WITH HANDLE




TBPA301-401

				Marking	
		2 Maintained positions - 90°			
● Black	NO			OFF ON	TBPA301-401

SELECTOR SWITCH - WITH KEY



TBPA301-402

				Marking	
		Supplied with 2 keys profile n° 455			
		2 Maintained positions - 90° Key free in position 0-1			
● Black	NO			OFF ON	TBPA301-402

Control Stations ø 30

▶ CONTROL STATIONS - NON-ILLUMINATED

 Technical Info (p.154)

MUSHROOM HEAD ø 40 - MAINTAINED

Part Number



TBPA301-301

Push-turn to reset

● Red NC



EMERGENCY STOP

TBPA301-301

Push-Pull to reset

● Red NC



EMERGENCY STOP

TBPA301-311

Push-Key to reset

● Red NC



EMERGENCY STOP

TBPA301-321

Supplied with 2 keys profile n° 455

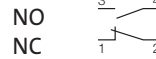
SPRING RETURN - FLUSH



TBPA302-001

● Green NO

● Red NC



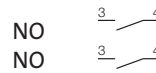
Marking

START
STOP

TBPA302-001

● Black NO

● Black NO



UP
DOWN

TBPA302-002

SPRING RETURN - FLUSH

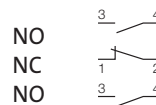


TBPA303-001

● Green NO

● Red NC

● Green NO



Marking

UP
STOP
DOWN

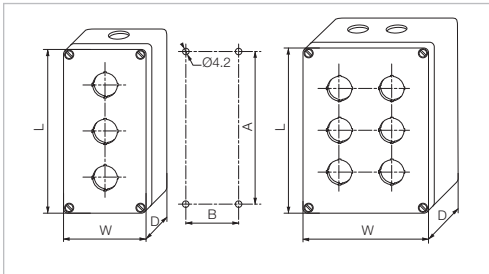
TBPA303-001

Control Stations \varnothing 30

► PRE-DRILLED POLYCARBONATE ENCLOSURES



BPA302



Number of Holes	Cable Gland	Dimensions					Part Number
		L	W	D	A	B	
1	1 x PG13-GY	82	80	55	70	50	BPA301
2	1 x PG13-GY	120	80	55	108	50	BPA302
3	1 x PG13-GY	160	80	55	148	50	BPA303
1	1 x PG16-GY	82	80	85	70	50	BPP301
2	1 x PG16-GY	120	80	85	108	50	BPP302
3	1 x PG16-GY	160	80	85	148	50	BPP303
4	2 x PG16-GY	122	120	85	110	90	BPP304
6	2 x PG16-GY	200	120	75	188	90	BPA306
8	2 x PG16-GY	200	120	75	188	90	BPA308
10	2 x PG16-GY	240	120	100	288	90	BPP310

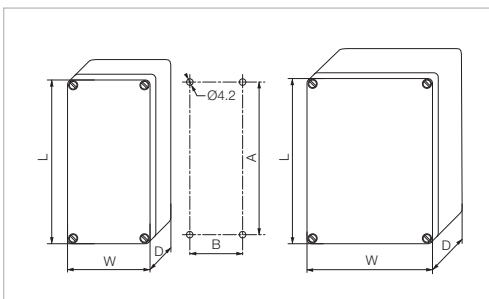
► EMPTY POLYCARBONATE ENCLOSURES



BNT208



BNT251



L	W	D	Dimensions (mm)		Part Number
			A	B	
65	50	35	53	38	BNT206
82	80	55	70	50	BNT210
82	80	85	70	50	BNT225
120	80	55	108	50	BNT215
120	80	85	108	50	BNT226
122	120	55	110	90	BNT217
122	120	85	110	90	BNT227
160	80	55	148	50	BNT220
160	80	85	148	50	BNT231
200	120	75	188	90	BNT237
200	150	75	188	119	BNT223
240	120	100	228	90	BNT242
240	160	120	228	130	BNT243
250	160	90	238	130	BNT240

CABLE GLANDS

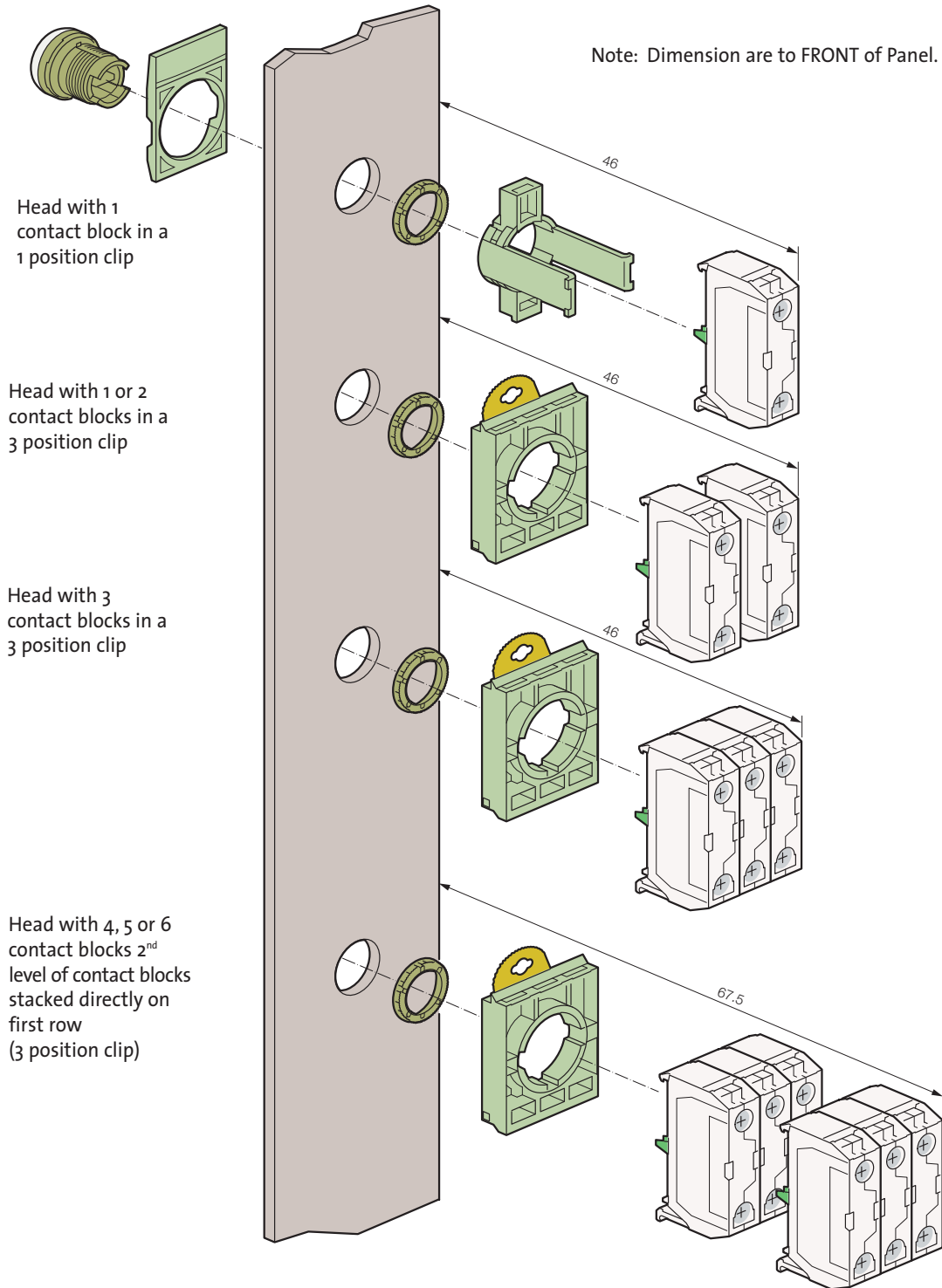


PG16-GY

	Size	Cable Thickness	Part Number
● Grey	PG11	3mm - 7mm	PG11-GY
● Grey	PG13.5	6mm - 12mm	PG13-GY
● Grey	PG16	10mm - 14mm	PG16-GY
● Grey	PG21	13mm - 18mm	PG21-GY
● Grey	PG29	18mm - 25mm	PG29-GY

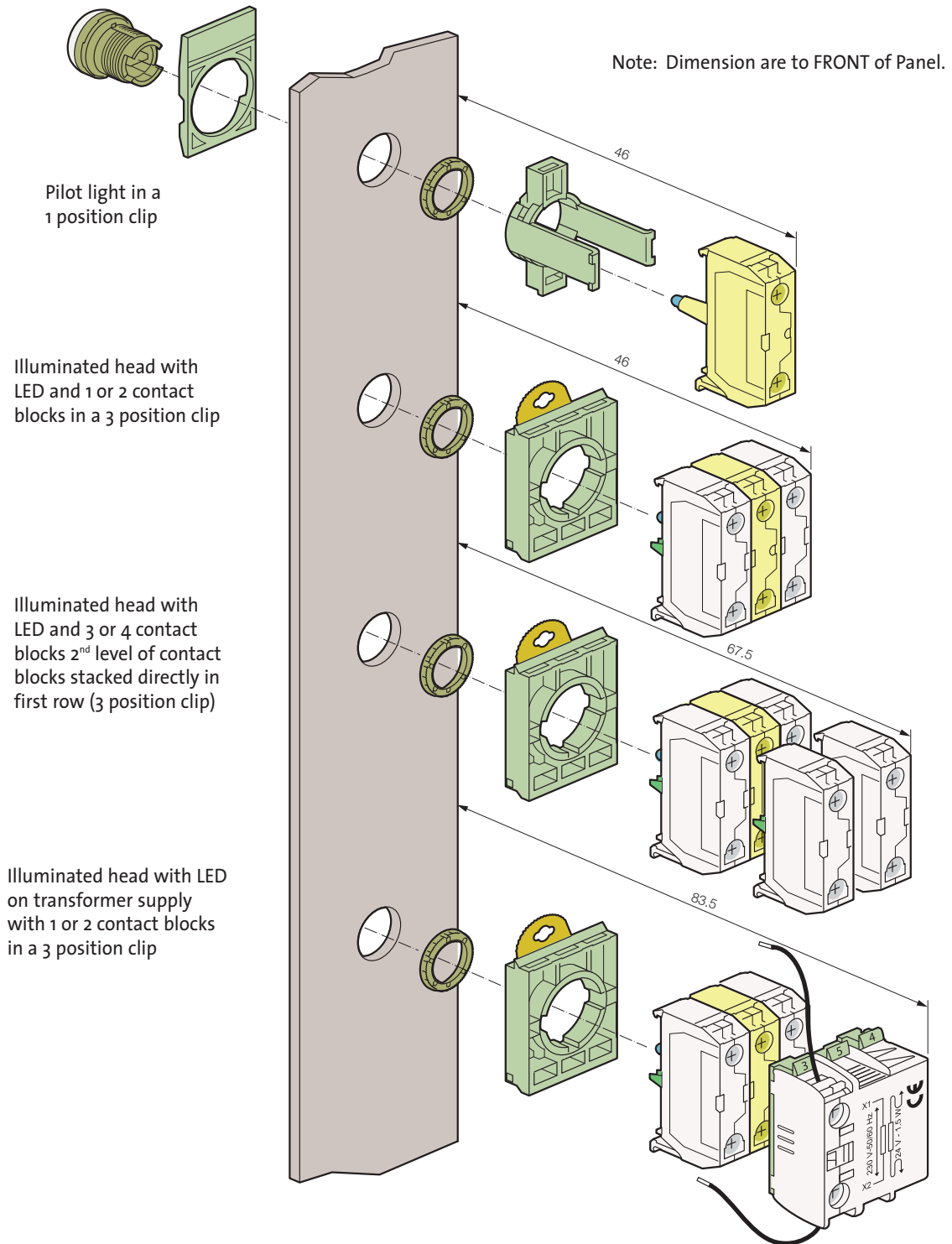
Technical Specifications


NON-ILLUMINATED



Technical Specifications

ILLUMINATED



 Illuminated blocks

Technical Specifications

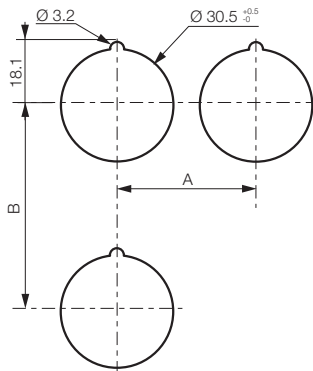
▶ GENERAL

Characteristics	Data	Standards
▶ Storage temperature for illuminated or non illuminated button	- 40°C to + 70°C	
▶ Operating temperature	Non illuminated buttons: - 25°C to + 70°C Illuminated buttons: - 25°C to + 60°C	
▶ Degree of protection	IP 65 for standard heads IP 67 for shrouded heads Type 4, 4X, 12, and 13	IEC 60947-1 NEMA standard
▶ Mechanical life	Spring return push button: 3 x 10 ⁶ operating cycles	IEC 60947-5-1

The contact blocks and LED modules used for the Ø 30mm heads are the same as for Ø 22mm heads (p. 57 to 75).
Their characteristics are described on <None>. 108 to 111.

▶ PANEL CUT-OUT Ø 30mm

DRILLING



For heads equipped with electrical blocks with screw terminals

Minimum interval (mm)

A	> 40	For mushroom head Ø40
	> 50	For selector switch with Long handle
	> 70	For mushroom head Ø70
B	> 50	For double touch
	> 50	For legend plates
	> 70	For mushroom head Ø70

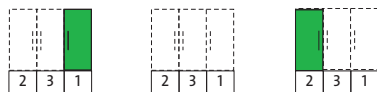
MECHANICAL OPERATION

For 3 position selector switches

Handle position
(view from front of panel)



Contacts block actuation
(clip position)



Non operated block



Operated block



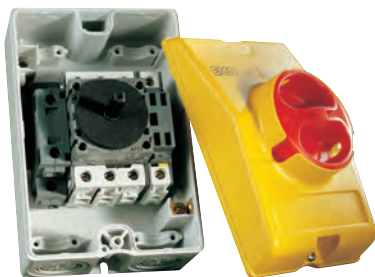
Disconnect Switches

A modular and flexible range



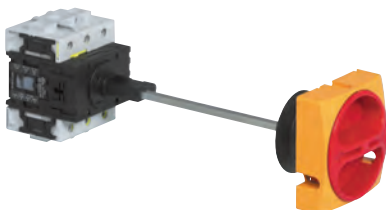
Contact gap
7 mm

**Reversible
terminal feature**



► IN ENCLOSURE

- Degree of protection: up to IP 66
- For 25A to 100A size switches
- Cable entries with pre-formed knockouts
- Tamper-proof cover with padlockable handle
- Recessed area for optional plate
- A wide choice of associated contact blocks and enclosures available



► WITH CLUTCH DRIVE

- Metal shafts can be cut to length required
- With or without door interlock system
- Short or long metal shafts available

25A / 32A

▶ DOOR/PANEL MOUNTING

 Technical Info (p. 196)

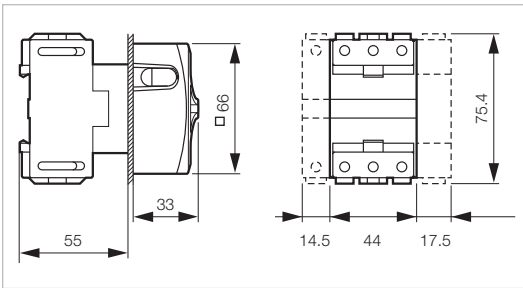
PADLOCKABLE PRESENTATION



0172001



0174101



Yellow/Red Handle
Part Number

Grey Handle
Part Number

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172001
- 0172011
- 0172021
- 0172031

- 0174001
- 0174011
- 0174021
- 0174031

32 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172101
- 0172111
- 0172121
- 0172131

- 0174101
- 0174111
- 0174121
- 0174131

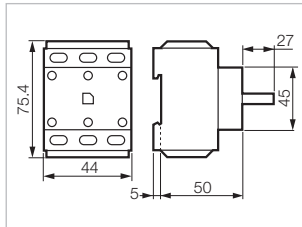
STANDARD VERSIONS IP40 RATED.
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172001-1

COMPONENTS AND ACCESSORIES

Part Number



0172000



3-pole switch body without handle

- 25 A
- 32 A

- 0172000
- 0172100

Additional pole

- 25 A
- 32 A

- 0172075
- 0172175

Neutral pole

- 25 A
- 32 A

- 0172065
- 0172165

Junction block

Ground or Neutral

0172185

Auxiliary contact - 10A

NC/NO

0172179

IP65 Seal Kit

0172267

Replacement Handle

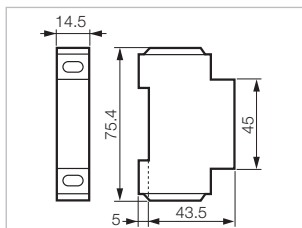
- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0172065

0172185



25A / 32A

▶ DOOR/PANEL MOUNTING

 Technical Info (p.196)

NON- PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



0172002



0174102

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172002
- 0172012
- 0172022
- 0172032

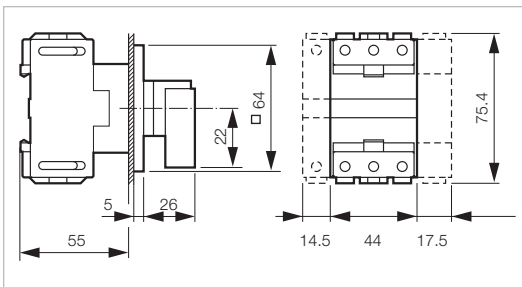
- 0174002
- 0174012
- 0174022
- 0174032

32 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172102
- 0172112
- 0172122
- 0172132

- 0174102
- 0174112
- 0174122
- 0174132



STANDARD VERSIONS IP40 RATED.

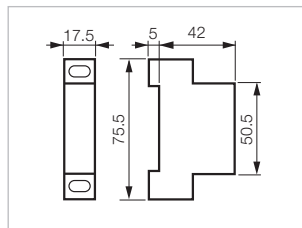
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172002-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

- 25 A
- 32 A

- 0172000
- 0172100

Additional pole

- 25 A
- 32 A

- 0172075
- 0172175

Neutral pole

- 25 A
- 32 A

- 0172065
- 0172165

Junction block

Ground or Neutral

0172185

Auxiliary contact - 10A

NC/NO

0172179

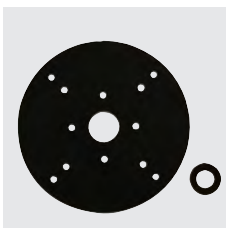
IP65 Seal Kit

0172267

Replacement Handle, Plate, and Frame

- 64 - Yellow/Red
- 64 - Grey

- 0172602
- 0174602



0172267

25A / 32A

▶ DOOR/PANEL MOUNTING

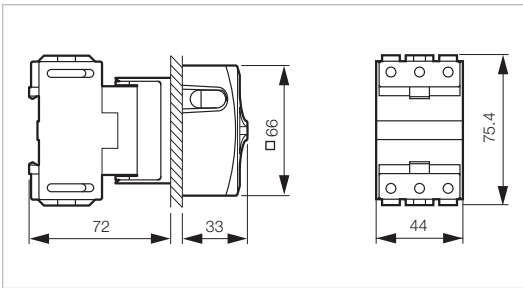
 Technical Info (p.196)

PADLOCKABLE PRESENTATION Ø 22 SINGLE-HOLE MOUNTING

Yellow/Red Handle
Part Number



0172003



25 A

3P	0172003
3P + NC/NO	0172013
4P neutral on left	0172023
4P + NC/NO	0172033

32 A

3P	0172103
3P+NC/NO	0172113
4P neutral on left	0172123
4P + NC/NO	0172133

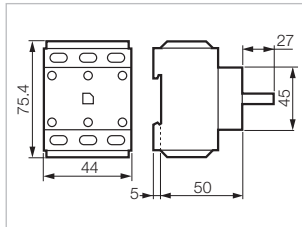
STANDARD VERSIONS IP65 RATED.

COMPONENTS AND ACCESSORIES

Part Number



0172000



3-pole switch body without handle

25 A	0172000
32 A	0172100

Additional pole

25 A	0172075
32 A	0172175

Neutral pole

25 A	0172065
32 A	0172165

Junction block Ground or Neutral

0172185

Auxiliary contact - 10A

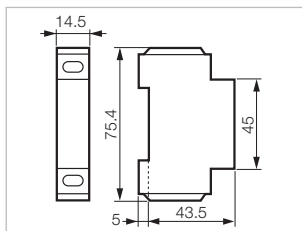
NC/NO	0172179
-------	---------

Replacement Handle

□ 66 - Ø 22 single-hole-mounting - Yellow/Red	0172603
---	---------



0172065 0172185



25A / 32A

▶ DOOR/PANEL MOUNTING



Technical Info (p.196)

NON-PADLOCKABLE PRESENTATION Ø 22 SINGLE-HOLE MOUNTING

Yellow/Red Handle
Part Number



0172004

25 A

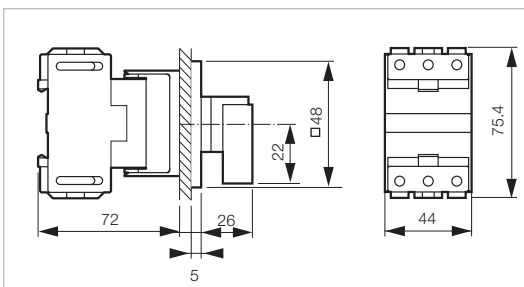
3P
3P+NC/NO
4P neutral on left

0172004
0172014
0172024

32 A

3P
3P+NC/NO
4P neutral on left

0172104
0172114
0172124



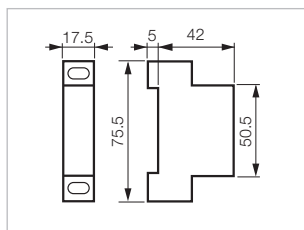
STANDARD VERSIONS IP65 RATED.

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

25 A
32 A

0172000
0172100

Additional pole

25 A
32 A

0172075
0172175

Neutral pole

25 A
32 A

0172065
0172165

Junction block

Ground or Neutral

0172185

Auxiliary contact - 10A

NC/NO

0172179

Replacement Handle, Plate, and Frame

□ 48 - Ø 22 single-hole-mounting - Yellow/Red

0172604

25A / 32A

► DIN-RAIL IN-PANEL MOUNTING

 Technical Info (p.196)

PADLOCKABLE PRESENTATION

Grey Handle
Part Number



0174005

25 A

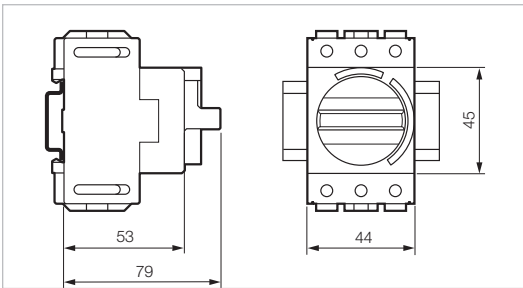
3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0174005
0174015
0174025
0174035

32 A

3P
3P+NC/NO
4P neutral on left
4P + NC/NO

0174105
0174115
0174125
0174135

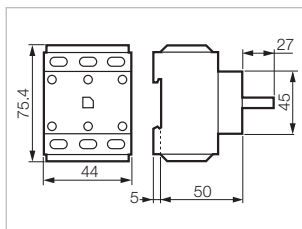


COMPONENTS AND ACCESSORIES

Part Number



0172000



3-pole switch body without handle

25 A
32 A

0172000
0172100

Additional pole

25 A
32 A

0172075
0172175

Neutral pole

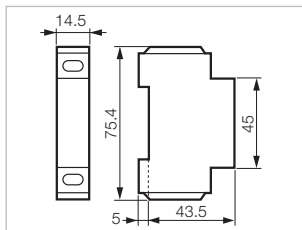
25 A
32 A

0172065
0172165



0172065

0172185



Junction block
Ground or Neutral

0172185

Auxiliary contact - 10A

NC/NO

0172179

25A / 32A

▶ DOOR INTERLOCK MOUNTING - NO METAL SHAFT EXTENSION



PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



0165009NS

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165009NS
- 0165019NS
- 0165029NS
- 0165039NS

- 0168009NS
- 0168019NS
- 0168029NS
- 0168039NS



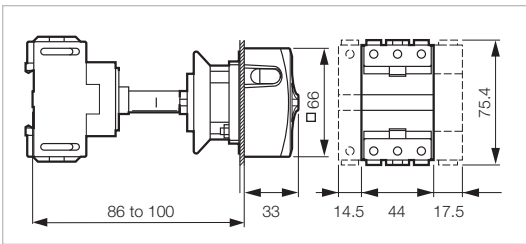
0168109NS

32 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165109NS
- 0165119NS
- 0165129NS
- 0165139NS

- 0168109NS
- 0168119NS
- 0168129NS
- 0168139NS



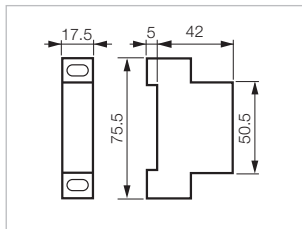
STANDARD VERSIONS IP40 RATED.
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165009NS-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

- 25 A
- 32 A

- 0172000
- 0172100

Additional pole

- 25 A
- 32 A

- 0172075
- 0172175

Neutral pole

- 25 A
- 32 A

- 0172065
- 0172165

Junction block

Ground or Neutral

- 0172185

Auxiliary contact - 10A

NC/NO

- 0172179

IP65 Seal Kit

- 0174259

Replacement Handle

- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0174259

25A / 32A

▶ DOOR INTERLOCK MOUNTING - SHORT METAL SHAFT EXTENSION

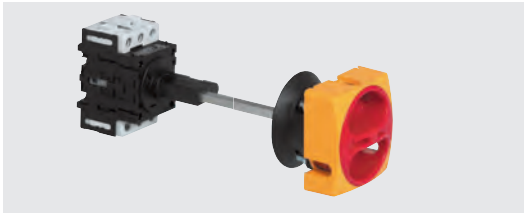


Technical Info (p.196)

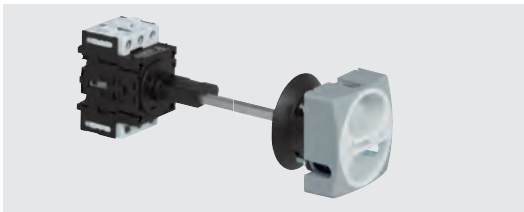
PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

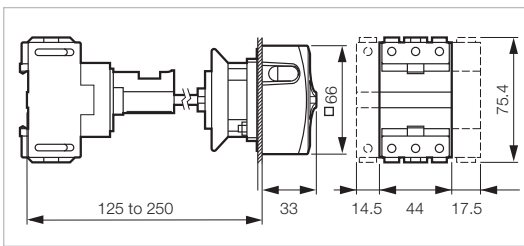
Grey Handle
Part Number



0165009SS



0168109SS



25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165009SS
- 0165019SS
- 0165029SS
- 0165039SS

- 0168009SS
- 0168019SS
- 0168029SS
- 0168039SS

32 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165109SS
- 0165119SS
- 0165129SS
- 0165139SS

- 0168109SS
- 0168119SS
- 0168129SS
- 0168139SS

STANDARD VERSIONS IP40 RATED.

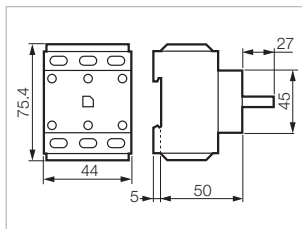
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165009SS-1

COMPONENTS AND ACCESSORIES

Part Number



0172000



3-pole switch body without handle

- 25 A
- 32 A

- 0172000
- 0172100

Additional pole

- 25 A
- 32 A

- 0172075
- 0172175

Neutral pole

- 25 A
- 32 A

- 0172065
- 0172165

Junction block
Ground or Neutral

- 0172185

Auxiliary contact - 10A

- NC/NO

- 0172179

IP65 Seal Kit

- 0174259

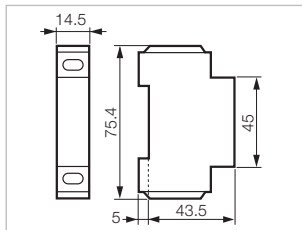
Replacement Handle

- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0172065 0172185



25A / 32A

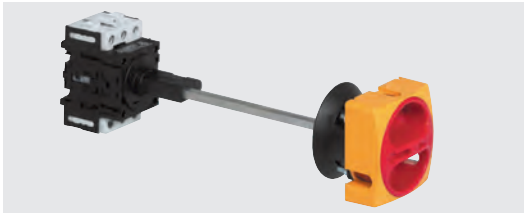
▶ DOOR INTERLOCK MOUNTING - LONG METAL SHAFT EXTENSION



PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



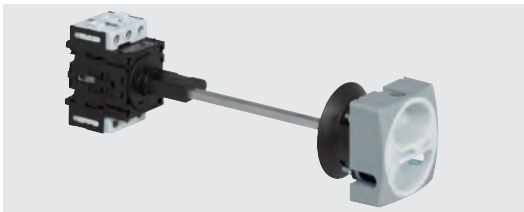
0165009LS

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165009LS
- 0165019LS
- 0165029LS
- 0165039LS

- 0168009LS
- 0168019LS
- 0168029LS
- 0168039LS



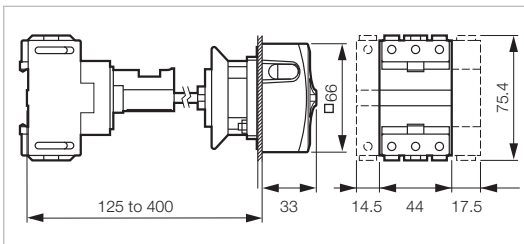
0168109LS

32 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165109LS
- 0165119LS
- 0165129LS
- 0165139LS

- 0168109LS
- 0168119LS
- 0168129LS
- 0168139LS



STANDARD VERSIONS IP40 RATED.

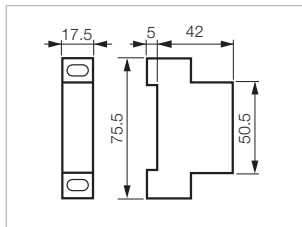
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165009LS-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

- 25 A
- 32 A

- 0172000
- 0172100

Additional pole

- 25 A
- 32 A

- 0172075
- 0172175

Neutral pole

- 25 A
- 32 A

- 0172065
- 0172165

Junction block

Ground or Neutral

- 0172185

Auxiliary contact - 10A

NC/NO

- 0172179

IP65 Seal Kit

- 0174259

Replacement Handle

- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0174259

25A / 32A

► ENCLOSURES

 Technical Info (p.196)

PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



0172061



0174161

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172061
- 0172071
- 0172081
- 0172091

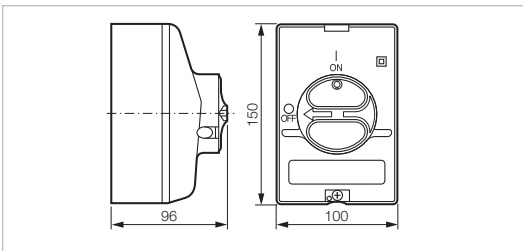
- 0174061
- 0174071
- 0174081
- 0174091

32 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172161
- 0172171
- 0172181
- 0172191

- 0174161
- 0174171
- 0174181
- 0174191



Cable entries: 6 x PG16 and 4 x M25

STANDARD VERSIONS IP66 RATED.

PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



0172009



0174109

25 A

- 6P
- 6P + NC/NO

- 0172009
- 0172029

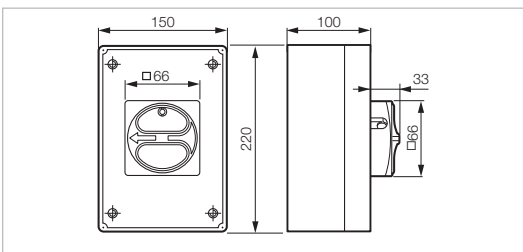
- 0174009
- 0174029

32 A

- 6P
- 6P+NC/NO

- 0172109
- 0172129

- 0174109
- 0174129



Cable entries: 4 x PG21

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172009-6

CABLE GLANDS

Part Number



PG16-GY

- PG16
- PG21

- Cable Range 10mm - 14mm
- Cable Range 13mm - 18mm

- PG16-GY
- PG21-GY

25A / 32A

► ENCLOSURES

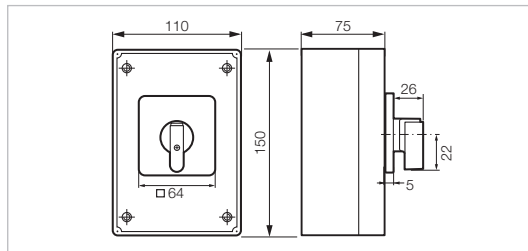
 Technical Info (p.196)

NON- PADLOCKABLE PRESENTATION



0172062

0174162



Cable entries: 4 x PG16

25 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0172062
- 0172072
- 0172082
- 0172092

Grey Handle
Part Number

- 0174062
- 0174072
- 0174082
- 0174092

32 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172162
- 0172172
- 0172182
- 0172192

- 0174162
- 0174172
- 0174182
- 0174192

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.

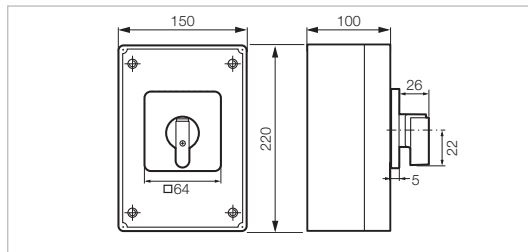
IE. 0172062-6

NON-PADLOCKABLE PRESENTATION



0172019

0174119



Cable entries: 4 x PG21

25 A

- 6P
- 6P + NC/NO

Yellow/Red Handle
Part Number

- 0172019
- 0172039

Grey Handle
Part Number

- 0174019
- 0174039

32 A

- 6P
- 6P+NC/NO

- 0172119
- 0172139

- 0174119
- 0174139

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.

IE. 0172019-6

CABLE GLANDS



PG16-GY

- PG16
- PG21

- Cable Range 10mm - 14mm
- Cable Range 13mm - 18mm

Part Number

- PG16-GY
- PG21-GY

25A / 32A

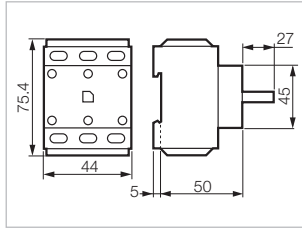
► BLOCKS

 Technical Info (p.196)

Part Number



0172000



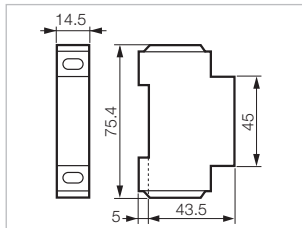
3-pole switch body without handle

25 A
32 A

0172000
0172100



0172065 0172185



Additional pole
(for use in enclosure only)

25 A
32 A

0172075
0172175

Neutral pole

25 A
32 A

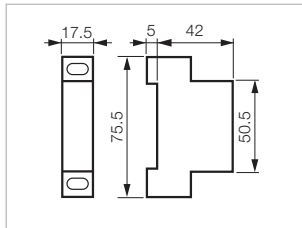
0172065
0172165

Junction block
Ground or Neutral

0172185



0172179



Auxiliary contact - 10A

NC/NO

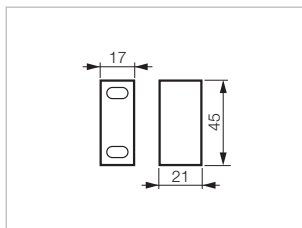
0172179

1 pole early break

0172195



0172195



25A / 32A

▶ HANDLES

 Technical Info (p.196)

Part Number



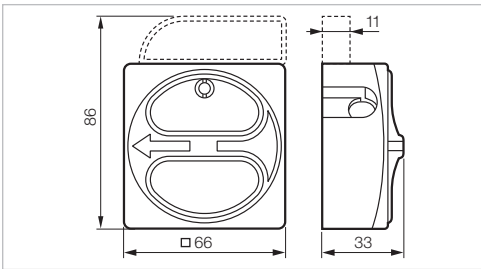
0172601

Padlockable presentation

Padlock with $\varnothing 6$ to 8 mm

- 66 - Yellow/Red
- 66 - Grey
- 66 - $\varnothing 22$ single-hole-mounting - Yellow/Red

0172601
0174601
0172603



0172602

Dim. Ref. 0172602

- A: 64
- B: 80

Dim. ref. 0172604

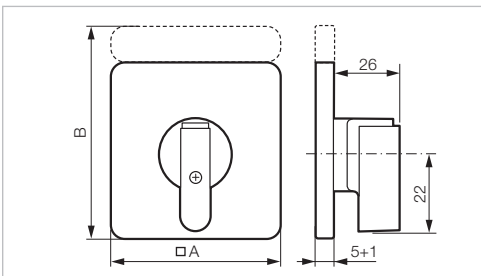
- A: 48
- B: 65

With plate, frame and handle

- 64 - Yellow/Red
- 48 - $\varnothing 22$ single-hole-mounting - Yellow/Red

0172602

0172604



25A / 32A

▶ EMPTY ENCLOSURES

 Technical Info (p.196)

PADLOCKABLE PRESENTATION

Part Number



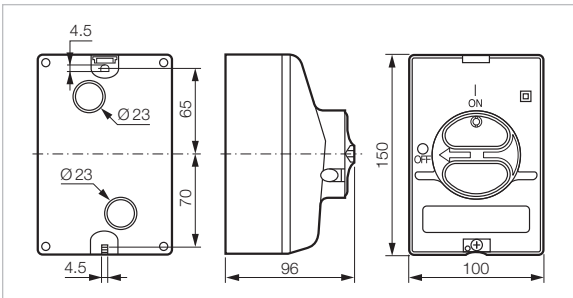
0172399

Dimensions 150 x 100 x 96 mm
 Supplied with padlockable handle,
 weatherproof seal and relay terminal
 For 3 and 4-pole switches with and without NC/NO
 Cable entries: 4 x PG16/M25

IP66-IK7

Grey base - yellow cover - red handle
 Grey base - grey cover - grey handle

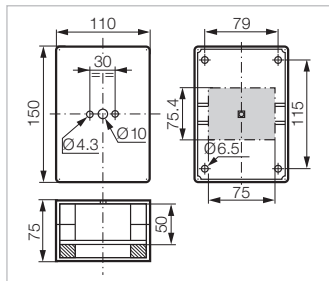
0172399
 0174399



WITHOUT HANDLE



0172549

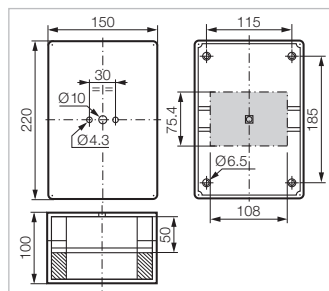


Grey - Up to 4 poles + auxiliary contact
 150 x 110 x 75 mm
 Cable entries: 4 x PG16

0172549



0172559



Grey - Up to 6 poles + auxiliary contact
 220 x 150 x 100 mm
 Cable entries: 4 x PG21

0172559

▶ ACCESSORIES

 Technical Info (p. 196)

Part Number



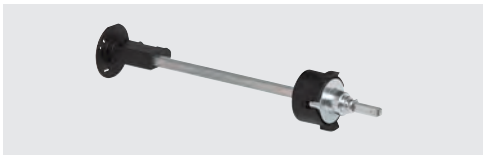
0172167



0174569



0172649



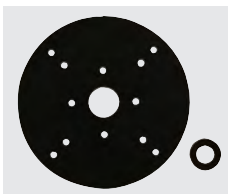
0174189



0174179



0174249



0172267



0174259



PG16-GY



STM25

Terminal covers

- For 3-pole body switch 0172167
- For additional pole, neutral pole or junction block 0172177
- For auxiliary contact NC/NO (pair) 0172189
- For early break auxiliary contact 0172199

Connection terminal kit

- Terminal connection for ground or neutral 0174449

Self-adhesive plates (for enclosures)

- Blank 0174599
- Engraved MAIN SWITCH 0174569

Duty labels

- Blank 0172629
- Engraved MAIN SWITCH 0172649

Kit for clutch drive presentation

- Short shaft without door interlock 0174189
- Long shaft without door interlock 0174199
- Without shaft and without door interlock 0174179

Kit for door interlock

0174249

IP 65 seal kits

For front mounting switches and enclosures

- Padlockable 66 or plate and frame 64 or 72 0172267

For rear mounting switches with clutch drive

- Padlockable 66 or plate and frame 64 or 72 0174259

Cable Glands

- PG16 Cable Range 10mm - 14mm PG16-GY
- PG21 Cable Range 13mm - 18mm PG21-GY

Stepped Gland

- M25 Cable Range 5mm - 21mm STM25

50A / 63A

▶ DOOR/PANEL MOUNTING

 Technical Info (p.196)

PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

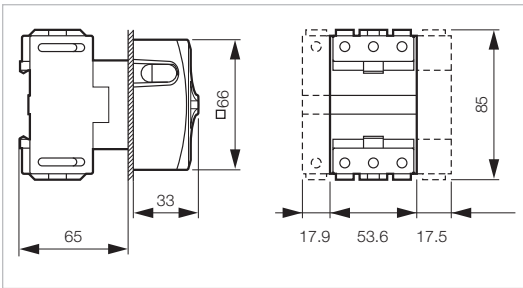
Grey Handle
Part Number



0172201



0174201



50 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172201
- 0172211
- 0172221
- 0172231

- 0174201
- 0174211
- 0174221
- 0174231

63 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172301
- 0172311
- 0172321
- 0172331

- 0174301
- 0174311
- 0174321
- 0174331

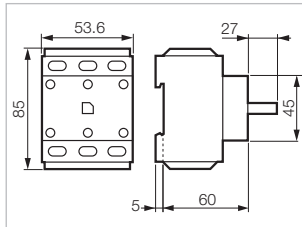
STANDARD VERSIONS IP40 RATED.
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172201-1

COMPONENTS AND ACCESSORIES

Part Number



0172300



3-pole switch body without handle

- 50 A
- 63 A

- 0172200
- 0172300

Additional pole

- 50 A
- 63 A

- 0172275
- 0172375

Neutral pole

- 50 A
- 63 A

- 0172265
- 0172365

Junction block
Ground or Neutral

- 0172385

Auxiliary contact - 10A

NC/NO

- 0172179

IP65 Seal Kit

- 0172267

Replacement Handle

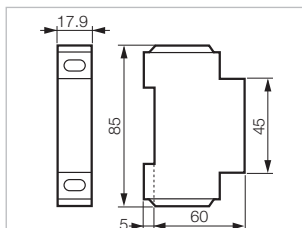
- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0172375

0172385



50A / 63A

▶ DOOR/PANEL MOUNTING

 Technical Info (p.196)

NON- PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

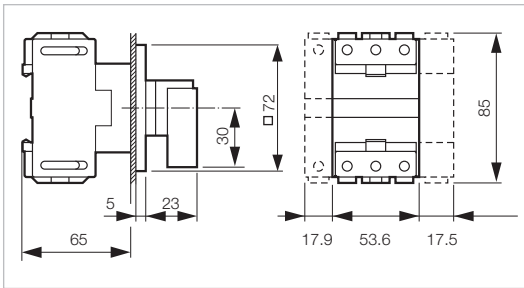
Grey Handle
Part Number



0172202



0174202



50 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172202
- 0172212
- 0172222
- 0172232

- 0174202
- 0174212
- 0174222
- 0174232

63 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172302
- 0172312
- 0172322
- 0172332

- 0174302
- 0174312
- 0174322
- 0174332

STANDARD VERSIONS IP40 RATED.

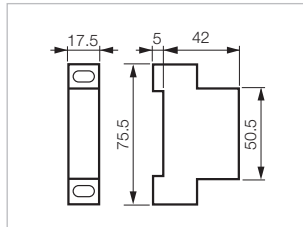
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172002-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

- 50 A
- 63 A

- 0172200
- 0172300

Additional pole

- 50 A
- 63 A

- 0172275
- 0172375

Neutral pole

- 50 A
- 63 A

- 0172265
- 0172365

Junction block

Ground or Neutral

0172385

Auxiliary contact - 10A

NC/NO

0172179

IP65 Seal Kit

0172267

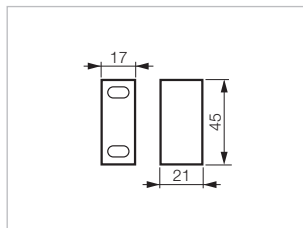
Replacement Handle

- 72 - Yellow/Red
- 72 - Grey

- 0172612
- 0174612



0172395



50 A / 63A

► DIN-RAIL IN-PANEL MOUNTING

 Technical Info (p.196)

PADLOCKABLE PRESENTATION

Grey Handle
Part Number



0174205

50 A

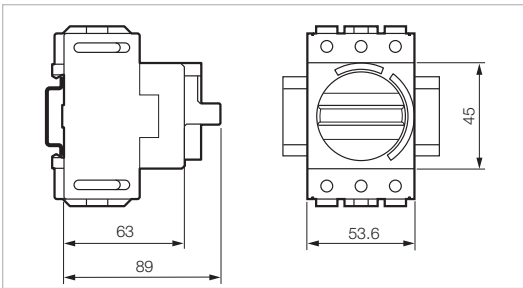
3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0174205
0174215
0174225
0174235

63 A

3P
3P+NC/NO
4P neutral on left
4P + NC/NO

0174305
0174315
0174325
0174335

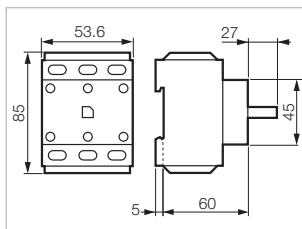


COMPONENTS AND ACCESSORIES

Part Number



0172300



3-pole switch body without handle

50 A
63 A

0172200
0172300

Additional pole

50 A
63 A

0172275
0172375

Neutral pole

50 A
63 A

0172265
0172365

Junction block Ground or Neutral

0172385

Auxiliary contact - 10A

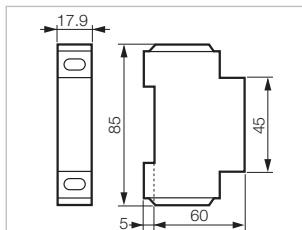
NC/NO

0172179



0172375

0172385



50A / 63A

▶ DOOR INTERLOCK MOUNTING - NO METAL SHAFT EXTENSION



PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



0165209NS

50 A

3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0165209NS
0165219NS
0165229NS
0165239NS

0168209NS
0168219NS
0168229NS
0168239NS



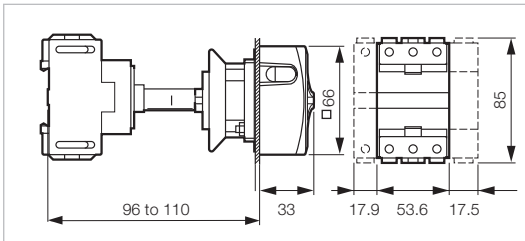
0168209NS

63 A

3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0165309NS
0165319NS
0165329NS
0165339NS

0168309NS
0168319NS
0168329NS
0168339NS



STANDARD VERSIONS IP40 RATED.

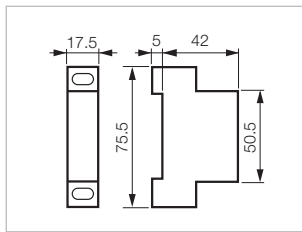
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165209NS-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

50 A
63 A

0172200
0172300

Additional pole

50 A
63 A

0172275
0172375

Neutral pole

50 A
63 A

0172265
0172365

Junction block
Ground or Neutral

0172385

Auxiliary contact - 10A

NC/NO

0172179

IP65 Seal Kit

0174259

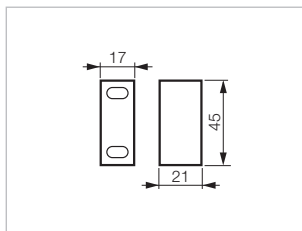
Replacement Handle, Plate, and Frame

- 66 - Yellow/Red
- 66 - Grey

0172601
0174601



0172395



50A / 63A

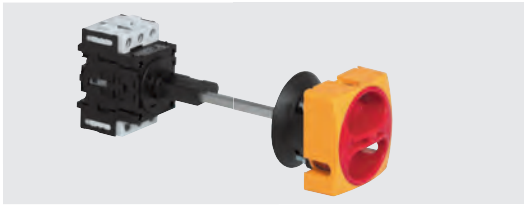
▶ DOOR INTERLOCK MOUNTING - SHORT METAL SHAFT EXTENSION



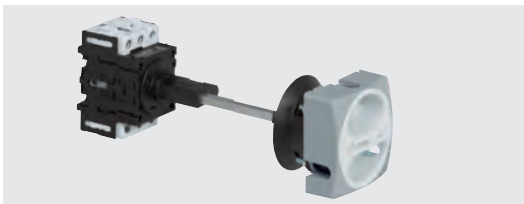
PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

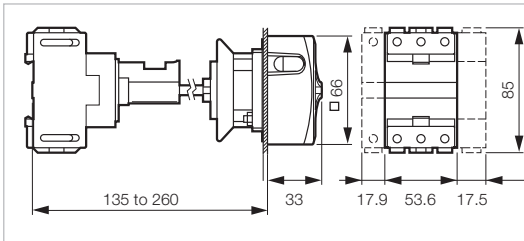
Grey Handle
Part Number



0165209SS



0168209SS



50 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165209SS
- 0165219SS
- 0165229SS
- 0165239SS

- 0168209SS
- 0168219SS
- 0168229SS
- 0168239SS

63 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165309SS
- 0165319SS
- 0165329SS
- 0165339SS

- 0168309SS
- 0168319SS
- 0168329SS
- 0168339SS

STANDARD VERSIONS IP40 RATED.

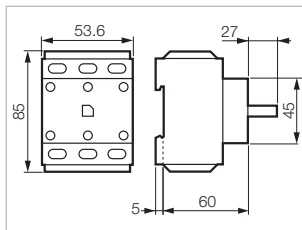
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165209SS-1

COMPONENTS AND ACCESSORIES

Part Number



0172300



3-pole switch body without handle

- 50 A
- 63 A

- 0172200
- 0172300

Additional pole

- 50 A
- 63 A

- 0172275
- 0172375

Neutral pole

- 50 A
- 63 A

- 0172265
- 0172365

Junction block
Ground or Neutral

- 0172385

Auxiliary contact - 10A

- NC/NO

- 0172179

IP65 Seal Kit

- 0174259

Replacement Handle

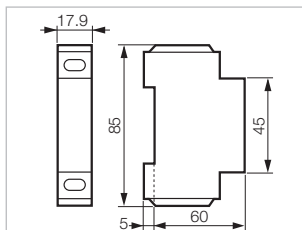
- 66 - Yellow/Red
- 66 - Grey

- 0172601
- 0174601



0172375

0172385



50A / 63A

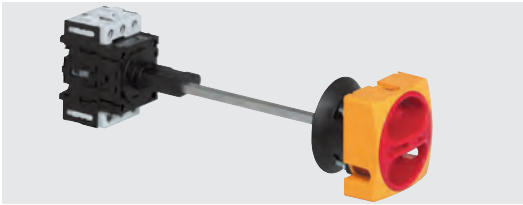
▶ DOOR INTERLOCK MOUNTING - LONG METAL SHAFT EXTENSION



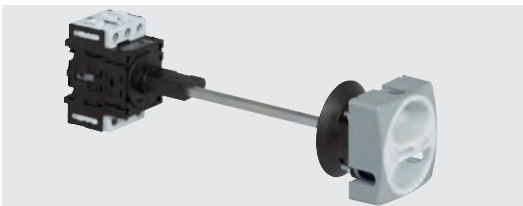
PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

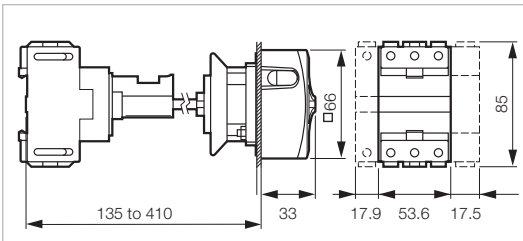
Grey Handle
Part Number



0165209LS



0168209LS



50 A

3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0165209LS
0165219LS
0165229LS
0165239LS

0168209LS
0168219LS
0168229LS
0168239LS

63 A

3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0165309LS
0165319LS
0165329LS
0165339LS

0168309LS
0168319LS
0168329LS
0168339LS

STANDARD VERSIONS IP40 RATED.

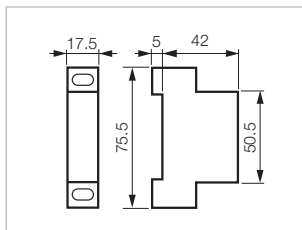
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165209LS-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

50 A
63 A

0172200
0172300

Additional pole

50 A
63 A

0172275
0172375

Neutral pole

50 A
63 A

0172265
0172365

Junction block

Ground or Neutral

0172385

Auxiliary contact - 10A

NC/NO

0172179

IP65 Seal Kit

0174259

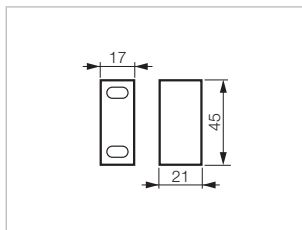
Replacement Handle

66 - Yellow/Red
 66 - Grey

0172601
0174601



0172395

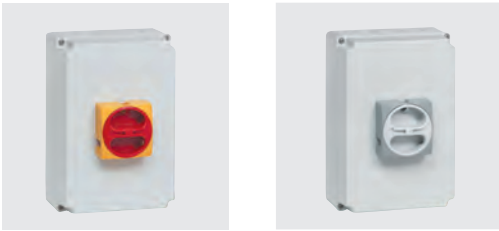


50A / 63A

► ENCLOSURES

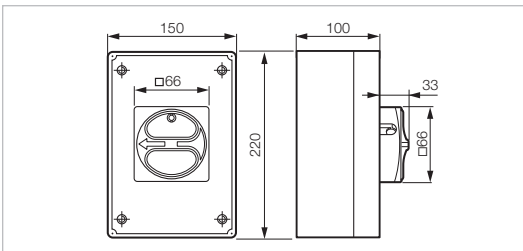
 Technical Info (p. 196)

PADLOCKABLE PRESENTATION



0172261

0174261



Cable entries: 4 x PG21

50 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0172261
- 0172271
- 0172281
- 0172291

Grey Handle
Part Number

- 0174261
- 0174271
- 0174281
- 0174291

63 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172361
- 0172371
- 0172381
- 0172391

- 0174361
- 0174371
- 0174381
- 0174391

STANDARD VERSIONS IP40 RATED.

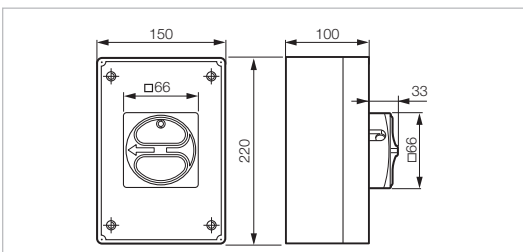
**TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172261-6**

PADLOCKABLE PRESENTATION



0172209

0174209



Cable entries: 4 x PG29

50 A

- 6P
- 6P + NC/NO

Yellow/Red Handle
Part Number

- 0172209
- 0172229

Grey Handle
Part Number

- 0174209
- 0174229

63 A

- 6P
- 6P+NC/NO

- 0172309
- 0172329

- 0174309
- 0174329

STANDARD VERSIONS IP40 RATED.

**TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172209-6**

CABLE GLANDS



PG21-GY

- PG21
- PG29

- Cable Range 13mm - 18mm
- Cable Range 18mm - 25mm

Part Number

- PG21-GY
- PG29-GY

50A / 63A

ENCLOSURES

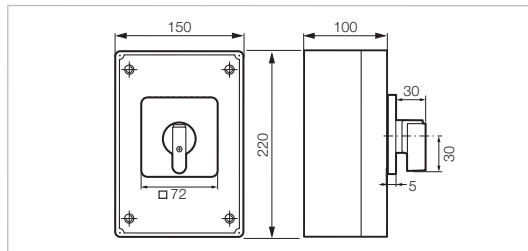
 Technical Info (p.196)

NON- PADLOCKABLE PRESENTATION



0172262

0174262



Cable entries: 4 x PG21

50 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0172262
- 0172272
- 0172282
- 0172292

Grey Handle
Part Number

- 0174262
- 0174272
- 0174282
- 0174292

63 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172362
- 0172372
- 0172382
- 0172392

- 0174362
- 0174372
- 0174382
- 0174392

STANDARD VERSIONS IP40 RATED.

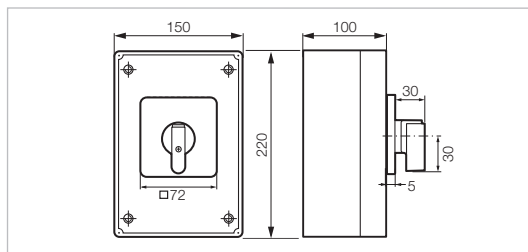
**TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172262-6**

NON- PADLOCKABLE PRESENTATION



0172219

0174219



Cable entries: 4 x PG29

50 A

- 6P
- 6P + NC/NO

Yellow/Red Handle
Part Number

- 0172219
- 0172239

Grey Handle
Part Number

- 0174219
- 0174239

63 A

- 6P
- 6P+NC/NO

- 0172319
- 0172339

- 0174319
- 0174339

STANDARD VERSIONS IP40 RATED.

**TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172219-6**

CABLE GLANDS



PG21-GY

- PG21
- PG29

- Cable Range 13mm - 18mm
- Cable Range 18mm - 25mm

Part Number

- PG21-GY
- PG29-GY

50A / 63A

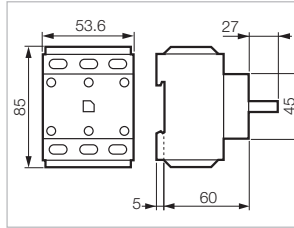
► BLOCKS

 Technical Info (p.196)

Part Number



0172300



3-pole body switch without presentation

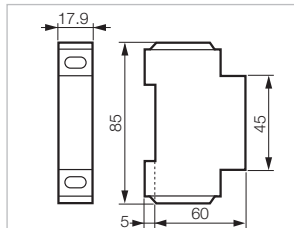
50 A
63 A

0172200
0172300



0172375

0172385



Additional pole
(for use in enclosure only)

50 A
63 A

0172275
0172375

Neutral pole

50 A
63 A

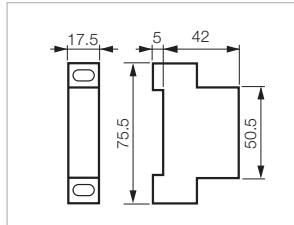
0172265
0172365

Junction block
Ground or Neutral

0172385



0172179



Auxiliary contact - 10A

NC/NO

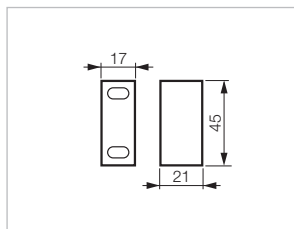
1 pole early break

0172179

0172395



0172395



50A / 63A

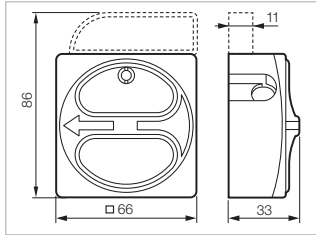
► HANDLES

 Technical Info (p. 196)

Part Number



0172601



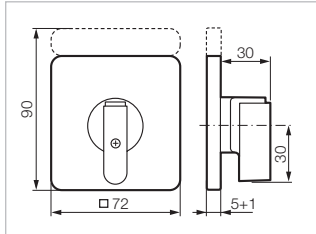
Padlockable presentation
Padlock: \varnothing 6 to 8 mm

- 66 - Yellow/Red
- 66 - Grey

0172601
0174601



0172612



With plate, frame and handle

- 72 - Yellow/Red
- 72 - Grey

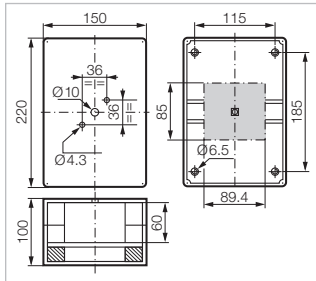
0172612
0174612

► EMPTY ENCLOSURES

WITHOUT HANDLE



0172569

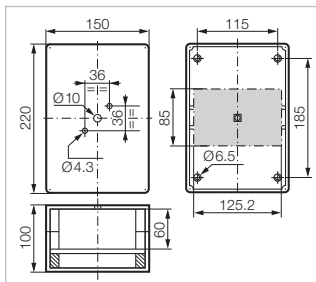


Grey - Up to 4 poles + auxiliary contact
220 x 150 x 100 mm
Cable entries: 4 x PG21

0172569



0172579








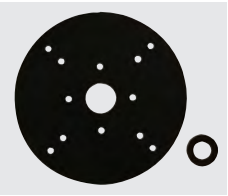


Grey - Up to 6 poles + auxiliary contact
220 x 150 x 100 mm
Cable entries: 4 x PG29

0172579

50A / 63A

▶ ACCESSORIES

 Technical Info (p. 196)

		Part Number
		
0172367	Terminal covers	
	For 3-pole switch	0172367
	For additional pole, neutral pole or junction block	0172377
	For NC/NO auxiliary contact (pair)	0172189
	For early break auxiliary contact	0172199
		
0172649	Duty labels	
	Blank	0172629
	Engraved INTER PRINCIPAL	0172639
	Engraved MAIN SWITCH	0172649
		
0174189	Kit for clutch drive presentation	
	Short shaft without door interlock	0174189
	Long shaft without door interlock	0174199
	Without shaft and without door interlock	0174179
		
0174179	kit for door interlock	0174249
		
0174249		
		
0172267	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable <input type="checkbox"/> 66 or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72	0172267
	For rear mounting with clutch drive	
	Padlockable <input type="checkbox"/> 66 or plate and frame <input type="checkbox"/> 64 or <input type="checkbox"/> 72	0174259
		
0174259	Cable Glands	
	PG21 Cable Range 13mm - 18mm	PG21-GY
	PG29 Cable Range 18mm - 25mm	PG29-GY
		
PG21-GY		

80A / 100A

▶ DOOR/PANEL MOUNTING

 Technical Info (p. 196)

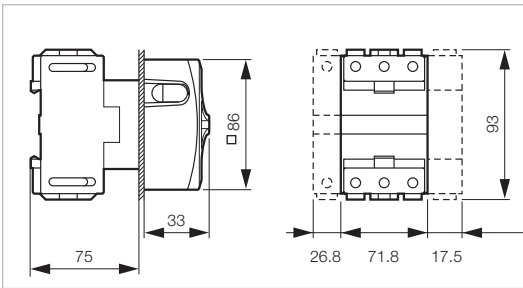
PADLOCKABLE PRESENTATION



0172401



0174501



80 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0172401
- 0172411
- 0172421
- 0172431

Grey Handle
Part Number

- 0174401
- 0174411
- 0174421
- 0174431

100 A

- 3P
- 3P+NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0172501
- 0172511
- 0172521
- 0172531

- 0174501
- 0174511
- 0174521
- 0174531

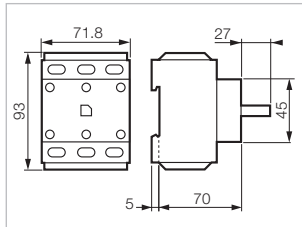
STANDARD VERSIONS IP40 RATED.
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172401-1

COMPONENTS AND ACCESSORIES

Part Number



0172400



3-pole switch body without handle

- 80 A
- 100 A

- 0172400
- 0172500

Additional pole

- 80 A
- 100 A

- 0172475
- 0172575

Neutral pole

- 80 A
- 100 A

- 0172465
- 0172565

Junction block Ground or Neutral

0172585

Auxiliary contact - 10A

NC/NO

0172179

IP65 Seal Kit

0172277

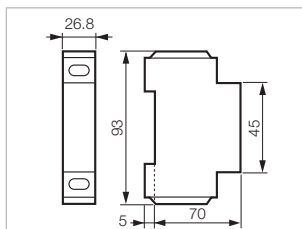
Replacement Handle

- 86 - Yellow/Red
- 86 - Grey

- 0172621
- 0174621



0172475



80A / 100A

▶ DOOR/PANEL MOUNTING

 Technical Info (p. 196)

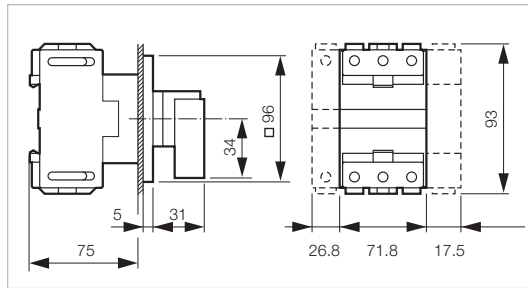
NON- PADLOCKABLE PRESENTATION



0172402



0174502



80 A

	Yellow/Red Handle Part Number	Grey Handle Part Number
3P	0172402	0174402
3P + NC/NO	0172412	0174412
4P neutral on left	0172422	0174422
4P + NC/NO	0172432	0174432

100 A

3P	0172502	0174502
3P + NC/NO	0172512	0174512
4P neutral on left	0172522	0174522
4P + NC/NO	0172532	0174532

STANDARD VERSIONS IP40 RATED.

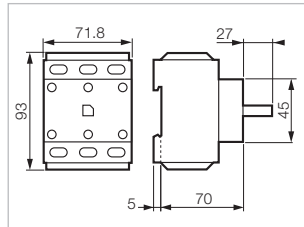
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0172402-1

COMPONENTS AND ACCESSORIES

Part Number



0172400



3-pole switch body without handle

80 A	0172400
100 A	0172500

Additional pole

80 A	0172475
100 A	0172575

Neutral pole

80 A	0172465
100 A	0172565

Junction block Ground or Neutral

0172585

Auxiliary contact - 10A

NC/NO	0172179
-------	---------

IP65 Seal Kit

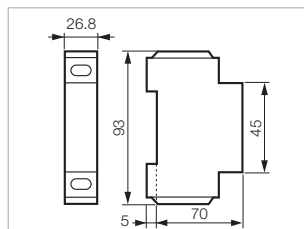
0172277

Replacement Handle

<input type="checkbox"/> g6 - Yellow/Red	0172622
<input type="checkbox"/> g6 - Grey	0174622



0172475



80A / 100A

► DIN-RAIL IN-PANEL MOUNTING



Technical Info (p. 196)

PADLOCKABLE PRESENTATION

Grey Handle
Part Number



0174405

80 A

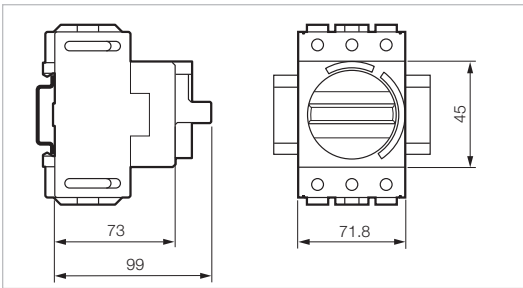
3P
3P + NC/NO
4P neutral on left
4P + NC/NO

0174405
0174415
0174425
0174435

100 A

3P
3P+NC/NO
4P neutral on left
4P + NC/NO

0174505
0174515
0174525
0174535

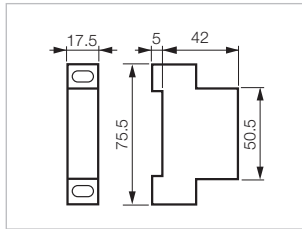


COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

80 A
100 A

0172400
0172500

Additional pole

80 A
100 A

0172475
0172575

Neutral pole

80 A
100 A

0172465
0172565

Junction block

Ground or Neutral

0172585

Auxiliary contact - 10A

NC/NO

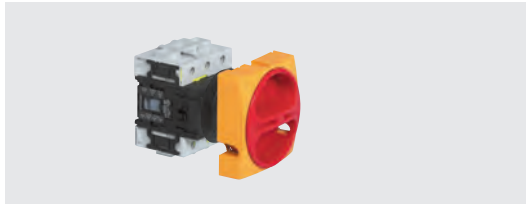
0172179

80A / 100A

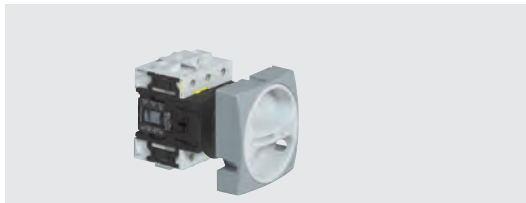
▶ DOOR INTERLOCK MOUNTING - NO METAL SHAFT EXTENSION



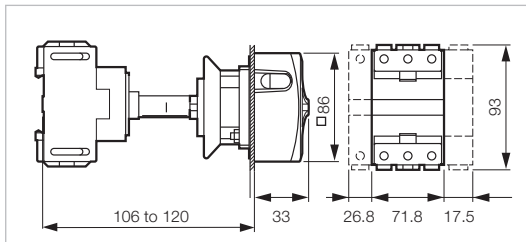
PADLOCKABLE PRESENTATION



0165409NS



0168509NS



80 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0165409NS
- 0165419NS
- 0165429NS
- 0165439NS

Grey Handle
Part Number

- 0168409NS
- 0168419NS
- 0168429NS
- 0168439NS

100 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165509NS
- 0165519NS
- 0165529NS
- 0165539NS

- 0168509NS
- 0168519NS
- 0168529NS
- 0168539NS

STANDARD VERSIONS IP40 RATED.

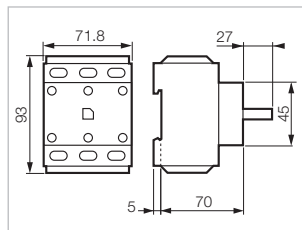
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165409NS-1

COMPONENTS AND ACCESSORIES

Part Number



0172400



3-pole switch body without handle

- 80 A
- 100 A

- 0172400
- 0172500

Additional pole

- 80 A
- 100 A

- 0172475
- 0172575

Neutral pole

- 80 A
- 100 A

- 0172465
- 0172565

Junction block Ground or Neutral

- 0172585

Auxiliary contact - 10A

- NC/NO

- 0172179

IP65 Seal Kit

- 0174269

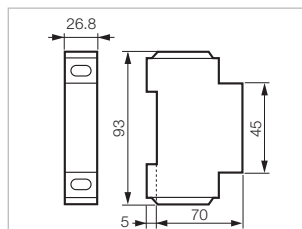
Replacement Handle

- 86 - Yellow/Red
- 86 - Grey

- 0172621
- 0174621



0172475



80A / 100A

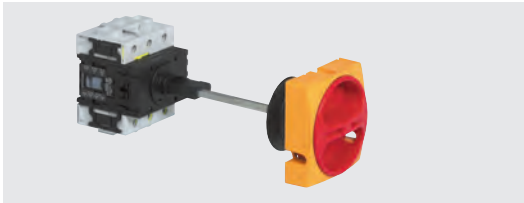
▶ DOOR INTERLOCK MOUNTING - SHORT METAL SHAFT EXTENSION



PADLOCKABLE PRESENTATION

Yellow/Red Handle
Part Number

Grey Handle
Part Number



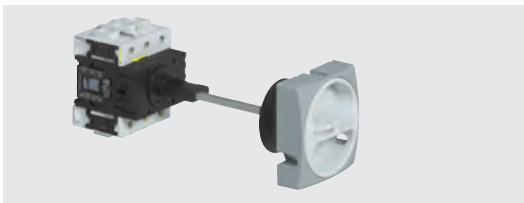
0165409SS

80 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165409SS
- 0165419SS
- 0165429SS
- 0165439SS

- 0168409SS
- 0168419SS
- 0168429SS
- 0168439SS



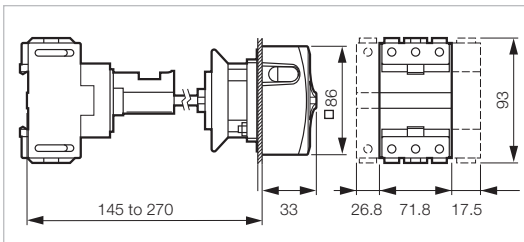
0168509SS

100 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165509SS
- 0165519SS
- 0165529SS
- 0165539SS

- 0168509SS
- 0168519SS
- 0168529SS
- 0168539SS



STANDARD VERSIONS IP40 RATED.

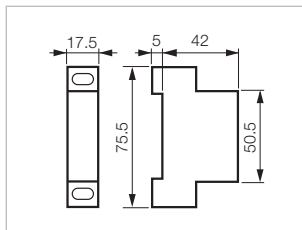
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165409SS-1

COMPONENTS AND ACCESSORIES

Part Number



0172179



3-pole switch body without handle

- 80 A
- 100 A

- 0172400
- 0172500

Additional pole

- 80 A
- 100 A

- 0172475
- 0172575

Neutral pole

- 80 A
- 100 A

- 0172465
- 0172565

Junction block

Ground or Neutral

- 0172585

Auxiliary contact - 10A

NC/NO

- 0172179

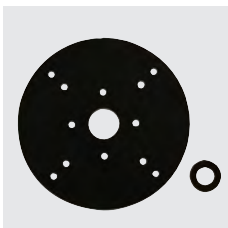
IP65 Seal Kit

- 0174269

Replacement Handle

- 86 - Yellow/Red
- 86 - Grey

- 0172621
- 0174621



0174269

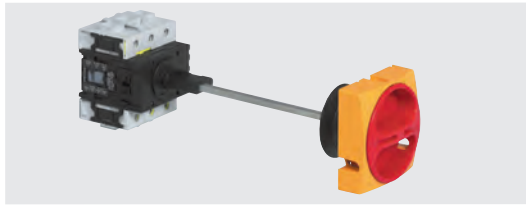
80A / 100A

▶ DOOR INTERLOCK MOUNTING - LONG METAL SHAFT EXTENSION

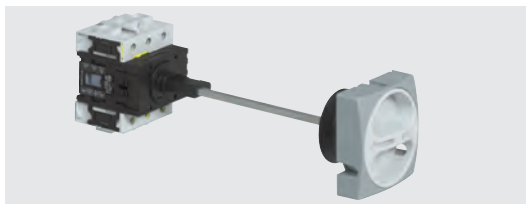


Technical Info (p.196)

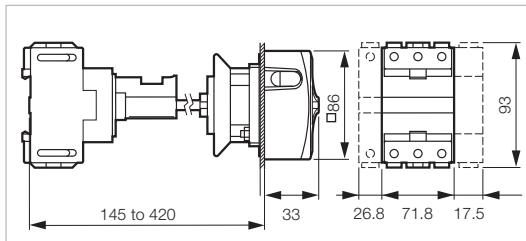
PADLOCKABLE PRESENTATION



0165409LS



0168509LS



80 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

Yellow/Red Handle
Part Number

- 0165409LS
- 0165419LS
- 0165429LS
- 0165439LS

Grey Handle
Part Number

- 0168409LS
- 0168419LS
- 0168429LS
- 0168439LS

100 A

- 3P
- 3P + NC/NO
- 4P neutral on left
- 4P + NC/NO

- 0165509LS
- 0165519LS
- 0165529LS
- 0165539LS

- 0168509LS
- 0168519LS
- 0168529LS
- 0168539LS

STANDARD VERSIONS IP40 RATED.

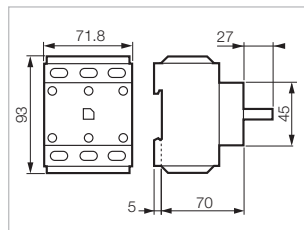
TO ORDER WITH IP65 GASKETS ADD -1 TO PART NUMBERS ABOVE.
IE. 0165409LS-1

COMPONENTS AND ACCESSORIES

Part Number



0172400



3-pole switch body without handle

- 80 A
- 100 A

- 0172400
- 0172500

Additional pole

- 80 A
- 100 A

- 0172475
- 0172575

Neutral pole

- 80 A
- 100 A

- 0172465
- 0172565

Junction block

Ground or Neutral

0172585

Auxiliary contact

NC/NO

0172179

IP65 Seal Kit

0174269

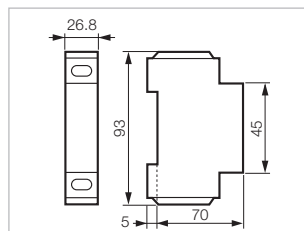
Replacement Handle

- 86 - Yellow/Red
- 86 - Grey

- 0172621
- 0174621



0172475



80A / 100A

► ENCLOSURES

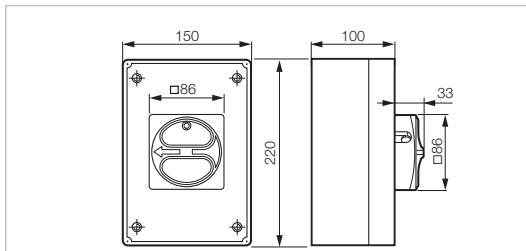
 Technical Info (p.196)

PADLOCKABLE PRESENTATION



0172461

0174561



Cable entries: 4 x PG29

80 A

	Yellow/Red Handle Part Number	Grey Handle Part Number
3P	0172461	0174461
3P + NC/NO	0172471	0174471
4P neutral on left	0172481	0174481
4P + NC/NO	0172491	0174491

100 A

3P	0172561	0174561
3P+NC/NO	0172571	0174571
4P neutral on left	0172581	0174581
4P + NC/NO	0172591	0174591

STANDARD VERSIONS IP40 RATED.

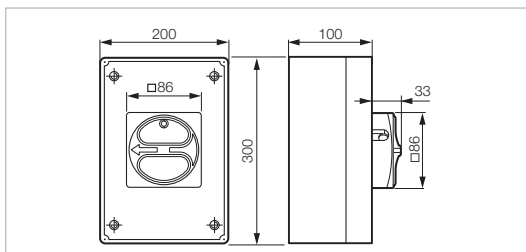
TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172461-6

PADLOCKABLE PRESENTATION



0172409

0174509



Cable entries: 4 x PG29 and 4 x PG21

80 A

6P	0172409	0174409
6P + NC/NO	0172429	0174429

100 A

6P	0172509	0174509
6P+NC/NO	0172529	0174529

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.
IE. 0172409-6

CABLE GLANDS



PG21-GY

		Part Number
PG21	Cable Range 13mm - 18mm	PG21-GY
PG29	Cable Range 18mm - 25mm	PG29-GY

80A / 100A

ENCLOSURES

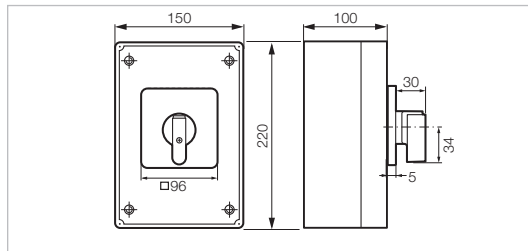
 Technical Info (p.196)

NON- PADLOCKABLE PRESENTATION



0172462

0174562



Cable entries: 4 x PG29

80 A

	Yellow/Red Handle Part Number	Grey Handle Part Number
3P	0172462	0174462
3P + NC/NO	0172472	0174472
4P neutral on left	0172482	0174482
4P + NC/NO	0172492	0174492

100 A

3P	0172562	0174562
3P+NC/NO	0172572	0174572
4P neutral on left	0172582	0174582
4P + NC/NO	0172592	0174592

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.

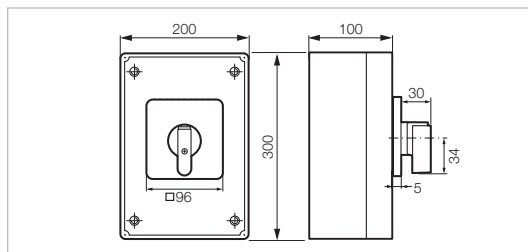
IE. 0172462-6

NON- PADLOCKABLE PRESENTATION



0172419

0174519



Cable entries: 4 x PG29 and 4 x PG21

80 A

6P	0172419	0174419
6P + NC/NO	0172439	0174439

100 A

6P	0172519	0174519
6P+NC/NO	0172539	0174539

STANDARD VERSIONS IP40 RATED.

TO ORDER WITH IP65 GASKETS ADD -6 TO PART NUMBERS ABOVE.

IE. 0172419-6

CABLE GLANDS



PG21-GY

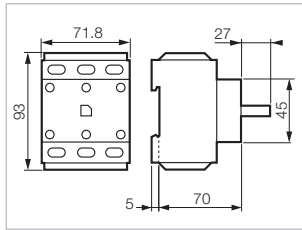
		Part Number
PG21	Cable Range 13mm - 18mm	PG21-GY
PG29	Cable Range 18mm - 25mm	PG29-GY

80A / 100A

► BLOCKS

 Technical Info (p.196)

Part Number



3-pole body switch without presentation

80 A
100 A

0172400
0172500

0172400



Additional pole
(for use in enclosure only)

80 A
100 A

0172475
0172575

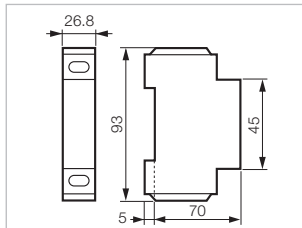
0172475

0172465

Neutral pole

80 A
100 A

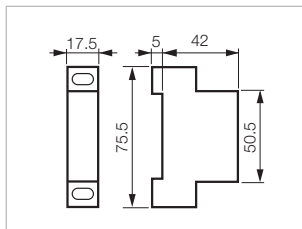
0172465
0172565



Junction block
Ground or Neutral

0172585

0172585



Auxiliary contact - 10A

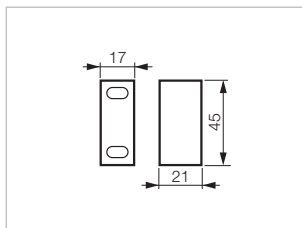
NC/NO

1 pole early break

0172179

0172595

0172179



0172595

80A / 100A

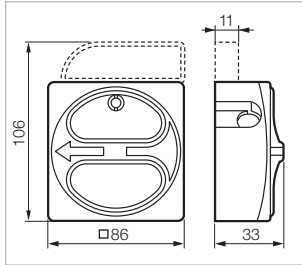
► HANDLES

 Technical Info (p.196)

Part Number



0172621



Padlockable presentation

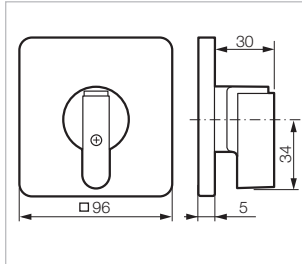
Padlock: \varnothing 6 to 8 mm

- 86 - Yellow/Red
- 86 - Grey

0172621
0174621



0172622



With plate, frame and handle

- 96 - Yellow/Red
- 96 - Grey

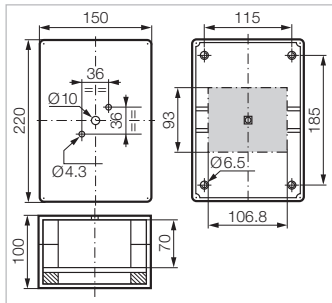
0172622
0174622

► EMPTY ENCLOSURES

WITHOUT HANDLE



0172589

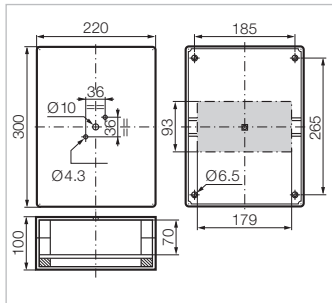


Grey - Up to 3 poles + auxiliary contact
220 x 150 x 100 mm
Cable entries: 4 x PG29

0172589



0172599





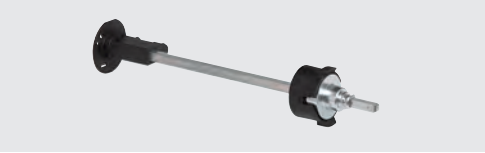


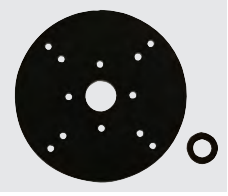


Grey - Up to 6 poles + auxiliary contact
300 x 200 x 100 mm
Cable entries: 4 x PG29 and 4 x PG21

0172599

80A / 100A

▶ ACCESSORIES

 Technical Info (p. 196)

		Part Number
 0172567	Terminal covers	
	For 3-pole body switch	0172567
	For additional pole, neutral pole or junction block	0172577
	For NC/NO auxiliary contact (pair)	0172189
	For early break auxiliary contact	0172199
 0172649	Duty labels	
	Blank	0172629
	Engraved MAIN SWITCH	0172649
 0174189	Kit for clutch drive presentation	
	Short shaft without door interlock	0174189
	Long shaft without door interlock	0174199
	Without shaft and without door interlock	0174179
 0174179	Kit for door interlock	
		0174249
 0174249	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable <input type="checkbox"/> 86 or plate and frame <input type="checkbox"/> 96	0172277
	For rear mounting with clutch drive	
	Padlockable <input type="checkbox"/> 86 or plate and frame <input type="checkbox"/> 96	0174269
 0172277	Cable Glands	
	PG21	Cable Range 13mm - 18mm
 0174269	PG29	Cable Range 18mm - 25mm
		PG21-GY
 PG21-GY		PG29-GY

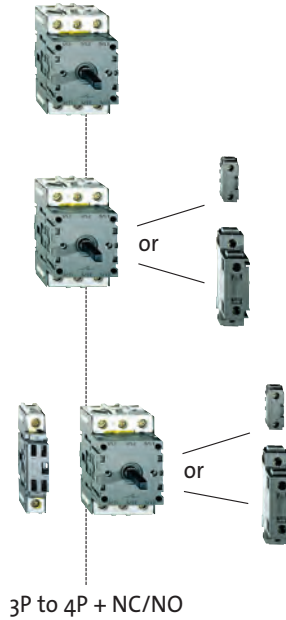
Enclosure Selection Guide

► 25A / 32A

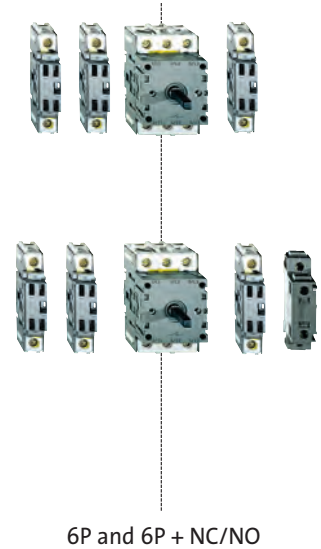


Example: switch disconnecter 32 A
Enclosed 4 poles,
padlockable presentation

Enclosure 150 x 100 x 96 mm



Enclosure 220 x 150 x 100 mm

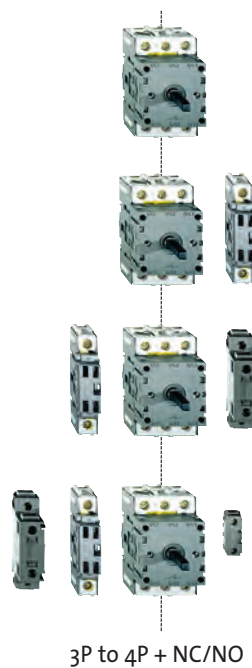


► 50A / 63A

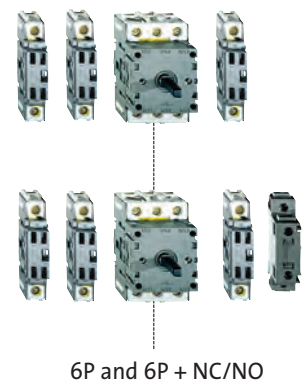


Example: switch disconnecter 50 A
Enclosed 6 poles,
Plate, frame and handle presentation

Enclosure 220 x 150 x 100mm



Enclosure 220 x 150 x 100 mm



Enclosure Selection Guide

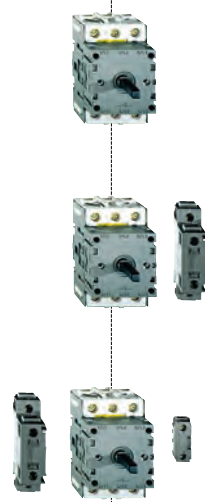
▶ 80A / 100A

Enclosure 220 x 150 x 100 mm

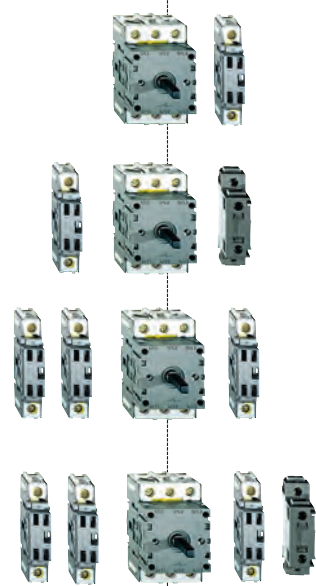
Enclosure 300 x 220 x 100 mm



Example: switch disconnector 100 A
Enclosed 4 poles,
padlockable presentation



3P and 3P + NC/NO



4P and 6P + NC/NO

LEGEND



basic 3-pole block



additional pole
additional neutral pole
junction block



Auxiliary contact NC/NO



early break auxiliary contact

Technical Specifications

▶ GENERAL

Characteristics	25 A	32 A	50 A	63 A	80 A	100 A
UL/cUL - suitable as motor disconnect						
▶ Rated voltage (V)	600	600	600	600	600	600
▶ General Use Current (A)	25	32	50	63	80	100
▶ Motor Ratings (hp)						
1 x 120 V	0.75	1	1.5	3	3	5
1 x 240 V	1.5	2	3	5	10	10
1 x 277 V	2	3	5	7.5	10	15
3 x 120 V	1.5	2	3	5	7.5	10
3 x 240 V	3	5	7.5	10	20	25
3 x 480 V	7.5	10	15	20	40	50
3 x 600 V	7.5	10	15	20	40	50
▶ Auxiliary Blocks						
NO/NC	A600					
Early Make	B300					
Early Break	B300					
▶ Wire Gauge (AWG)						
3-Pole Body, Additional Pole, Late Break Neutral, Junction Block	8 - 14	8 - 14	4 - 14	4 - 14	1 - 14	1 - 14
Auxiliary Contacts	14 - 18	14 - 18	14 - 18	14 - 18	14 - 18	14 - 18
▶ Short Circuit Rating						
Fuse Type K5 (A)	5000	5000	5000	5000	5000	10000
Fuse Size (A)	40	40	80	80	125	125
Rated break capacity	330	330	800	800	800	800

Technical Specifications

▶ GENERAL

Characteristics	25 A	32 A	50 A	63 A	80 A	100 A
IEC						
▶ Rated insulation voltage U_i (V)	690	690	690	690	690	690
▶ Conventional free air thermal current I_{th} Uninterrupted rated current I_u (A)	25	32	50	63	80	100
▶ Conventional enclosed thermal current I_{the} (A)	20	25	40	50	63	80
▶ Rated impulse withstand voltage (overvoltage category III - pollution degree 3 U_{imp} (kV)	6	6	6	6	6	6
▶ Rated operating current I_e (A) AC - 21 A/22 A Conform to IEC 60947-3	25	32	50	63	80	100
▶ Rated operating power (kW)						
AC 23 A						
3 x 230 V	5.5	5.5	15	15	18.5	22
3 x 400 V	7.5	11	18.5	22	30	37
3 x 500 V	7.5	11	22	30	37	45
3 x 690 V	7.5	11	18.5	22	22	30
AC 3						
3 x 230 V	4	4	7.5	11	15	18.5
3 x 400 V	5.5	7.5	15	18.5	22	30
3 x 500 V	5.5	7.5	15	22	30	37
3 x 690 V	5.5	7.5	15	18.5	18.5	22
▶ Make - break characteristics ($I_{eff}/400$ V)						
Rated make capacity	710	710	1270	1270	1970	1970
Rated break capacity	330	330	800	800	800	800
▶ Short circuit characteristics						
Rated short term withstand current I_{cW} ($I_{eff}/400$ V/1 s)	350	430	500	760	1100	1500
Rated short circuit make capacity I_{cm} (kA peak/400 V)	1	1	1.8	1.8	2.8	2.8
Short circuit current (kA $I_{eff}/400$ V)	10	10	10	10	10	10
with fuse gI/gG (A)	25	32	50	63	80	100

Technical Specifications

▶ GENERAL

Characteristics	25 A	32 A	50 A	63 A	80 A	100 A
▶ Mechanical life AC 20 (million)	0.1	0.1	0.04	0.04	0.04	0.04
▶ Connections						
Stranded wire + (min/max) cap (mm ²)	0.75/6	0.75/6	1.5/16	1.5/16	2.5/35	2.5/35
Solid wire (mm ²)	10	10	25	25	50	50
▶ Operating and Storage temperature	-30°C to +70 °C , -22°F to +158°F					
▶ Protection rating	rear of panel: IPxxB front of panel IP 40 in standard version (IP 65 on request)					
▶ Conformity to standards	IEC 60697-3 -EN 60 947-3, UL508, CSA22.2, CB Certificate					
▶ Climatic resistance Tropical atmosphere according to	IEC 60068-2-30 Cyclic damp heat					

▶ AUXILIARY CONTACTS

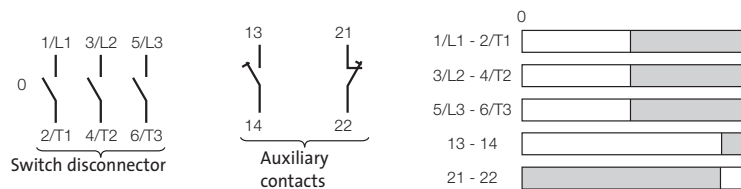
Characteristics	25 A	32 A	50 A	63 A	80 A	100 A
▶ Rated insulation voltage Ui (V)	400	400	400	400	400	400
▶ Conventional free air thermal current I _{th}						
Continuous rated current I _u (A)	10	10	10	10	10	10
▶ Rated operating current I _e (A)						
AC 15						
230 V	6	6	6	6	6	6
400 V	4	4	4	4	4	4
▶ PROTECTION AGAINST SHORT CIRCUIT BY FUSE GG (A)	10	10	10	10	10	10
▶ Max. connection stranded wire (mm ²)	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5

Technical Specifications

► ENCLOSURES

Characteristics	150x100x96	220x150x100	220x150x100	220x150x100	220x150x100	300x200x100
► Rating	25 and 32 A 3P to 4P +NC/NO	25 and 32 A 6P and 6P +NC/NO	50 and 63 A 3P to 4P +NC/NO	50 and 63 A 6P and 6P +NC/NO	80 and 100 A 3P and 3P +NC/NO	80 and 100 A 4P to 6P +NC/NO
► Cable inputs	2 x 2 PG 16 OR 2 x 2 M25	2 x 2 PG 21	2 x 2 PG 21	2 x 2 PG 29	2 x 2 PG 29	2 x 2 PG 21 2 x 2 PG 29
► Ø knockouts (mm)	PG 16: 22.5 ISO M25: 25	28.5	28.5	37.5	37.5	37.5 and 28.5
► No. of knockouts (top and bottom)	2	2	2	2	2	4
► Panel mount	by 2 screws	by 4 screws	by 4 screws	by 4 screws	by 4 screws	by 4 screws
► Base/cover assembly	by 1 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel	by 6 screws self-tapping stainless steel
► Switch/base assembly	on 35 mm DIN rail (this rail is notched for positioning the switch)					
► Handles mounting	screwing on shaft pre-pierced cover					
► Insulation	Class II installed (provided that the correct insulation plugs are used with the enclosure)					
► Impact withstand	IK07					
► Flameproof	650°C					
► Protection rating	IP 66		IP 40 (IP 65 upon request)			

► Contact operating diagram



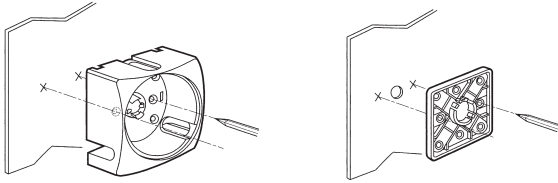
► Switch padlocking

In general: up to 3 padlocks \varnothing 4 to 8 mm
 Switch with 1 auxiliary contact NC/NO: up to 3 padlocks \varnothing 6 to 8 mm
 Modular presentation: 1 padlock \varnothing 6 to 8 mm

Technical Specifications

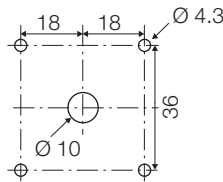
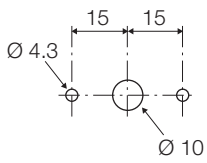
► MOUNTING - PANEL DRILLING

Panel/Door Handle Mounting

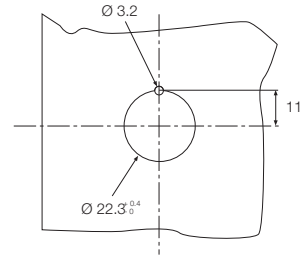


25A/32A

50A/63A/80A/100A

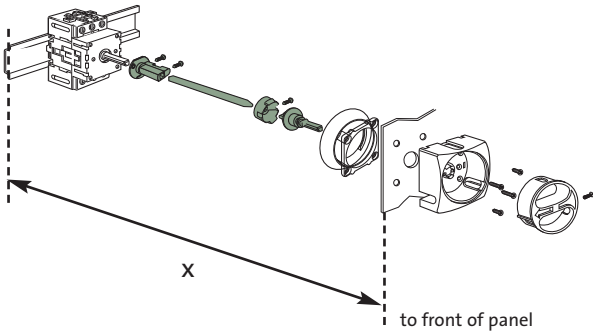


Ø22 Single Hole Mounting

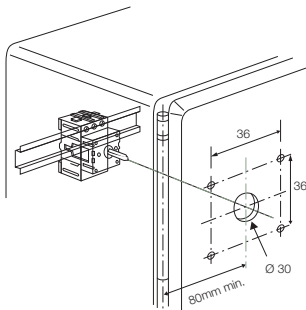
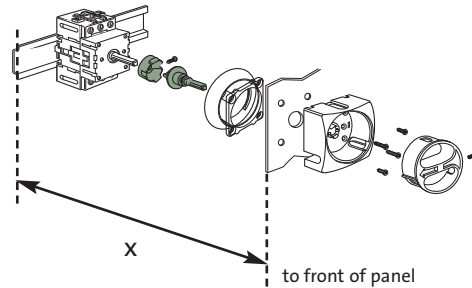


Door Interlock System

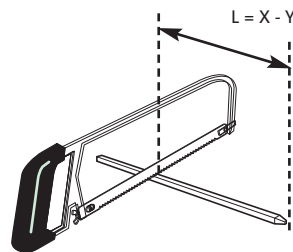
Short or Long Metal Shaft Version



No Metal Shaft Version



Minimum Distance to Hinge



	X			Y
	without shaft	with short shaft	with long shaft	
25A / 32A	86 - 100 mm	125 - 250 mm	125 - 400 mm	92 mm
50A / 63A	96 - 110 mm	135 - 260 mm	135 - 410 mm	102 mm
80A / 100A	106 - 120 mm	145 - 270 mm	145 - 420 mm	112 mm

PR ONE CAM SWITCH SERIES

A selection of standard switch functions pre-configured for fast and reliable solutions to be achieved quickly



PR12-ONE



PR21-ONE



PR26-ONE

► Design and Functions

- Manually operated control switches
- 45° switching angle- Forced opened contacts
- Finger protected (degree of protection up to IP 20)
- Short-circuit rated
- Terminal screws in open position

- Switching capacity Ie (A) : 12 A, 20 A and 25 A - UL508
- Switching capacity Ie (A) : 16 A, 25 A and 32 A - AC21
- Front presentation : aluminum plate with black handle with index
- Laser marking on legend plate-Front degree of protection IP 40
- 2-screw panel mount - interval 30 mm



► Applications

- On-Off Switches
- Changeover Switches
- Multi-step Selector Switches
- Instrument Switches

PR ONE CAM SWITCHES

 Technical Info (p. 205)

▶ ON/OFF SWITCHES

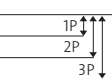
From 1 to 3 poles, each pole being a path for the current, the circuit being open at starting position 0 and closed in position 1

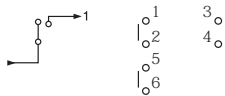
ON/OFF SWITCHES

Part Number



227603

No. of contacts	0	1	
1-2		X	
3-4		X	
5-6		X	



12 A
 1 Pole - 1 Contact
 2 Poles - 2 Contacts
 3 Poles - 3 Contacts



227600
227601
227602

20 A
 1 Pole - 1 Contact
 2 Poles - 2 Contacts
 3 Poles - 3 Contacts



227603
227604
227605

25 A
 1 Pole - 1 Contact
 3 Poles - 3 Contacts



227606
227608

▶ CHANGE-OVER SWITCHES WITH “OFF” POSITION

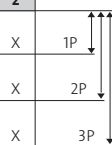
From 1 to 3 poles, each pole having two current paths, open at starting position 0, one path closes on position 1, the other on position 2

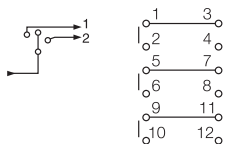
CHANGE-OVER SWITCHES

Part Number



227609

No. contacts	1	0	2	
1-2	X			
3-4			X	
5-6	X			
7-8			X	
9-10	X			
11-12			X	



12 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227609
227610
227611

20 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227612
227613
227614

25 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227615
227616
227617

PR ONE CAM SWITCHES

 Technical Info (p. 205)

▶ SELECTOR SWITCHES

2 to 5 way switches, each pole being from 2 to 5 paths, respectively, for the current, the starting position is at 0

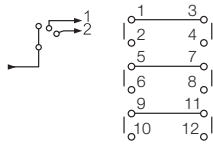
2-WAY SWITCHES WITH OFF

Part Number



227630

No. of contacts	0	1	2	
1-2		X		1P
3-4			X	
5-6		X		2P
7-8			X	
9-10		X		3P
11-12			X	



12 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227618
227619
227620

20 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227624
227625
227626

25 A
 1 Pole - 2 Contacts
 2 Poles - 4 Contacts
 3 Poles - 6 Contacts



227630
227631
227632

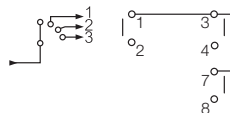
3-WAY SWITCHES WITH OFF

Part Number



227621

No. of contacts	0	1	2	3	
1-2		X			1P
3-4			X		
7-8				X	



12 A
 1 Pole - 3 Contacts



227621

20 A
 1 Pole - 3 Contacts



227627

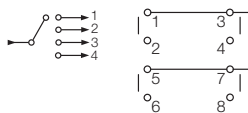
4-WAY SWITCH WITH OFF

Part Number



227622

No. of contacts	0	1	2	3	4	
1-2		X				1P
3-4			X			
5-6				X		
7-8					X	



12 A
 1 Pole - 4 Contacts



227622

PR ONE CAM SWITCHES

 Technical Info (p. 205)

▶ SELECTOR SWITCHES (CONTINUED)

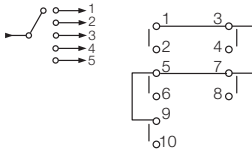
5-WAY SWITCHES WITH OFF

Part Number



227623

No. of contacts	Positions				
	0	1	2	3	4
1 - 2		X			
3 - 4			X		
5 - 6				X	
7 - 8					X
9 - 10					X



12 A
1 Pole - 5 Contacts



227623

20 A
1 Pole - 5 Contacts



227629

▶ INSTRUMENT SWITCHES

For voltmeters wired into 3-phase networks with neutral.

For ammeters wired with 3 CT's connected into the corresponding circuits. The CT's can be mounted in series with common point.

VOLTMETER SWITCH, WITH NEUTRAL

Part Number



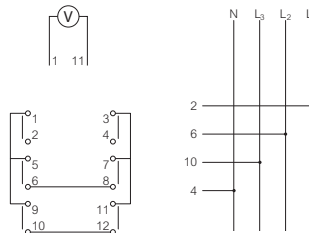
227636

No. of contacts	L3	L2	L1	0	L1	L2	L3
	L1	L3	L2	0	N	N	N
1 - 2	X		X		X		
3 - 4					X	X	X
5 - 6		X				X	
7 - 8			X				
9 - 10							X
11 - 12	X	X					

12 A
6 Contacts



227636



AMMETER SWITCH, 3 CTS WITH COMMON POINT

Part Number



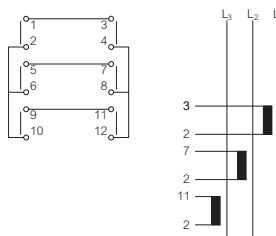
227637

No. OF CONTACTS	0	L1	L2	L3
	1 - 2	X	X	
3 - 4	X	X		
5 - 6		X	X	
7 - 8		X	X	
9 - 10	X		X	X
11 - 12			X	X

12 A
6 Contacts



227637



PR ONE CAM SWITCHES

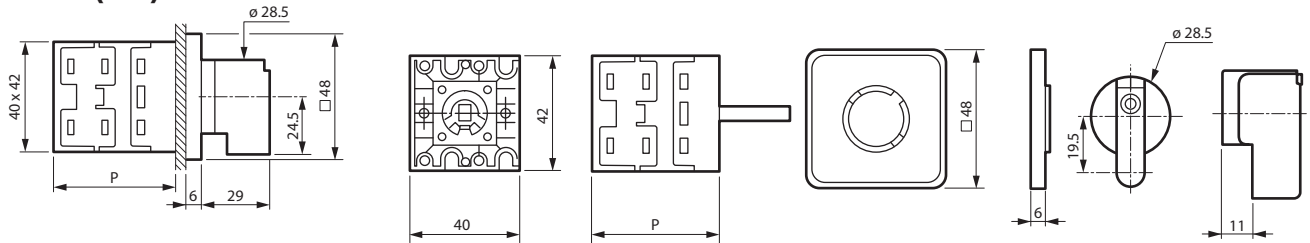
► Technical Specifications

Electrical Characteristics - UL/CSA		PR12-ONE	PR21-ONE	PR26-ONE
► UL/CSA GENERAL USE (600 V)		12 A	20 A	25 A
1 PHASE	110/120 VAC	0.5 HP	1.5 HP	2 HP
3 PHASE	220/240 VAC	3 HP	5 HP	7.5 HP
	440/480 VAC	5 HP	10 HP	15 HP
	550/600 VAC	3 HP	15 HP	20 HP
UL 508 RECOGNIZED		YES	YES	YES
CSA CERTIFIED		YES	YES	YES
► Maximum wire size (AWG)				
	- rigid	10	8/10 ⁽¹⁾	8
	- flexible	14	12	8
(1): terminals with jumpers				
Electrical Characteristics - IEC		PR12-ONE	PR21-ONE	PR26-ONE
► Thermal current AC-20 Ith I_c(A)		20	32	40
► Rated operating current AC-21 A I_e(A) Switching of resistive loads including moderate overloads		16	25	32
► Rated operating current AC-15 A I_e(A) Control of electromagnetic loads		6	10	12
► Performance in AC 23 (kW) Switching of motors or other highly inductive loads				
	- 3 x 230 V	4	7.5	11
	- 3 x 400 V	7.5	11	11
► Performance in AC 3 (kW) Control of squirrel-cage motors starting and switching off motors while running				
	- 3 x 230 V	3	4	5.5
	- 3 x 400 V	4	7.5	11
► Rated insulation voltage U_i (V)		690	690	690
► Rated short time withstand current I_{cw} (A) for 1 sec		300	420	800
► Maximum wire size (mm² rigid/flexible)		4/2.5	6/4	6/6
► Mechanical durability (number of operations)		800,000 (max. rate 150 per hour)		
► Operating temperature limits		- 20°C to + 70°C (- 4°F to + 158°F)		
► Degree of protection		Front IP40, Rear IP20		

PR ONE CAM SWITCHES

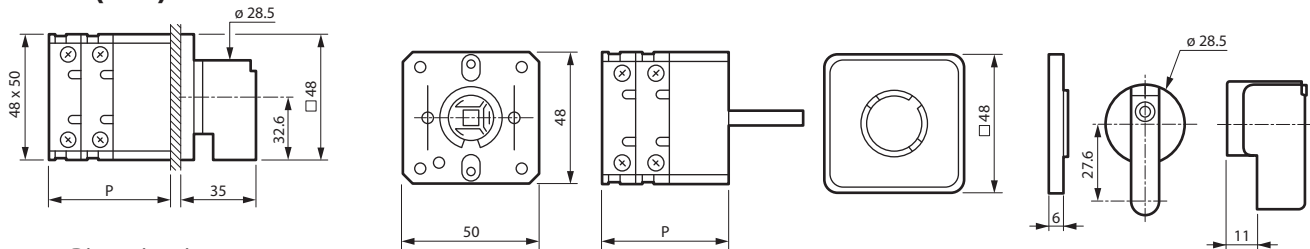
► DIMENSIONS

PR12-ONE (12A)



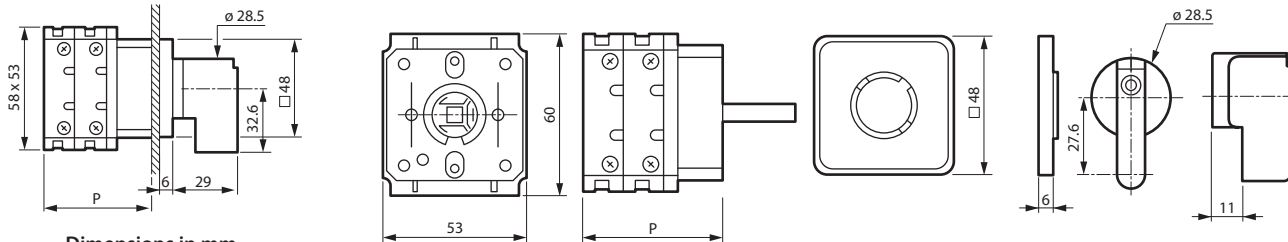
Dimensions in mm
 *P: 36 (1-2 contacts)
 46 (3-4 contacts)
 56 (5-6 contacts)

PR21-ONE (20A)



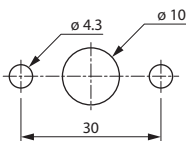
Dimensions in mm
 *P: 33 (1-2 contacts)
 45 (3-4 contacts)
 57 (5-6 contacts)

PR26-ONE (25A)



Dimensions in mm
 *P: 36 (1-2 contacts)
 51 (3-4 contacts)
 66 (5-6 contacts)

► PANEL CUT-OUT



Protection, flexibility and safety

Cam switches from 10 to 63 A

► STANDARD SOLUTIONS P. 208 - 233

The expertise of a specialist like Baco allows us to offer custom solutions, even the most specific.



Choice of electrical configuration
from 1 to 24 contacts



Metal shaft
can withstand more than
1 million operations

**Customized
engravings**

► ADVANTAGES

- Conform to European and international standards: IEC, UL and CSA, and CCC
- A metal shaft capable of withstanding more than 1 million operations
- More than 50,000 different electrical diagrams available
- Many specific functions and special markings

MINI CAM SWITCHES

▶ $\phi 16/22$ mm SINGLE HOLE MOUNTING

 Technical Info (p. 209)

GENERAL USE RATING 12A

IP65 standard



223501













223511



223525



223528

Function	General use rating - amps	Number of poles	Number of contacts	Positions	Part Number
ON/OFF	10	1	1		223501
	10	2	2		223502
	10	3	3		223503
	10	4	4		223504
CHANGEOVER WITHOUT "OFF"	10	1	2		
	10	2	4	223512	
	10	3	6	223513	
	10	4	8	223514	
CHANGEOVER WITH "OFF"	10	1	2		223505
	10	2	4		223506
	10	3	6		223507
	10	4	8		223508
THREE WAY WITHOUT "OFF"	10	1	3		223515
	10	2	6		223516
	10	3	9		223517
THREE WAY WITH "OFF"	10	1	3		223521
	10	2	6		223522
	10	3	9		223523
FOUR WAY WITHOUT "OFF"	10	1	4		223525
	10	2	8		223526
AMMETER - 3 CTs WITH COMMON POINT Contact Configuration - 8151	10		6		223529
VOLTMETER - WITHOUT NEUTRAL Contact Configuration - 8351	10		4		223527
VOLTMETER - WITH NEUTRAL Contact Configuration - 8357	10		6		223528

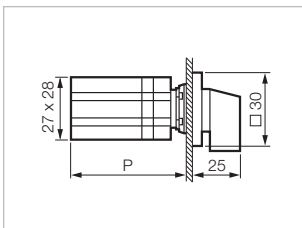
MINI CAM SWITCHES

▶ TECHNICAL SPECIFICATIONS

Characteristics	Data
▶ Thermal current I _{th}	10 A
▶ Rated operating current I _e	
- in AC 21	10 A
- in AC 15	2.5 A
▶ Motor performance in AC-3	
- 3 x 230 V	1.8 kW
- 3 x 400 V	2.2 kW
▶ Motor performance in AC-23	
- 1 x 230 V	0.75 kW
- 1 x 400 V	1.1 kW
- 3 x 230 V	1.8 kW
- 3 x 400 V	3 kW
▶ Rated insulation voltage U _i (V)	500 V
▶ Rated operating current in DC-1	
L/R < 1ms	
- 24 V DC	10 A
- 40 V DC	6 A
- 60 V DC	2.5 A
- 110 V DC	0.7 A
- 220 V DC	0.3 A

Characteristics	Data
▶ Rated conditional short-circuit current	3 kA
▶ Max. fuse rating	10 A
▶ Degree of protection	IP 65 IP 2x at the rear of the panel
▶ Wire size (flexible and rigid)	2 x 1.5 mm ² max. 1 x 0.5 mm ² min.
▶ Operating temperature	- 20°C to + 50°C
▶ Standards	IEC/EN 60947-1 IEC/EN 60947-3 CSA 22.2 UL 508

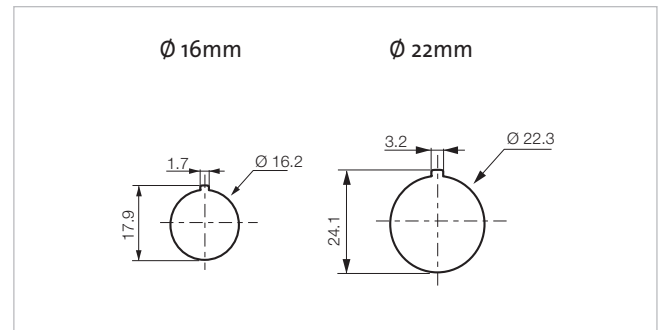
Dimensions



Dimensions in mm
 *P: 46 (1-2 CONTACTS)
 58 (3-4 CONTACTS)
 70 (5-6 CONTACTS)
 82 (7-8 CONTACTS)
 94 (9-10 CONTACTS)

Panel Thickness
 1 to 5.5mm

Mounting



CAM SWITCHES

► SINGLE HOLE MOUNTING $\phi 22\text{mm}$

 Technical Info (p. 234)

GENERAL USE RATING 12A

IP40 standard - IP65 available upon request



HANDLE WITH LEGEND





HANDLE



LEVER



KEY

Switch Series	Operator	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	HANDLE/LEGEND	1	1		PR12 1101 A4 E N48MD50	NB01AX80
PR12	HANDLE/LEGEND	2	2		PR12 1102 A4 E N48MD50	NB02AX80
PR12	HANDLE/LEGEND	3	3		PR12 1103 A4 E N48MD50	NB03AX80
PR12	HANDLE/LEGEND	4	4		PR12 1104 A4 E N48MD50	NB04AX80
PR12	HANDLE	1	1		PR12 1101 A4 E C21RA03	NB01AC113
PR12	HANDLE	2	2		PR12 1102 A4 E C21RA03	NB02AC113
PR12	HANDLE	3	3		PR12 1103 A4 E C21RA03	NB03AC113
PR12	HANDLE	4	4		PR12 1104 A4 E C21RA03	NB04AC113
PR12	LEVER	1	1		PR12 1101 A4 E C21RB03	NB01AC123
PR12	LEVER	2	2		PR12 1102 A4 E C21RB03	NB02AC123
PR12	LEVER	3	3		PR12 1103 A4 E C21RB03	NB03AC123
PR12	LEVER	4	4		PR12 1104 A4 E C21RB03	NB04AC123
PR12	KEY	1	1	Key Removable in both positions	PR12 1101 A4 E C21RC00	NB01AC1C1
PR12	KEY	2	2		PR12 1102 A4 E C21RC00	NB02AC1C1
PR12	KEY	3	3		PR12 1103 A4 E C21RC00	NB03AC1C1
PR12	KEY	4	4		PR12 1104 A4 E C21RC00	NB04AC1C1
PR12	HANDLE/LEGEND	1	2		PR12 2251 D4 E N48MD50	NC51DX80
PR12	HANDLE/LEGEND	2	4		PR12 2252 D4 E N48MD50	NC52DX80
PR12	HANDLE/LEGEND	3	6		PR12 2253 D4 E N48MD50	NC53DX80
PR12	HANDLE/LEGEND	4	8		PR12 2254 D4 E N48MD50	NC54DX80
PR12	HANDLE	1	2		PR12 2251 D4 E C21RA03	NC51DC113
PR12	HANDLE	2	4		PR12 2252 D4 E C21RA03	NC52DC113
PR12	HANDLE	3	6		PR12 2253 D4 E C21RA03	NC53DC113
PR12	HANDLE	4	8		PR12 2254 D4 E C21RA03	NC54DC113
PR12	LEVER	1	2		PR12 2251 D4 E C21RB03	NC51DC123
PR12	LEVER	2	4		PR12 2252 D4 E C21RB03	NC52DC123
PR12	LEVER	3	6		PR12 2253 D4 E C21RB03	NC53DC123
PR12	LEVER	4	8		PR12 2254 D4 E C21RB03	NC54DC123

CAM SWITCHES

► SINGLE HOLE MOUNTING $\phi 22\text{mm}$

 Technical Info (p. 234)

GENERAL USE RATING 12A

IP40 standard - IP65 available upon request



HANDLE WITH LEGEND





HANDLE



LEVER



KEY

Switch Series	Operator	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	HANDLE/LEGEND	1	2		PR12 2201 C8 E N48MD50	NC01GX80
PR12	HANDLE/LEGEND	2	4		PR12 2202 C8 E N48MD50	NC02GX80
PR12	HANDLE/LEGEND	3	6		PR12 2203 C8 E N48MD50	NC03GX80
PR12	HANDLE/LEGEND	4	8		PR12 2204 C8 E N48MD50	NC04GX80
PR12	HANDLE	1	2		PR12 2201 C8 E C21RA03	NC01GC113
PR12	HANDLE	2	4		PR12 2202 C8 E C21RA03	NC02GC113
PR12	HANDLE	3	6		PR12 2203 C8 E C21RA03	NC03GC113
PR12	HANDLE	4	8		PR12 2204 C8 E C21RA03	NC04GC113
PR12	LEVER	1	2		PR12 2201 C8 E C21RB03	NC01GC123
PR12	LEVER	2	4		PR12 2202 C8 E C21RB03	NC02GC123
PR12	LEVER	3	6		PR12 2203 C8 E C21RB03	NC03GC123
PR12	LEVER	4	8		PR12 2204 C8 E C21RB03	NC04GC123
PR12	KEY	1	2	Key Removable in position '0' only	PR12 2201 C8 E C21RC00	NC01GC1C1
PR12	KEY	2	4		PR12 2202 C8 E C21RC00	NC02GC1C1
PR12	KEY	3	6		PR12 2203 C8 E C21RC00	NC03GC1C1
PR12	KEY	4	8		PR12 2204 C8 E C21RC00	NC04GC1C1
PR12	HANDLE/LEGEND	1	3		PR12 2301 A4 E N48MD50	ND01AX80
PR12	HANDLE/LEGEND	2	6		PR12 2302 A4 E N48MD50	ND02AX80
PR12	HANDLE/LEGEND	3	9		PR12 2303 A4 E N48MD50	ND03AX80
PR12	HANDLE/LEGEND	4	12		PR12 2304 A4 E N48MD50	ND04AX80
PR12	HANDLE	1	3		PR12 2301 A4 E C21RA03	ND01AC113
PR12	HANDLE	2	6		PR12 2302 A4 E C21RA03	ND02AC113
PR12	HANDLE	3	9		PR12 2303 A4 E C21RA03	ND03AC113
PR12	HANDLE	4	12		PR12 2304 A4 E C21RA03	ND04AC113
PR12	LEVER	1	3		PR12 2301 A4 E C21RB03	ND01AC123
PR12	LEVER	2	6		PR12 2302 A4 E C21RB03	ND02AC123
PR12	LEVER	3	9		PR12 2303 A4 E C21RB03	ND03AC123
PR12	LEVER	4	12		PR12 2304 A4 E C21RB03	ND04AC123
PR12	KEY	1	3	Key Removable in all positions	PR12 2301 A4 E C21RC00	ND01AC1C1
PR12	KEY	2	6		PR12 2302 A4 E C21RC00	ND02AC1C1
PR12	KEY	3	9		PR12 2303 A4 E C21RC00	ND03AC1C1
PR12	KEY	4	12		PR12 2304 A4 E C21RC00	ND04AC1C1

CAM SWITCHES

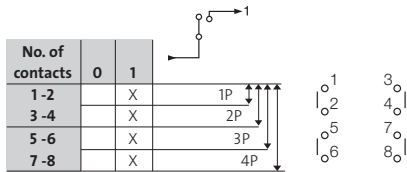
▶ ON/OFF SWITCHES

 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration



NB02AQ1









SB04AQ1



ZB04AQ7



HB03AQ7

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	1		PR12 1101 A4 E Q48PN50	NB01AQ1
PR12	12	2	2		PR12 1102 A4 E Q48PN50	NB02AQ1
PR12	12	3	3		PR12 1103 A4 E Q48PN50	NB03AQ1
PR12	12	4	4		PR12 1104 A4 E Q48PN50	NB04AQ1
PR17	16	1	1		PR17 1101 A4 E Q48PN50	SB01AQ1
PR17	16	2	2		PR17 1102 A4 E Q48PN50	SB02AQ1
PR17	16	3	3		PR17 1103 A4 E Q48PN50	SB03AQ1
PR17	16	4	4		PR17 1104 A4 E Q48PN50	SB04AQ1
PR21	20	1	1		PR21 1101 A4 E Q48PN50	TB01AQ1
PR21	20	2	2		PR21 1102 A4 E Q48PN50	TB02AQ1
PR21	20	3	3		PR21 1103 A4 E Q48PN50	TB03AQ1
PR21	20	4	4		PR21 1104 A4 E Q48PN50	TB04AQ1
PR26	25	1	1		PR26 1101 A4 E Q72MN50	ZB01AQ7
PR26	25	2	2		PR26 1102 A4 E Q72MN50	ZB02AQ7
PR26	25	3	3		PR26 1103 A4 E Q72MN50	ZB03AQ7
PR26	25	4	4		PR26 1104 A4 E Q72MN50	ZB04AQ7
PR40	50	1	1		PR40 1101 A4 E Q72MN60	HB01AQ7
PR40	50	2	2		PR40 1102 A4 E Q72MN60	HB02AQ7
PR40	50	3	3		PR40 1103 A4 E Q72MN60	HB03AQ7
PR40	50	4	4		PR40 1104 A4 E Q72MN60	HB04AQ7
PR63	63	1	1		PR63 1101 A4 E Q72MN60	IB01AQ7
PR63	63	2	2		PR63 1102 A4 E Q72MN60	IB02AQ7
PR63	63	3	3		PR63 1103 A4 E Q72MN60	IB03AQ7
PR63	63	4	4		PR63 1104 A4 E Q72MN60	IB04AQ7

CAM SWITCHES

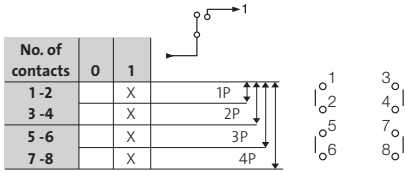
▶ ON/OFF SWITCHES

 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration



NB04AXQ









TB01AXQ



ZB02AXQ



IB02AAQ

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	1		PR12 1101 A4 BCQ3	NB01AXQ
PR12	12	2	2		PR12 1102 A4 BCQ3	NB02AXQ
PR12	12	3	3		PR12 1103 A4 BCQ3	NB03AXQ
PR12	12	4	4		PR12 1104 A4 BCQ3	NB04AXQ
PR17	16	1	1		PR17 1101 A4 BCQ3	SB01AXQ
PR17	16	2	2		PR17 1102 A4 BCQ3	SB02AXQ
PR17	16	3	3		PR17 1103 A4 BCQ3	SB03AXQ
PR17	16	4	4		PR17 1104 A4 BCQ3	SB04AXQ
PR21	20	1	1		PR21 1101 A4 BCQ3	TB01AXQ
PR21	20	2	2		PR21 1102 A4 BCQ3	TB02AXQ
PR21	20	3	3		PR21 1103 A4 BCQ3	TB03AXQ
PR21	20	4	4		PR21 1104 A4 BCQ3	TB04AXQ
PR26	25	1	1		PR26 1101 A4 BCQ3	ZB01AXQ
PR26	25	2	2		PR26 1102 A4 BCQ3	ZB02AXQ
PR26	25	3	3		PR26 1103 A4 BCQ3	ZB03AXQ
PR26	25	4	4		PR26 1104 A4 BCQ3	ZB04AXQ
PR40	50	1	1		PR40 1101 A4 BCF Q72MN60	HB01AAQ
PR40	50	2	2		PR40 1102 A4 BCF Q72MN60	HB02AAQ
PR40	50	3	3		PR40 1103 A4 BCF Q72MN60	HB03ABQ
PR40	50	4	4		PR40 1104 A4 BCF Q72MN60	HB04ABQ
PR63	63	1	1		PR63 1101 A4 BCF Q72MN60	IB01AAQ
PR63	63	2	2		PR63 1102 A4 BCF Q72MN60	IB02AAQ
PR63	63	3	3		PR63 1103 A4 BCF Q72MN60	IB03ABQ
PR63	63	4	4		PR63 1104 A4 BCF Q72MN60	IB04ABQ

CAM SWITCHES

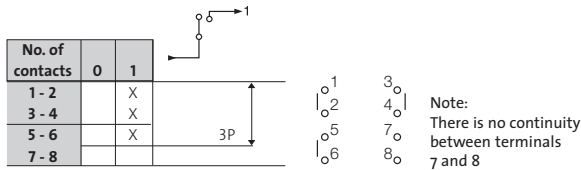
▶ ON/OFF “MAIN SWITCHES”

 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP65 standard - IP40 available upon request

Contact Configuration - 1103GN

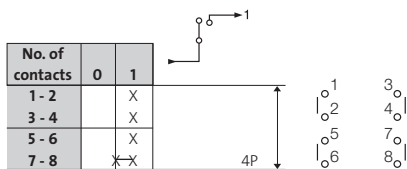


NS3EV493-IP65



TS3EV493-IP65













Contact Configuration - 1104GN



ZS3EV733-IP65



IS3EV733-IP65

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	3	3		PR12 1103 GN E J483PND51	NS3EV493-IP65
PR12	12	4	4		PR12 1104 GN E J483PND51	NS4EV493-IP65
PR17	16	3	3		PR17 1103 GN E J483PND51	SS3EV493-IP65
PR17	16	4	4		PR17 1104 GN E J483PND51	SS4EV493-IP65
PR21	20	3	3		PR21 1103 GN E J483PND51	TS3EV493-IP65
PR21	20	4	4		PR21 1104 GN E J483PND51	TS4EV493-IP65
PR26	25	3	3		PR26 1103 GN E J723MND51	ZS3EV733-IP65
PR26	25	4	4		PR26 1104 GN E J723MND51	ZS4EV733-IP65
PR40	50	3	3		PR40 1103 GN E J723MND61	HS3EV733-IP65
PR40	50	4	4		PR40 1104 GN E J723MND61	HS4EV733-IP65
PR63	63	3	3		PR63 1103 GN E J723MND61	IS3EV733-IP65
PR63	63	4	4		PR63 1104 GN E J723MND61	IS4EV733-IP65

CAM SWITCHES

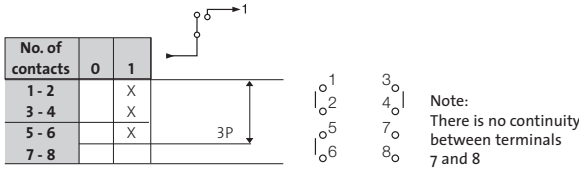
► ON/OFF “MAIN SWITCHES”

 Technical Info (p. 234)

IN ENCLOSURE

IP65 standard - IP40 available upon request

Contact Configuration - 1103GN

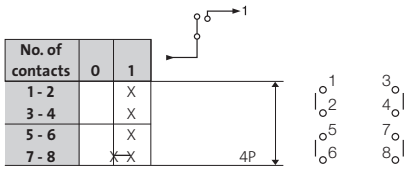


NS3XV483-IP65



SS3XV483-IP65













Contact Configuration - 1104GN



ZS3XV483-IP65



HS3BV733-IP65

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	3	3		PR12 1103 GN BC J48PND51	NS3XV483-IP65
PR12	12	4	4		PR12 1104 GN BC J48PND51	NS4XV483-IP65
PR17	16	3	3		PR17 1103 GN BC J48PND51	SS3XV483-IP65
PR17	16	4	4		PR17 1104 GN BC J48PND51	SS4XV483-IP65
PR21	20	3	3		PR21 1103 GN BC J48PND51	TS3XV483-IP65
PR21	20	4	4		PR21 1104 GN BC J48PND51	TS4XV483-IP65
PR26	25	3	3		PR26 1103 GN BC J48PND51	ZS3XV483-IP65
PR26	25	4	4		PR26 1104 GN BC J48PND51	ZS4XV483-IP65
PR40	50	3	3		PR40 1103 GN BCF J723MND61	HS3BV733-IP65
PR40	50	4	4		PR40 1104 GN BCF J723MND61	HS4BV733-IP65
PR63	63	3	3		PR63 1103 GN BCF J723MND61	IS3BV733-IP65
PR63	63	4	4		PR63 1104 GN BCF J723MND61	IS4BV733-IP65

CAM SWITCHES

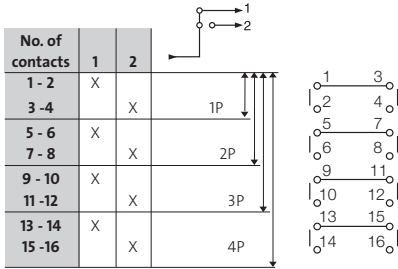
▶ CHANGEOVER SWITCHES - WITHOUT OFF

 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration



NC53DQ1









TC51DQ1



ZC52DQ7



HC52DQ7

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2251 D4 E Q48PN50	NC51DQ1
PR12	12	2	4		PR12 2252 D4 E Q48PN50	NC52DQ1
PR12	12	3	6		PR12 2253 D4 E Q48PN50	NC53DQ1
PR12	12	4	8		PR12 2254 D4 E Q48PN50	NC54DQ1
PR17	16	1	2		PR17 2251 D4 E Q48PN50	SC51DQ1
PR17	16	2	4		PR17 2252 D4 E Q48PN50	SC52DQ1
PR17	16	3	6		PR17 2253 D4 E Q48PN50	SC53DQ1
PR17	16	4	8		PR17 2254 D4 E Q48PN50	SC54DQ1
PR21	20	1	2		PR21 2251 D4 E Q48PN50	TC51DQ1
PR21	20	2	4		PR21 2252 D4 E Q48PN50	TC52DQ1
PR21	20	3	6		PR21 2253 D4 E Q48PN50	TC53DQ1
PR21	20	4	8		PR21 2254 D4 E Q48PN50	TC54DQ1
PR26	25	1	2		PR26 2251 D4 E Q72MN50	ZC51DQ7
PR26	25	2	4		PR26 2252 D4 E Q72MN50	ZC52DQ7
PR26	25	3	6		PR26 2253 D4 E Q72MN50	ZC53DQ7
PR26	25	4	8		PR26 2254 D4 E Q72MN50	ZC54DQ7
PR40	50	1	2		PR40 2251 D4 E Q72MN60	HC51DQ7
PR40	50	2	4		PR40 2252 D4 E Q72MN60	HC52DQ7
PR40	50	3	6		PR40 2253 D4 E Q72MN60	HC53DQ7
PR40	50	4	8		PR40 2254 D4 E Q72MN60	HC54DQ7
PR63	63	1	2		PR63 2251 D4 E Q72MN60	IC51DQ7
PR63	63	2	4		PR63 2252 D4 E Q72MN60	IC52DQ7
PR63	63	3	6		PR63 2253 D4 E Q72MN60	IC53DQ7
PR63	63	4	8		PR63 2254 D4 E Q72MN60	IC54DQ7

CAM SWITCHES

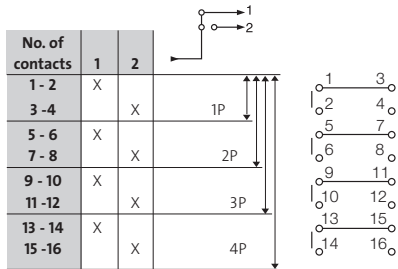
▶ CHANGEOVER SWITCHES - WITHOUT OFF

 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration



NC51DXQ









SC53DXQ



ZC52DXQ



IC52DBQ

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2251 D4 BCQ3	NC51DXQ
PR12	12	2	4		PR12 2252 D4 BCQ3	NC52DXQ
PR12	12	3	6		PR12 2253 D4 BCQ3	NC53DXQ
PR12	12	4	8		PR12 2254 D4 BCQ3	NC54DXQ
PR17	16	1	2		PR17 2251 D4 BCQ3	SC51DXQ
PR17	16	2	4		PR17 2252 D4 BCQ3	SC52DXQ
PR17	16	3	6		PR17 2253 D4 BCQ3	SC53DXQ
PR17	16	4	8		PR17 2254 D4 BCQ3	SC54DXQ
PR21	20	1	2		PR21 2251 D4 BCQ3	TC51DXQ
PR21	20	2	4		PR21 2252 D4 BCQ3	TC52DXQ
PR21	20	3	6		PR21 2253 D4 BCQ3	TC53DXQ
PR21	20	4	8		PR21 2254 D4 BCQ3	TC54DXQ
PR26	25	1	2		PR26 2251 D4 BCQ3	ZC51DXQ
PR26	25	2	4		PR26 2252 D4 BCQ3	ZC52DXQ
PR26	25	3	6		PR26 2253 D4 BCQ3	ZC53DXQ
PR26	25	4	8		PR26 2254 D4 BCQ3	ZC54DXQ
PR40	50	1	2		PR40 2251 D4 BCF Q72MN60	HC51DAQ
PR40	50	2	4		PR40 2252 D4 BCF Q72MN60	HC52DBQ
PR40	50	3	6		PR40 2253 D4 BCF Q72MN60	HC53DCQ
PR40	50	4	8		PR40 2254 D4 BCF Q72MN60	HC54DDQ
PR63	63	1	2		PR63 2251 D4 BCF Q72MN60	IC51DAQ
PR63	63	2	4		PR63 2252 D4 BCF Q72MN60	IC52DBQ
PR63	63	3	6		PR63 2253 D4 BCF Q72MN60	IC53DCQ
PR63	63	4	8		PR63 2254 D4 BCF Q72MN60	IC54DDQ

CAM SWITCHES

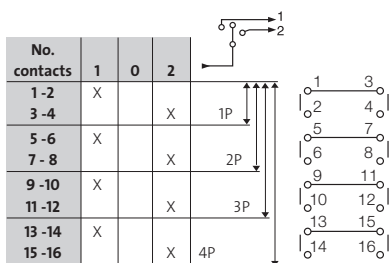
► CHANGEOVER SWITCHES - WITH OFF

 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration



NC02GQ1



























SC04GQ1



ZC02GQ7



HC03GQ7

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2201 C8 E Q48PN50	NC01GQ1
PR12	12	2	4		PR12 2202 C8 E Q48PN50	NC02GQ1
PR12	12	3	6		PR12 2203 C8 E Q48PN50	NC03GQ1
PR12	12	4	8		PR12 2204 C8 E Q48PN50	NC04GQ1
PR17	16	1	2		PR17 2201 C8 E Q48PN50	SC01GQ1
PR17	16	2	4		PR17 2202 C8 E Q48PN50	SC02GQ1
PR17	16	3	6		PR17 2203 C8 E Q48PN50	SC03GQ1
PR17	16	4	8		PR17 2204 C8 E Q48PN50	SC04GQ1
PR21	20	1	2		PR21 2201 C8 E Q48PN50	TC01GQ1
PR21	20	2	4		PR21 2202 C8 E Q48PN50	TC02GQ1
PR21	20	3	6		PR21 2203 C8 E Q48PN50	TC03GQ1
PR21	20	4	8		PR21 2204 C8 E Q48PN50	TC04GQ1
PR26	25	1	2		PR26 2201 C8 E Q72MN50	ZC01GQ7
PR26	25	2	4		PR26 2202 C8 E Q72MN50	ZC02GQ7
PR26	25	3	6		PR26 2203 C8 E Q72MN50	ZC03GQ7
PR26	25	4	8		PR26 2204 C8 E Q72MN50	ZC04GQ7
PR40	50	1	2		PR40 2201 C8 E Q72MN60	HC01GQ7
PR40	50	2	4		PR40 2202 C8 E Q72MN60	HC02GQ7
PR40	50	3	6		PR40 2203 C8 E Q72MN60	HC03GQ7
PR40	50	4	8		PR40 2204 C8 E Q72MN60	HC04GQ7
PR63	63	1	2		PR63 2201 C8 E Q72MN60	IC01GQ7
PR63	63	2	4		PR63 2202 C8 E Q72MN60	IC02GQ7
PR63	63	3	6		PR63 2203 C8 E Q72MN60	IC03GQ7
PR63	63	4	8		PR63 2204 C8 E Q72MN60	IC04GQ7

CAM SWITCHES

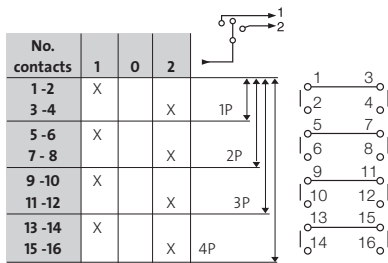
► CHANGEOVER SWITCHES - WITH OFF

 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration



NC02GXQ









TC03GXQ



ZC04GXQ



IC02GBQ

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2201 C8 BCQ3	NC01GXQ
PR12	12	2	4		PR12 2202 C8 BCQ3	NC02GXQ
PR12	12	3	6		PR12 2203 C8 BCQ3	NC03GXQ
PR12	12	4	8		PR12 2204 C8 BCQ3	NC04GXQ
PR17	16	1	2		PR17 2201 C8 BCQ3	SC01GXQ
PR17	16	2	4		PR17 2202 C8 BCQ3	SC02GXQ
PR17	16	3	6		PR17 2203 C8 BCQ3	SC03GXQ
PR17	16	4	8		PR17 2204 C8 BCQ3	SC04GXQ
PR21	20	1	2		PR21 2201 C8 BCQ3	TC01GXQ
PR21	20	2	4		PR21 2202 C8 BCQ3	TC02GXQ
PR21	20	3	6		PR21 2203 C8 BCQ3	TC03GXQ
PR21	20	4	8		PR21 2204 C8 BCQ3	TC04GXQ
PR26	25	1	2		PR26 2201 C8 BCQ3	ZC01GXQ
PR26	25	2	4		PR26 2202 C8 BCQ3	ZC02GXQ
PR26	25	3	6		PR26 2203 C8 BCQ3	ZC03GXQ
PR26	25	4	8		PR26 2204 C8 BCQ3	ZC04GXQ
PR40	50	1	2		PR40 2201 C8 BCF Q72MN60	HC01GAQ
PR40	50	2	4		PR40 2202 C8 BCF Q72MN60	HC02GBQ
PR40	50	3	6		PR40 2203 C8 BCF Q72MN60	HC03GCQ
PR40	50	4	8		PR40 2204 C8 BCF Q72MN60	HC04GDQ
PR63	63	1	2		PR63 2201 C8 BCF Q72MN60	IC01GAQ
PR63	63	2	4		PR63 2202 C8 BCF Q72MN60	IC02GBQ
PR63	63	3	6		PR63 2203 C8 BCF Q72MN60	IC03GCQ
PR63	63	4	8		PR63 2204 C8 BCF Q72MN60	IC04GDQ

CAM SWITCHES

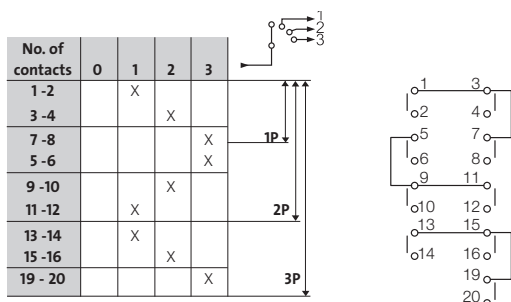
▶ THREE WAY SWITCHES - WITH OFF

 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration



ND03AQ1











SD03AQ1



ZD02AQ7



HD02AQ7

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	3		PR12 2301 A4 E Q48PN50	ND01AQ1
PR12	12	2	6		PR12 2302 A4 E Q48PN50	ND02AQ1
PR12	12	3	9		PR12 2303 A4 E Q48PN50	ND03AQ1
PR17	16	1	3		PR17 2301 A4 E Q48PN50	SD01AQ1
PR17	16	2	6		PR17 2302 A4 E Q48PN50	SD02AQ1
PR17	16	3	9		PR17 2303 A4 E Q48PN50	SD03AQ1
PR21	20	1	3		PR21 2301 A4 E Q48PN50	TD01AQ1
PR21	20	2	6		PR21 2302 A4 E Q48PN50	TD02AQ1
PR21	20	3	9		PR21 2303 A4 E Q48PN50	TD03AQ1
PR26	25	1	3		PR26 2301 A4 E Q72MN50	ZD01AQ7
PR26	25	2	6		PR26 2302 A4 E Q72MN50	ZD02AQ7
PR26	25	3	9		PR26 2303 A4 E Q72MN50	ZD03AQ7
PR40	50	1	3		PR40 2301 A4 E Q72MN60	HD01AQ7
PR40	50	2	6		PR40 2302 A4 E Q72MN60	HD02AQ7
PR40	50	3	9		PR40 2303 A4 E Q72MN60	HD03AQ7
PR63	63	1	3		PR63 2301 A4 E Q72MN60	ID01AQ7
PR63	63	2	6		PR63 2302 A4 E Q72MN60	ID02AQ7
PR63	63	3	9		PR63 2303 A4 E Q72MN60	ID03AQ7

CAM SWITCHES

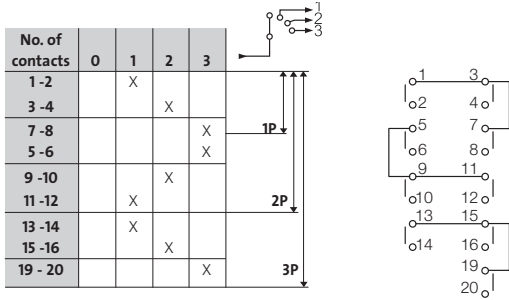
▶ THREE WAY SWITCHES - WITH OFF

 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration



ND02AXQ









TD01AXQ



ZD01AXQ



HD01ABQ

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	3		PR12 2301 A4 BCQ3	ND01AXQ
PR12	12	2	6		PR12 2302 A4 BCQ3	ND02AXQ
PR12	12	3	9		PR12 2303 A4 BCQ3	ND03AXQ
PR17	16	1	3		PR17 2301 A4 BCQ3	SD01AXQ
PR17	16	2	6		PR17 2302 A4 BCQ3	SD02AXQ
PR17	16	3	9		PR17 2303 A4 BCQ3	SD03AXQ
PR21	20	1	3		PR21 2301 A4 BCQ3	TD01AXQ
PR21	20	2	6		PR21 2302 A4 BCQ3	TD02AXQ
PR21	20	3	9		PR21 2303 A4 BCQ3	TD03AXQ
PR26	25	1	3		PR26 2301 A4 BCQ3	ZD01AXQ
PR26	25	2	6		PR26 2302 A4 BCQ3	ZD02AXQ
PR40	50	1	3		PR40 2301 A4 BCF Q72MN60	HD01ABQ
PR40	50	2	6		PR40 2302 A4 BCF Q72MN60	HD02ACQ
PR63	63	1	3		PR63 2301 A4 BCF Q72MN60	ID01ABQ
PR63	63	2	6		PR63 2302 A4 BCF Q72MN60	ID02ACQ

CAM SWITCHES

▶ 3 PHASE MOTOR SWITCH, FORWARD/OFF/REVERSE

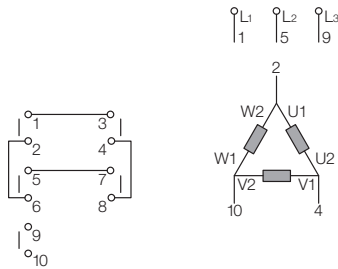
 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9151

No. of contacts	REV	0	FWD
1-2	X		
3-4			X
5-6			X
7-8	X		
9-10	X		X



NZ11GQ1









TZ11GQ1



ZZ11GQ7



IZ11GQ7

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	5		PR12 9151 C8 E Q48PN50	NZ11GQ1
PR17	16	5		PR17 9151 C8 E Q48PN50	SZ11GQ1
PR21	20	5		PR21 9151 C8 E Q48PN50	TZ11GQ1
PR26	25	5		PR26 9151 C8 E Q72MN50	ZZ11GQ7
PR40	50	5		PR40 9151 C8 E Q72MN60	HZ11GQ7
PR63	63	5		PR63 9151 C8 E Q72MN60	IZ11GQ7

CAM SWITCHES

▶ 3 PHASE MOTOR SWITCH, FORWARD/OFF/REVERSE

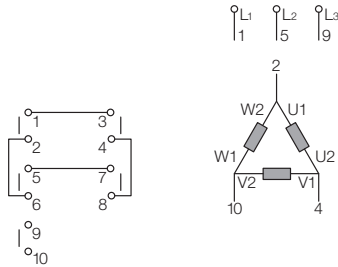
 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9151

No. of contacts	REV	0	FWD
1-2	X		X
3-4			X
5-6			X
7-8	X		
9-10	X		X



NZ11GXQ





SZ11GXQ



ZZ11GXQ



HZ11GCQ

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	5		PR12 9151 C8 BCQ3	NZ11GXQ
PR17	16	5		PR17 9151 C8 BCQ3	SZ11GXQ
PR21	20	5		PR21 9151 C8 BCQ3	TZ11GXQ
PR26	25	5		PR26 9151 C8 BCQ3	ZZ11GXQ
PR40	50	5		PR40 9151 C8 BCF Q72MN60	HZ11GCQ
PR63	63	5		PR63 9151 C8 BCF Q72MN60	IZ11GCQ

CAM SWITCHES

► 1 SPEED STARTER, FORWARD/OFF/REVERSE - 3 PHASE MOTOR

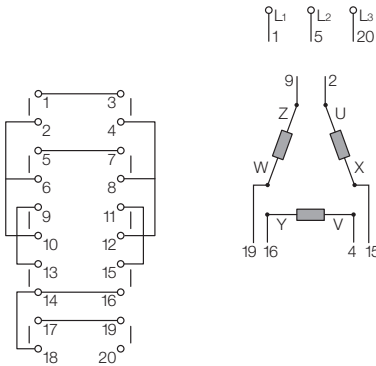
 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9153

No. of contacts	REV			FWD	
	Δ	Y	0	Y	Δ
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X	X		
15 - 16		X	X		
17 - 18	X			X	X
19 - 20	X	X		X	X



NZ13GQ1









TZ13GQ1



ZZ13GQ7



IZ13GQ7

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	10		PR12 9153 C8 E Q48PN50	NZ13GQ1
PR17	16	10		PR17 9153 C8 E Q48PN50	SZ13GQ1
PR21	20	10		PR21 9153 C8 E Q48PN50	TZ13GQ1
PR26	25	10		PR26 9153 C8 E Q72MN50	ZZ13GQ7
PR40	50	10		PR40 9153 C8 E Q72MN60	HZ13GQ7
PR63	63	10		PR63 9153 C8 E Q72MN60	IZ13GQ7

CAM SWITCHES

▶ 1 SPEED STARTER, FORWARD/OFF/REVERSE - 3 PHASE MOTOR

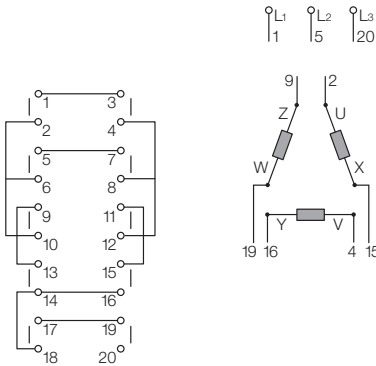
 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9153

No. of contacts	REV			FWD	
	Δ	Y	0	Y	Δ
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X		X	
15 - 16		X		X	
17 - 18	X				X
19 - 20	X	X		X	X






NZ13GXQ



SZ13GXQ



TZ13GXQ

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	10		PR12 9153 C8 BCQ3	NZ13GXQ
PR17	16	10		PR17 9153 C8 BCQ3	SZ13GXQ
PR21	20	10		PR21 9153 C8 BCQ3	TZ13GXQ

CAM SWITCHES

► 1 SPEED STARTER, 1WAY - 3 PHASE MOTOR

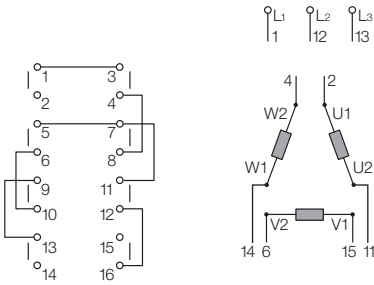
 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9551

No. of contacts	0	Y	Δ
1 - 2		X	X
3 - 4			X
5 - 6	X	X	
7 - 8	X	X	
9 - 10			X
11 - 12			X
13 - 14		X	X
15 - 16		X	X



NZ51BQ1









TZ51BQ1



ZZ51BQ7



HZ51BQ7

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9551 B4 E Q48PN50	NZ51BQ1
PR17	16	8		PR17 9551 B4 E Q48PN50	SZ51BQ1
PR21	20	8		PR21 9551 B4 E Q48PN50	TZ51BQ1
PR26	25	8		PR26 9551 B4 E Q72MN50	ZZ51BQ7
PR40	50	8		PR40 9551 B4 E Q72MN60	HZ51BQ7
PR63	63	8		PR63 9551 B4 E Q72MN60	IZ51BQ7

CAM SWITCHES

► 1 SPEED STARTER, 1WAY - 3 PHASE MOTOR

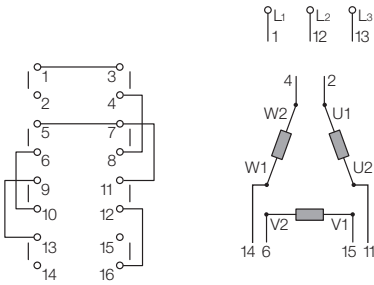
 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9551

No. of contacts	0	Y	Δ
1 - 2		X	X
3 - 4			X
5 - 6	X	X	
7 - 8	X	X	
9 - 10			X
11 - 12			X
13 - 14		X	X
15 - 16		X	X



NZ51BXQ









SZ51BXQ



ZZ51BXQ



HZ51BDQ

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9551 B4 BCQ3	NZ51BXQ
PR17	16	8		PR17 9551 B4 BCQ3	SZ51BXQ
PR21	20	8		PR21 9551 B4 BCQ3	TZ51BXQ
PR26	25	8		PR26 9551 B4 BCQ3	ZZ51BXQ
PR40	50	8		PR40 9551 B4 BCF Q72MN60	HZ51BDQ
PR63	63	8		PR63 9551 B4 BCF Q72MN60	IZ51BDQ

CAM SWITCHES

► 2 SPEEDS, 1 WAY - 3 PHASE DALHANDER MOTOR

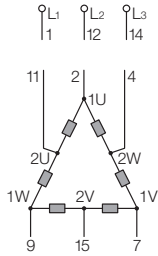
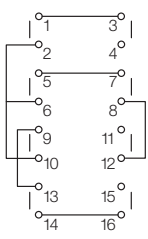
 Technical Info (p. 234)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9552

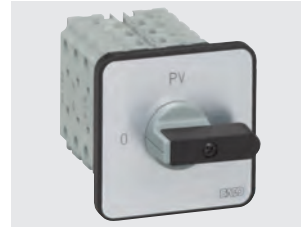
No. of contacts	LS	O	HS
1 - 2	X		
3 - 4			X
5 - 6			X
7 - 8	X		
9 - 10			X
11 - 12			X
13 - 14	X		
15 - 16			X



NZ52CQ1



SZ52BQ1





ZZ52BQ7



HZ52BQ7

No. of contacts	O	LS	HS
1 - 2		X	
3 - 4			X
5 - 6			X
7 - 8		X	
9 - 10			X
11 - 12			X
13 - 14		X	
15 - 16			X

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9552 B4 E Q48PN50	NZ52BQ1
PR17	16	8		PR17 9552 B4 E Q48PN50	SZ52BQ1
PR21	20	8		PR21 9552 B4 E Q48PN50	TZ52BQ1
PR26	25	8		PR26 9552 B4 E Q72MN50	ZZ52BQ7
PR40	50	8		PR40 9552 B4 E Q72MN60	HZ52BQ7
PR63	63	8		PR63 9552 B4 E Q72MN60	IZ52BQ7

PR12	12	8		PR12 9552 C4 E Q48PN50	NZ52CQ1
PR17	16	8		PR17 9552 C4 E Q48PN50	SZ52CQ1
PR21	20	8		PR21 9552 C4 E Q48PN50	TZ52CQ1
PR26	25	8		PR26 9552 C4 E Q72MN50	ZZ52CQ7
PR40	50	8		PR40 9552 C4 E Q72MN60	HZ52CQ7
PR63	63	8		PR63 9552 C4 E Q72MN60	IZ52CQ7

CAM SWITCHES

► 2 SPEEDS, 1 WAY - 3 PHASE DALHANDER MOTOR

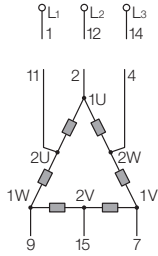
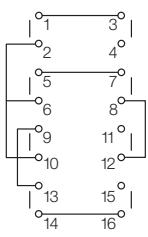
 Technical Info (p. 234)

IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9552

No. of contacts	LS	O	HS
1 - 2	X		
3 - 4			X
5 - 6			X
7 - 8	X		
9 - 10			X
11 - 12			X
13 - 14	X		
15 - 16			X



NZ52CXQ



TZ52BXQ





ZZ52BXQ



HZ52BDQ

No. of contacts	O	LS	HS
1 - 2		X	
3 - 4			X
5 - 6			X
7 - 8		X	
9 - 10			X
11 - 12			X
13 - 14		X	
15 - 16			X

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9552 B4 BCQ3	NZ52BXQ
PR17	16	8		PR17 9552 B4 BCQ3	SZ52BXQ
PR21	20	8		PR21 9552 B4 BCQ3	TZ52BXQ
PR26	25	8		PR26 9552 B4 BCQ3	ZZ52BXQ
PR40	50	8		PR40 9552 B4 BCF Q72MN60	HZ52BDQ
PR63	63	8		PR63 9552 B4 BCF Q72MN60	IZ52BDQ

PR12	12	8		PR12 9552 C4 BCQ3	NZ52CXQ
PR17	16	8		PR17 9552 C4 BCQ3	SZ52CXQ
PR21	20	8		PR21 9552 C4 BCQ3	TZ52CXQ
PR26	25	8		PR26 9552 C4 BCQ3	ZZ52CXQ
PR40	50	8		PR40 9552 C4 BCF Q72MN60	HZ52CDQ
PR63	63	8		PR63 9552 C4 BCF Q72MN60	IZ52CDQ

CAM SWITCHES

▶ AMMETER SWITCHES

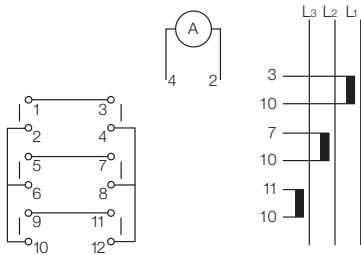
 Technical Info (p. 234)

3 CURRENT TRANSFORMERS WITH COMMON POINT

IP40 standard - IP65 available upon request

Contact Configuration - 8151



No. OF CONTACTS	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6		X	X	
7 - 8		X	X	
9 - 10	X		X	X
11 - 12			X	X



NY11AQ1



NY11AX80

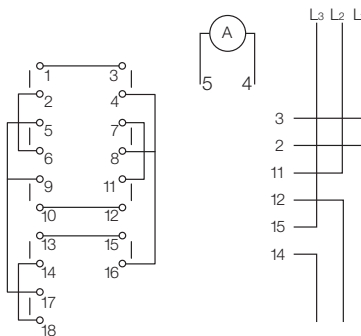
Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	6		PR12 8151 A4 E Q48PN50	NY11AQ1
PR12	12	Ø22MM SINGLE HOLE	6		PR12 8151 A4 E N48MD50	NY11AX80

WITHOUT CURRENT TRANSFORMER

IP40 standard - IP65 available upon request

Contact Configuration - 8164



No. of contacts	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6		X	X	
7 - 8		X	X	
9 - 10		X	X	
11 - 12		X	X	
13 - 14	X		X	X
15 - 16			X	X
17 - 18			X	X



NY14AQ1



NY14AX80

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	9		PR12 8164 A4 E Q48PN50	NY14AQ1
PR12	12	Ø22MM SINGLE HOLE	9		PR12 8164 A4 E N48MD50	NY14AX80

CAM SWITCHES

▶ AMMETER SWITCHES

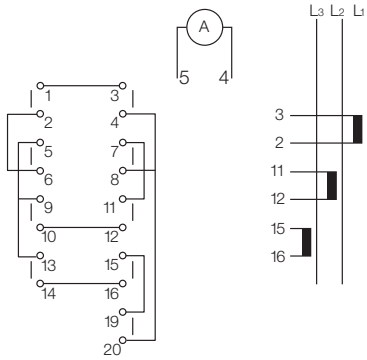
 Technical Info (p. 234)

WITHOUT COMMON POINT

IP40 standard - IP65 available upon request

Contact Configuration - 8157


No. OF CONTACTS	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6	X	X		
7 - 8		X	X	
9 - 10		X	X	
11 - 12		X	X	
13 - 14			X	X
15 - 16	X		X	X
19 - 20			X	X



NY17AQ1



NY17AX80

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	9		PR12 8157 A4 E Q48PN50	NY17AQ1
PR12	12	Ø22MM SINGLE HOLE	9		PR12 8157 A4 E N48MD50	NY17AX80

CAM SWITCHES

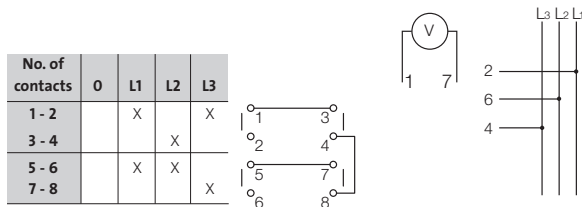
VOLTMETER SWITCHES

 Technical Info (p. 234)

WITHOUT NEUTRAL

IP40 standard - IP65 available upon request

Contact Configuration - 8351



NY31AQ1



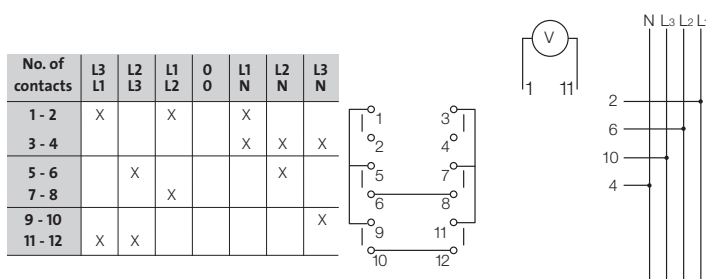
NY31AX80

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	4		PR12 8351 A4 E Q48PN50	NY31AQ1
PR12	12	Ø22MM SINGLE HOLE	4		PR12 8351 A4 E N48MD50	NY31AX80

WITH NEUTRAL

IP40 standard - IP65 available upon request

Contact Configuration - 8357



NY37GQ1



NY37GX80



NDF03

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	6		PR12 8357 C8 E Q48PN50	NY37GQ1
PR12	12	Ø22MM SINGLE HOLE	6		PR12 8357 C8 E N48MD50	NY37GX80
PR12	12	DIN-RAIL	6		PR12 8357 C8 E DF	NDF03

CAM SWITCHES

▶ BINARY CODE SWITCHES

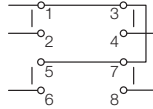
 Technical Info (p. 234)

0 TO 11


IP40 standard - IP65 available upon request

Contact Configuration - 6501

No. of contacts	Positions											
	0	1	2	3	4	5	6	7	8	9	10	11
1 - 2		X		X		X		X		X		X
3 - 4			X	X			X	X			X	X
5 - 6					X			X				
7 - 8									X			X



NR51UQ1

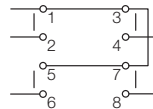
Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	4		PR12 6501 A1 E Q48PN50	NR51UQ1

1 TO 12


IP40 standard - IP65 available upon request

Contact Configuration - 6501

No. of contacts	Positions											
	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	X		X		X		X		X		X	
3 - 4		X	X			X	X			X	X	
5 - 6				X			X					
7 - 8								X				X



NR52UQ1

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	4		PR12 6502 A1 E Q48PN50	NR52UQ1

CAM SWITCHES

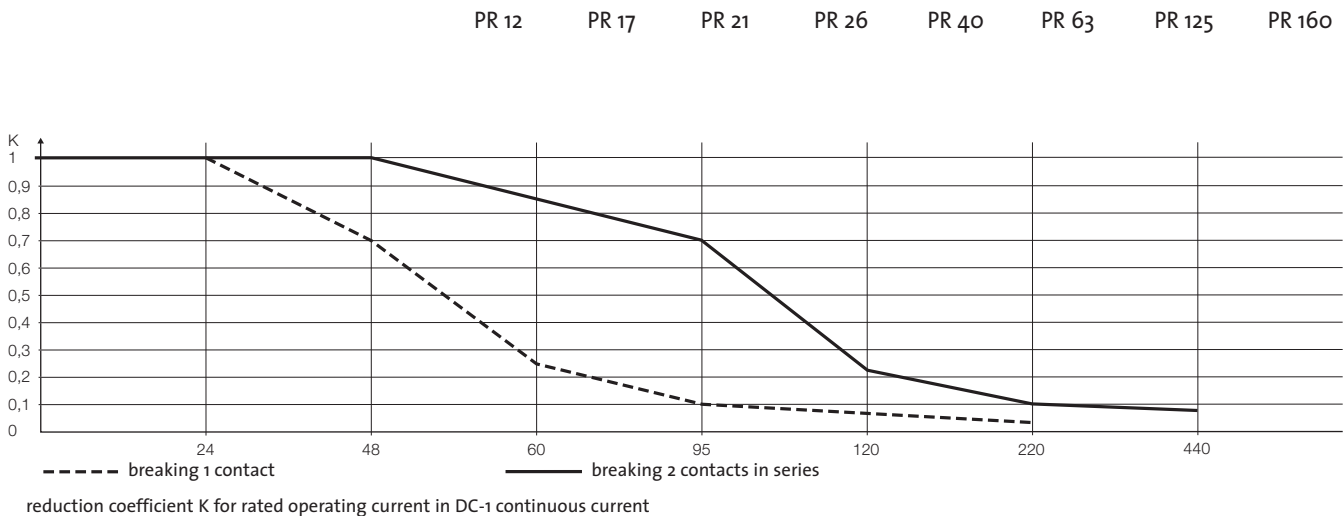
▶ TECHNICAL SPECIFICATIONS

UL/CSA Characteristics		PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
▶ UL/CSA									
1 PHASE	110/120 VAC	0.5 HP	1 HP	1.5 HP	2 HP	3 HP	5 HP	N/A	N/A
3 PHASE	110/120 VAC	1 HP	2 HP	3 HP	3 HP	7.5 HP	10 HP	N/A	N/A
	220/240 VAC	3 HP	5 HP	5 HP	7.5 HP	15 HP	20 HP	N/A	N/A
	440/480 VAC	5 HP	7.5 HP	10 HP	15 HP	30 HP	40 HP	N/A	N/A
	550/600 VAC	3 HP	10 HP	15 HP	20 HP	30 HP	40 HP	N/A	N/A
GENERAL USE (600 V) (MOTOR CONTROLLER)		12 A	16A	20 A	25 A	50 A	63 A	N/A	N/A
UL 508 RECOGNIZED		YES	YES	YES	YES	YES	YES	No	No
CSA CERTIFIED		YES	YES	YES	YES	YES	YES	No	No
IEC Characteristics		PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
▶ For thermal current AC-20 Ith I_c(A) (IEC 60 947-3)		20	25	32	40	63	80	200	250
▶ Rated operating current for AC-21 A I_e(A) (IEC 60 947-3)									
Switching of resistive loads including moderate overloads		16	20	25	32	50	80	160	200
▶ Rated operating current for AC-15 A I_e(A) at 230V AC (IEC 60 947-3)									
Control of electromagnetic loads		6	8	10	12	-	-	-	-
▶ Performance in AC 23 (kW) (IEC 60 947-3)									
Switching of motors or other highly inductive loads									
- 3 x 230 V		4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V		7.5	11	11	11	22	25	-	-
- 3 x 500 V		5.5	11	11	11	25	25	-	-
- 3 x 690 V		4	10	10	11	18.5	22	-	-
▶ Performance in AC 3 (IEC 60 947-3)									
Control of squirrel-cage motors starting and switching off motors while running									
- In kW									
- 3 x 230 V		3	4	4	5.5	11	15	-	-
- 3 x 400 V		4	7.5	7.5	11	18.5	22	-	-
- 3 x 500 V		5.5	7.5	7.5	11	18.5	22	-	-
- 3 x 690 V		3	7.5	7.5	11	18.5	22	-	-

CAM SWITCHES

► TECHNICAL SPECIFICATIONS

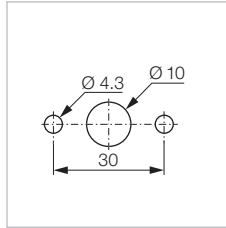
IEC Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 3 - cont.								
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage U_i (V)								
- Max. rated voltage $U_e(v)$ IEC	690	690	690	690	690	690	690	690
- CSA (Canada)	600	600	600	600	600	600	600	600
- UL (USA)	600	600	600	600	600	600	600	600
► Rated short time withstand current I_{cw} (A) for 1 sec								
	300	400	420	800	1000	1000	2000	2400
► Maximum wire size (mm²)								
- rigid	4	6/4 ⁽¹⁾	6/4 ⁽¹⁾	6	16	16	∅ 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	∅ 8 screw for eyelet	
► Maximum wire size (AWG)								
- rigid	10	8/10 ⁽¹⁾	8/10 ⁽¹⁾	8	6	6		
- flexible	14	12	12	8	6	6		
(1): These values correspond to terminals with jumpers								
► Mechanical durability 1,250,000 operations, maximum rate 150 operations per hour								
► Operating temperature limits - 20°C to + 70°C - 4°F to + 158°F (beyond these limits consult us)								
► Rated operating current in DC-1 low inductive loads (< 1 ms)								
Rated operating current I_e (A) 24 V DC	16	20	25	32	50	80	-	-
I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph								



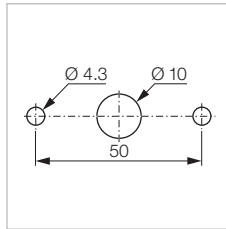
CAM SWITCHES

► MOUNTING

2 SCREWS - 30 OR 50 MM INTERVAL

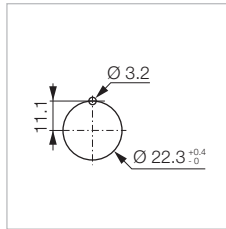


PR 12
PR 17
PR 21
PR 26



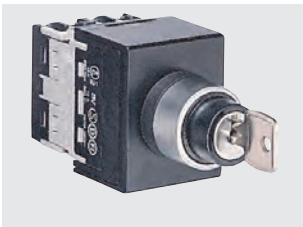
PR 40
PR 63

SINGLE HOLE MOUNTING Ø 22



For PR12 only

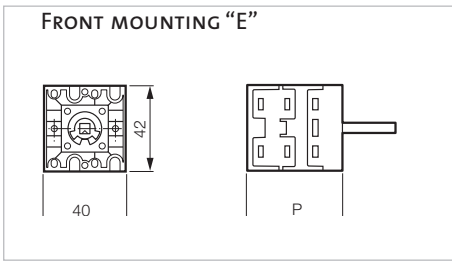
48 legend plate with handle
HANDLE
LEVER
KEY



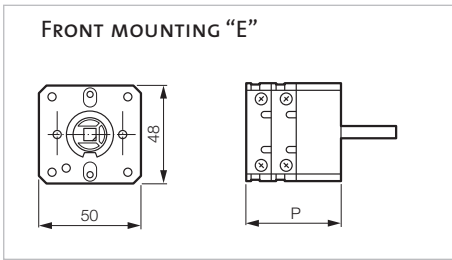
CAM SWITCHES

► DIMENSIONS

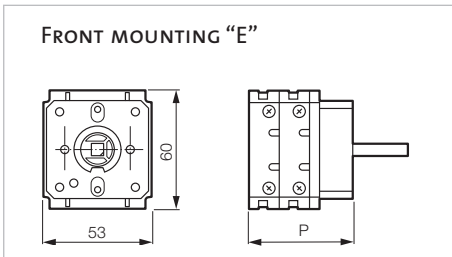
2 SCREW FRONT MOUNTING (E)



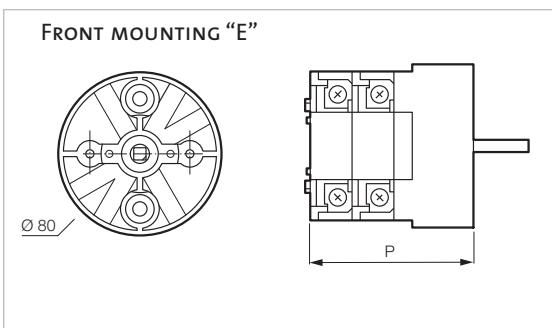
PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86



PR 17/21	No. of contacts	P*
	1-2	33
	3-4	45
	5-6	57
	7-8	69
	9-10	81
	11-12	93



PR 26	No. of contacts	P*
	1-2	36
	3-4	51
	5-6	66
	7-8	81
	9-10	96
	11-12	111



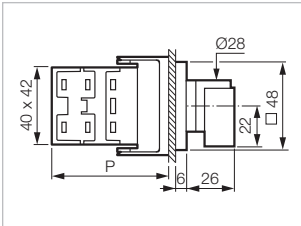
PR 40/63	No. of contacts	P*
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160

CAM SWITCHES

► DIMENSIONS

SINGLE HOLE MOUNTING Ø 22

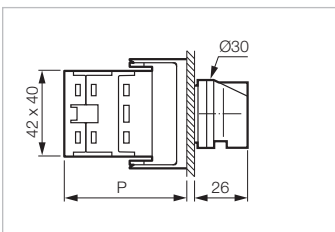
FRONT MOUNTING "E N48MD50"



**WITH HANDLE AND
LEGEND PLATE**

No. of contacts	P*
1-2	51
3-4	61
5-6	71
7-8	81
9-10	91
11-12	101

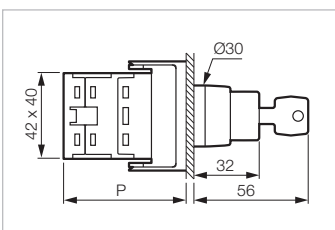
FRONT MOUNTING "E C21RA03"



**WITH HANDLE
OR LEVER**

No. of contacts	P*
1-2	51
3-4	61
5-6	71
7-8	81
9-10	91
11-12	101

FRONT MOUNTING "E C21RC00"



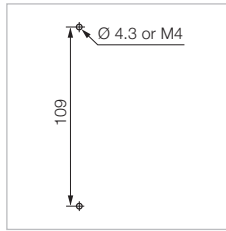
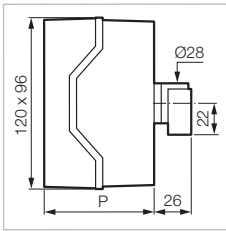
WITH KEY

No. of contacts	P*
1-2	51
3-4	61
5-6	71
7-8	81
9-10	91
11-12	101

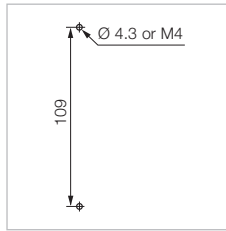
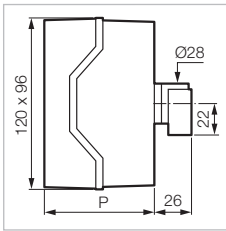
CAM SWITCHES

► DIMENSIONS

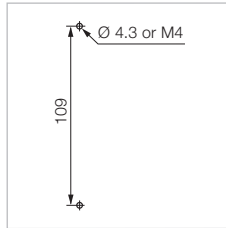
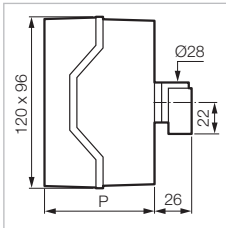
ENCLOSURES



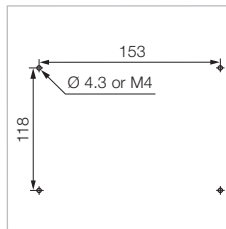
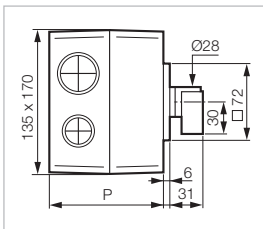
PR 12	No. of contacts	P*
	1-6	77
	7-10	101



PR 17/21	No. of contacts	P*
	1-6	77
	7-10	101



PR 26	No. of contacts	P*
	1-4	77
	5-8	101



PR 40/63	No. of contacts	P*
	1-4	107
	5-8	145

CAM SWITCHES - CUSTOM REQUEST FORM

▶ APPLICATION

- Load switching
 - resistive inductive
- Rated voltage AC/DC
- Rated current A

- Control of motors
 - Starting/Switching off a running motor
- Reverse direction of rotation
- Motor rating A/CV/kW/HP

▶ DIAGRAM

(Fill in the grid below using the appropriate symbols)

- Closed contact
- Closed contact, 2 positions without cut-off
- Overlapping: second contact closes before first contact opens (not possible with 30° switching angle)
- Impulse contact, closes momentarily when switching from one position to next
- Spring return

Contact Nos.	Position No.												Terminals connection + links	
	1	2	3	4	5	6	7	8	9	10	11	12		
1-2													0 1	3 0
3-4													0 2	4 0
5-6													0 5	7 0
7-8													0 6	8 0
9-10													0 9	11 0
11-12													0 10	12 0
13-14													0 13	15 0
15-16													0 14	16 0
17-18													0 17	19 0
19-20													0 18	20 0
21-22													0 21	23 0
23-24													0 22	24 0
25-26													0 25	27 0
27-28													0 26	28 0
29-30													0 29	31 0
31-32													0 30	32 0
33-34													0 33	35 0
35-36													0 34	36 0
37-38													0 37	39 0
39-40													0 38	40 0
41-42													0 41	43 0
43-44													0 42	44 0
45-46													0 45	47 0
47-48													0 46	48 0

▶ MOUNTING

- Front One-hole
- Rear DIN rail
- Enclosure

▶ STANDARD PRESENTATION

- Handle: small medium large
- Lever: small large
- Color: grey black red
- Selector switch style handle
- With key
 - Choice of key: 455 1424 A other.....

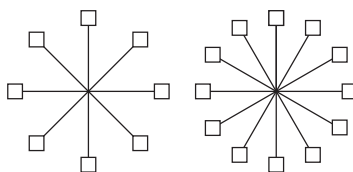
▶ LEGEND PLATE AND ENGRAVING

Choice of legend plate size (mm):
 48 64 72 96

Choice of legend plate color:
 Alu Black Red Yellow

- Engraving: (use opposite box to specify your engravings)
 - linear
 - polygonal
- Duty label (2 x 13 characters) :

▶ MARKING OF POSITIONS



▶ SWITCHING ANGLE

- 90° 60° 45° 30°
- (indicate positions in boxes)

Blocking-off between and position Tropicalized version
 One-way rotation: right left

YOUR DETAILS

Company:.....

 Name and surname:.....

 Address:.....

 E-mail :.....
 Tel:.....
 Fax:

COMMENTS

YOUR ENGRAVINGS

▶ PADLOCKABLE PRESENTATION

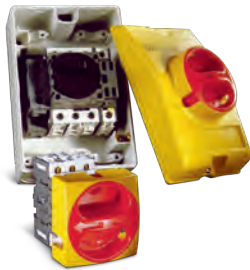
Color: yellow/red grey
 Size: 48 72 96

▶ OPTIONS

- Foolproof handle
- IP rating: IP 40 (standard) IP 55 IP 65
- Terminal covers
- Tropicalized version



Pushbuttons



Disconnects



Cam Switches



BACO[®]
CONTROLS

www.bacocontrols.com
8431 Loop Rd
Baldwinsville, NY 13027
Tel: 315.635.2500
Fax: 800.356.3981