PHŒNIX CONTACT

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Sensor/actuator box, application: Standard, connection method: QUICKON, 0.34 mm² ... 0.75 mm², number of slots: 6, number of positions: 4, slot assignment: single, status display: yes, pnp; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 5 m, shielding: no

Your advantages

☑ Safety in the field, thanks to molded housing and high degree of protection

☑ Flexible, distributed bundling of signals in one master cable

☑ Convenient: increased machine availability thanks to quick and easy diagnostics

☑ Innovative and time-saving assembly with insulation displacement connection

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918177706
Weight per Piece (excluding packing)	750.000 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

General

Rated voltage	24 V DC
Max. operating voltage U_{max}	30 V DC
Current carrying capacity per I/O signal	4 A
Current carrying capacity per slot	4 A
Total rated current	12 A
Number of positions	4

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Technical data

General

Number of slots	6
Flammability rating according to UL 94	V0
Sensor/actuator connection system	QUICKON
Note	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 60 °C
	-40 °C ... 90 °C (for fixed installation)
	-5 °C ... 80 °C (for flexible installation)

Local diagnostics function

Local diagnostics	Supply voltage Green LED
	Status display I/O Yellow LED

Master cable connection data

Connection method	Fixed connection
Length of cable	5 m

Conductor data

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	Class 2-6 // 0.34 mm²: 0.1 mm; 0.5 - 0.75 mm²: 0.15 mm
Wire insulation material	PVC / PE
Wire diameter including insulation	≤ 2.5 mm
Minimum external conductor diameter	4 mm
Maximum external conductor diameter	7.5 mm
Tightening torque, union nut	2.5 Nm
Wrench size, union nut	22 mm
Note on the frequency of connections	if the conductor is connected more than once, seal and cap may need to be replaced.
Conductor cross section flexible min.	0.34 mm²
Conductor cross section flexible max.	0.75 mm²
Conductor cross section AWG min.	22
Conductor cross section AWG max.	18

Insulation material

Housing material	PA

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Technical data

Insulation material

Material of the moulding mass	PUR
Contact material	Steel/copper
Contact surface material	Sn
Contact carrier material	PA 6.6

Standards and Regulations

Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

Cable

Cable type	PUR/PVC black
Cable type (abbreviation)	PUR
Cable abbreviation	LiYY11Y-HF
UL AWM style	20549
Conductor cross section	6x 0.34 mm² (Signal line)
	3x 0.75 mm² (power line)
AWG signal line	22
AWG power supply	18
Conductor structure signal line	19x 0.15 mm
Conductor structure, voltage supply	42x 0.15 mm
Core diameter including insulation	1.3 mm ±0.1 mm (Signal line)
	1.8 mm ±0.1 mm (power line)
Thickness, insulation	$\geq$ 0.15 mm (Inner sheath)
	$\geq$ 0.38 mm (Outer cable sheath)
Wire colors	brown, blue, green/yellow, white, green, yellow, gray, pink, red
Overall twist	Wires twisted in layers
External sheath, color	black RAL 9005
External cable diameter D	8 mm ±0.2 mm
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1500000
Bending radius	80 mm
Traversing path	2 m
Traversing rate	2 m/s
Cable weight	96.6 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Technical data

Cable

Conductor material	Bare Cu litz wires
Nominal voltage, cable	300 V
Test voltage, cable	2000 V
Special properties	Silicone-free
Flame resistance	DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 5.1	27250300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279219
eCl@ss 8.0	27279219
eCl@ss 9.0	27440108

ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585
ETIM 6.0	EC002585
ETIM 7.0	EC002585

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31251501

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN		24 V	
mm²/AWG/kcmil		22-16	

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN		24 V	
mm²/AWG/kcmil		22-16	

EAC		EAC-Zulassung

cULus Recognized	

Accessories

Accessories

Labeled terminal marker

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Accessories

Marker for terminal blocks - UC-TMF 16 CUS - 0824678

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm

Marker for terminal blocks - UC-TMF 16 YE CUS - 0824684

Marker for terminal blocks, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm

Pressure nut

Screw connection set - Q SET-11/4 COD1 SACB-Q - 1670743

QUICKON set for replacement purposes, consisting of pressure nut, cap, line seal and splice ring

Protective cap

Filler plugs - Q-PROT 9/11 - 1670235

Closing cap for Pg9/Pg11 to close unoccupied connections

Seal

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Accessories

Seal - SACB-D PG 13,5 (4,0-6,5) YE - 1680377

Rubber seal for Pg13.5 screw connection, for 4.0 mm ... 6.5 mm cable diameter

Seal - SACB-D PG 13,5 (6,5-9,5) BK - 1680380

Rubber seal for Pg13.5 screw connection, for 6.5 mm ... 9.5 mm cable diameter

Seal - SACB-D PG 13,5 (9,0-13,0) RD - 1680393

Rubber seal for Pg13.5 screw connection, for 9.0 mm ... 13.0 mm cable diameter

Socket spanner

Socket wrench - QSS 22 - 1670206

Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

Terminal marking

Marker for terminal blocks - UC-TMF 16 - 0819262

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm

Sensor/actuator box - SACB-6Q/4P-L- 5,0PUR - 1695252

Accessories

Marker for terminal blocks - UC-TMF 16 YE - 0819259

Marker for terminal blocks, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm