

Flush Silhouette Switches















LW Series







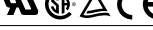


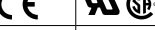
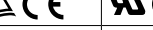
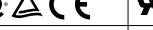
Switches & Pilot Lights





























Flush Silhouette Switches (Selection Guide)

Flush Silhouette Switches LW Series

Function	Illuminated Pushbuttons						
Category	Metal Bezel		Black Plastic Bezel				
	Round Flush	Round Extended	Round Flush	Round Extended	Round Flush with Guard	Square Flush	Square Flush with Guard
Momentary/Maintained							
Shape							
							
Part No.	LW6ML-1	LW6ML-2	LW6L-1	LW6L-2	LW6GL-1	LW7L-1	LW7GL-1
Page	6	6	7	7	7	8	8






Function	Pilot Lights					
Category	Metal Bezel		Black Plastic Bezel			
	Round Flush	Round Extended	Round Flush	Round Extended	Square Flush	Square Extended
Momentary/Maintained						
Shape						
						
Part No.	LW6MP-1	LW6MP-2	LW6P-1	LW6P-2	LW7P-1	LW7P-2
Page	11	11	11	11	11	11


Function	Pushbuttons						
Category	Metal Bezel		Black Plastic Bezel				
	Round Flush	Round Extended	Round Flush	Round Extended	Round Flush with Guard	Square Flush	Square Flush with Guard
Momentary/Maintained							
Shape							
							
Part No.	LW6MB-1	LW6MB-2	LW6B-1	LW6B-2	LW6GB-1	LW7B-1	LW7GB-1
Page	13	13	14	14	14	15	15

Function	Selector Switches					
Category	Metal Bezel		Black Plastic Bezel			
	Round		Round		Square	
	Knob	Lever	Knob	Lever	Knob	Lever
Shape						
						
Part No.	LW6MS	LW6MS-L	LW6S	LW6S-L	LW7S	LW7S-L
Page	18	18	19	19	20	20

Flush Silhouette Switches (Selection Guide)

Flush Silhouette Switches LW Series

Function	Illuminated Selector Switches			Key Selector Switches	
	Metal Bezel	Black Plastic Bezel		Metal Bezel	Black Plastic Metal
Category	Round		Square	Round	
	Knob			-	
Shape	 UL SF Δ CE CCC	 UL SF Δ CE CCC	 UL SF Δ CE CCC	 UL SF Δ CE CCC	 UL SF Δ CE CCC
Part No.	LW6MF	LW6F	LW7F	LW6MK	LW6K
Page	22	22	23	25	27

Function	Ring-illuminated Key Selector Switches	
	Metal Bezel	Black Bezel
Category	Round	
	Shape	 UL SF Δ CE CCC
Part No.	LW6MJ	LW6J
Page	30	33

Flush Silhouette Switches LW Series

Flush bezel projects only 2 mm from front of panel
 ø28 round and 28-mm square black plastic bezels. Round metal bezels are also available.

- ø25.3-mm round panel cut-out, 24.5-mm square panel cut-out
- Collective mounting is possible.
- Pushbuttons, pilot lights, illuminated pushbuttons, selector switches, key selector switches, and illuminated selector switches are available. Square pushbuttons also available with switchguards.
- Key selector switches with high-security lock mechanism. Over 60 different key variations available to choose from.
- Removable contact block with a locking lever enable easy installation even when mounted collectively.
- Gold (gold-clad silver) or silver contacts.
- Degree of protection: IP65 (IEC 60529)
- UL recognized and CSA certified. EN compliant.

Applicable Standards	Mark	File No. or Organization
UL508		UL recognized File No. E55996
CSA C22.2 No.14		CSA File No. LR 21451
EN60947-5-1		TÜV Rheinland
		EU Low Voltage Directive
GB14048.5		LW7/LW7G: 2013010305613905 LW6/LW6M/LW6G: 2013010305613904



Contact Ratings

Gold Contacts (switch base: blue)

Maximum Voltage	250V AC/DC	
Thermal Current	3A	
Operating Voltage	125V AC	30V DC
Operating Current (resistive load)	0.1A	0.1A
Contact Material	Gold-clad silver	

Minimum applicable load (reference value): 5V AC/DC, 1 mA
 (Applicable range is subject to the operating conditions and load.)

Silver Contacts (switch base: gray)

Operating Voltage		30V	125V	250V	
Operating Current	AC 50/60Hz	Resistive Load	–	3A 2A	
		Inductive Load	–	2A 1.5A	
	DC	Resistive Load	2A	0.4A	–
		Inductive Load	1A	0.2A	–
Thermal Current		5A			
Contact Material		Silver			

AC inductive load: PF = 0.6 to 0.7
 DC inductive load: L/R = 7 ms max.

Weight (Examples)

Weight (approx.)	25g (LW6MB-M1C3)	30g (LW6S-3LC3)
	22g (LW6B-M1C3)	36g (LW6MF-2C34)
	20g (LW6MP-14)	33g (LW6F-2C34)
	18g (LW6P-14)	58g (LW6MK-3C3A)
	29g (LW6ML-M1C34)	55g (LW6K-3C3A)
	26g (LW6L-M1C34)	60g (LW6MJ-2C34)
	33g (LW6MS-3LC3)	58g (LW6J-2C34)

Specifications

Operating Temperature	–25 to +60°C (no freezing) Illuminated units: –25 to +50°C	
Storage Temperature	–40 to +80°C	
Operating Humidity	45 to 85% RH (no condensation)	
Contact Resistance	50 mΩ maximum (initial value)	
Insulation Resistance	100 MΩ minimum (500V DC megger)	
Overvoltage Category (illumination unit)	II (Note 3)	
Impulse Withstand Voltage (illumination unit)	0.5kV	
Pollution Degree	2 (Note 3)	
Dielectric Strength	Switch Unit	Between live part and ground: 2,500V AC, 1 minute Between terminals of different poles: 2,500V AC, 1 minute Between terminals of the same poles: 1,000V AC, 1 minute
	Illumination Unit (Note 4)	Between live part and ground: 2,500V AC, 1 minute
Vibration Resistance	Damage limits: 30 Hz, 1.5 mm Operating extremes: 5 to 55 Hz, amplitude 0.5 mm	
Shock Resistance	Damage limits: 1,000 m/s ² (100G) Operating extremes: 100 m/s ² (10G)	
Mechanical Life (minimum operations)	Momentary:	1,000,000
	Maintained:	500,000
	Selector switches:	250,000
	Illuminated selector switches:	250,000
	Key selector switches:	100,000
Electrical Life (minimum operations)	Ring-illuminated key selector switches:	100,000 (Note 2)
	Momentary:	100,000 (Note 1)
	Maintained:	100,000 (Note 2)
	Selector switches:	100,000 (Note 2)
	Illuminated selector switches:	100,000 (Note 2)
Degree of Protection	IP65 (IEC 60529)	
	Terminal Style	
Terminal Style	Solder/tab terminal #110	
	PC board terminal Screw terminal	
Bezel Material	Metal bezel: diecast aluminum	
	Black plastic bezel: polyamide	

Note 1: Switching frequency 1,800 operations/h

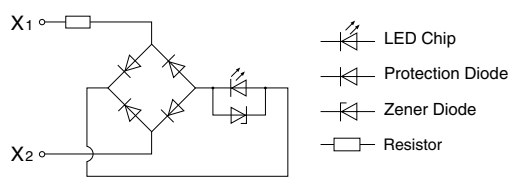




Note 2: Switching frequency 900 operations/h

Note 3: Ring-illuminated key selector switches only

Note 4: Except ring-illuminated key selector switches

Flush Silhouette Switches LW Series

LED Lamp Ratings (LSTD)

Part No.	LSTD-6②		LSTD-1②	LSTD-2②
Lamp Base	BA9S/13			
Rated Voltage	6V AC/DC		12V AC/DC	24V AC/DC
Voltage Range	6V AC/DC ±10%		12V AC/DC ±10%	24V AC/DC ±10%
Current Draw	AC	8 mA	11 mA	11 mA
	DC	A, R, W: 7 mA G, PW, S: 5.5 mA	10 mA	10 mA
Color Code ②	A (amber), G (green), PW (pure white), R (red), S (blue), W (white) Use PW lamp for yellow (Y) illumination.			
Lamp Base Color	Same as illumination color (pure white lamp base color is gray)			
Voltage Marking	Die stamped on the base			
Life (reference value)	Approx. 50,000 hours (The luminance is reduced to 50% the initial intensity when used on complete DC at 25°C.)			
Internal Circuit	 <p>  LED Chip  Protection Diode  Zener Diode  Resistor </p>			

- Use a pure white (PW) LED lamp for yellow (Y) lens.

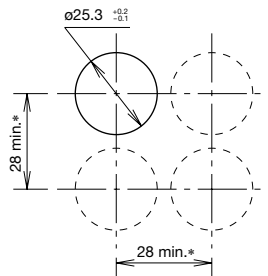
Illumination Ratings (Ring-illuminated Key Selector Switches)

Rated Voltage	Operating Voltage	Current	
		Full Illumination	Two-way Split Illumination
24V DC	24V DC ±10%	18 mA	9 mA

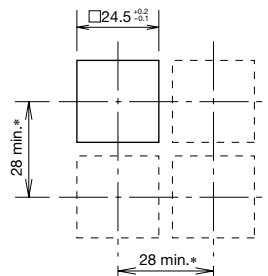
- The illumination part is UL-recognized and CSA-certified subject to use within in Class 2 circuit.
- The LED lamp cannot be replaced.

Mounting Hole Layout

Round



Square



Note: Determine mounting centers to ensure easy operation.

- * Pushbutton with switch guard: Vertical 56.5 mm, Horizontal 28 mm minimum
- * Lever operator type selector switches: Vertical 31 mm, Horizontal 28 mm minimum
- * Ring-illuminated key selector switches: Vertical 28 mm, Horizontal 33 mm minimum
- * Screw terminal: Vertical 40 mm, Horizontal 28 mm minimum

Ordering Information

Standard Units

- Specify a button or lens color code in the Part No.
- All illuminated units are supplied with an LED lamp.
- All standard units are UL recognized, CSA certified, and EN compliant (TÜV Rheinland).
- Collective mounting and PC board mount.

Flush Silhouette Switches LW series Illuminated Pushbuttons

Round Illuminated Pushbuttons with Metal Bezel

Package Quantity: 1

Shape	Lamp	Operation	Contact Material	Contact	Part No.		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal
Round Flush with Metal Bezel LW6ML-M1 LW6ML-A1  	LED	Momentary	Gold	SPDT	LW6ML-M1C1③②	LW6ML-M1C1③V②	-
				DPDT	LW6ML-M1C2③②	LW6ML-M1C2③V②	LW6ML-M1C2③M②
				3PDT	LW6ML-M1C3③②	LW6ML-M1C3③V②	-
			Silver	SPDT	LW6ML-M1C5③②	-	-
				DPDT	LW6ML-M1C6③②	-	LW6ML-M1C6③M②
				3PDT	LW6ML-M1C7③②	-	-
		DPDT	LW6ML-A1C2③②	LW6ML-A1C2③V②	LW6ML-A1C2③M②		
		3PDT	LW6ML-A1C3③②	LW6ML-A1C3③V②	-		
		Silver	SPDT	LW6ML-A1C5③②	-	-	
			DPDT	LW6ML-A1C6③②	-	LW6ML-A1C6③M②	
			3PDT	LW6ML-A1C7③②	-	-	
		Round Extended with Metal Bezel LW6ML-M2 LW6ML-A2  	LED	Momentary	Gold	SPDT	LW6ML-M2C1③②
DPDT	LW6ML-M2C2③②					LW6ML-M2C2③V②	LW6ML-M2C2③M②
3PDT	LW6ML-M2C3③②					LW6ML-M2C3③V②	-
Silver	SPDT				LW6ML-M2C5③②	-	-
	DPDT				LW6ML-M2C6③②	-	LW6ML-M2C6③M②
	3PDT				LW6ML-M2C7③②	-	-
DPDT	LW6ML-A2C2③②			LW6ML-A2C2③V②	LW6ML-A2C2③M②		
3PDT	LW6ML-A2C3③②			LW6ML-A2C3③V②	-		
Silver	SPDT			LW6ML-A2C5③②	-	-	
	DPDT			LW6ML-A2C6③②	-	LW6ML-A2C6③M②	
	3PDT			LW6ML-A2C7③②	-	-	

Color Code and Voltage Code

② Lens/LED Color Code	③ Operating Voltage Code
Specify a Lens/LED color code in place of ② in the Part No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	Specify an operating voltage code in place of ③ in the Part No. 2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC

- Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage. A pure white LED lamp is used for yellow illumination.
- For replacement LED lamps, see page 38.
- When using white lens unit (clear lens + white marking plate) with color codes A, G, R, or S, specify "W" before ② in the Part No. (without CCC marking)
 Example: LW6ML-M1C24W②

Flush Silhouette Switches LW Series Illuminated Pushbuttons

Round Illuminated Pushbuttons with Black Plastic Bezel

Package Quantity: 1

Shape	Lamp	Operation	Contact Material	Contact	Part No.		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal
Round Flush with Black Plastic Bezel LW6L-M1 LW6L-A1  	LED	Momentary	Gold	SPDT	LW6L-M1C1③②	LW6L-M1C1③V②	-
				DPDT	LW6L-M1C2③②	LW6L-M1C2③V②	LW6L-M1C2③M②
				3PDT	LW6L-M1C3③②	LW6L-M1C3③V②	-
		Silver	SPDT	LW6L-M1C5③②	-	-	
			DPDT	LW6L-M1C6③②	-	LW6L-M1C6③M②	
			3PDT	LW6L-M1C7③②	-	-	
	Maintained	Gold	SPDT	LW6L-A1C1③②	LW6L-A1C1③V②	-	
			DPDT	LW6L-A1C2③②	LW6L-A1C2③V②	LW6L-A1C2③M②	
			3PDT	LW6L-A1C3③②	LW6L-A1C3③V②	-	
		Silver	SPDT	LW6L-A1C5③②	-	-	
			DPDT	LW6L-A1C6③②	-	LW6L-A1C6③M②	
			3PDT	LW6L-A1C7③②	-	-	
Round Extended with Black Plastic Bezel LW6L-M2 LW6L-A2  	LED	Momentary	Gold	SPDT	LW6L-M2C1③②	LW6L-M2C1③V②	-
				DPDT	LW6L-M2C2③②	LW6L-M2C2③V②	LW6L-M2C2③M②
				3PDT	LW6L-M2C3③②	LW6L-M2C3③V②	-
		Silver	SPDT	LW6L-M2C5③②	-	-	
			DPDT	LW6L-M2C6③②	-	LW6L-M2C6③M②	
			3PDT	LW6L-M2C7③②	-	-	
	Maintained	Gold	SPDT	LW6L-A2C1③②	LW6L-A2C1③V②	-	
			DPDT	LW6L-A2C2③②	LW6L-A2C2③V②	LW6L-A2C2③M②	
			3PDT	LW6L-A2C3③②	LW6L-A2C3③V②	-	
		Silver	SPDT	LW6L-A2C5③②	-	-	
			DPDT	LW6L-A2C6③②	-	LW6L-A2C6③M②	
			3PDT	LW6L-A2C7③②	-	-	
Round Flush Guard Type with Black Plastic Bezel LW6GL-M1 LW6GL-A1  	LED	Momentary	Gold	SPDT	LW6GL-M1C1③②	LW6GL-M1C1③V②	-
				DPDT	LW6GL-M1C2③②	LW6GL-M1C2③V②	LW6GL-M1C2③M②
				3PDT	LW6GL-M1C3③②	LW6GL-M1C3③V②	-
		Silver	SPDT	LW6GL-M1C5③②	-	-	
			DPDT	LW6GL-M1C6③②	-	LW6GL-M1C6③M②	
			3PDT	LW6GL-M1C7③②	-	-	
	Maintained	Gold	SPDT	LW6GL-A1C1③②	LW6GL-A1C1③V②	-	
			DPDT	LW6GL-A1C2③②	LW6GL-A1C2③V②	LW6GL-A1C2③M②	
			3PDT	LW6GL-A1C3③②	LW6GL-A1C3③V②	-	
		Silver	SPDT	LW6GL-A1C5③②	-	-	
			DPDT	LW6GL-A1C6③②	-	LW6GL-A1C6③M②	
			3PDT	LW6GL-A1C7③②	-	-	

Color Code and Voltage Code





② Lens/LED Color Code	③ Operating Voltage Code
Specify a Lens/LED color code in place of ② in the Part No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	Specify an operating voltage code in place of ③ in the Part No. 2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC

- Every illuminated pushbutton contains an LED lamp (LSTD) of the specified color and voltage. A pure white LED lamp is used for yellow illumination.
- For replacement LED lamps, see page 38.
- When using white lens unit (clear lens + white marking plate) with color codes A, G, R, or S, specify "W" before ② in the Part No. (without CCC marking)
 Example: LW6ML-M1C24W②

Flush Silhouette Switches LW series Illuminated Pushbuttons

Square Illuminated Pushbuttons with Black Plastic Bezel

Package Quantity: 1

Shape	Lamp	Operation	Contact Material	Contact	Part No.		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal
Square Flush with Black Plastic Bezel LW7L-M1 LW7L-A1  	LED	Momentary	Gold	SPDT	LW7L-M1C1③②	LW7L-M1C1③V②	-
				DPDT	LW7L-M1C2③②	LW7L-M1C2③V②	LW7L-M1C2③M②
				3PDT	LW7L-M1C3③②	LW7L-M1C3③V②	-
		Silver	SPDT	LW7L-M1C5③②	-	-	
			DPDT	LW7L-M1C6③②	-	LW7L-M1C6③M②	
			3PDT	LW7L-M1C7③②	-	-	
	Maintained	Gold	SPDT	LW7L-A1C1③②	LW7L-A1C1③V②	-	
			DPDT	LW7L-A1C2③②	LW7L-A1C2③V②	LW7L-A1C2③M②	
			3PDT	LW7L-A1C3③②	LW7L-A1C3③V②	-	
		Silver	SPDT	LW7L-A1C5③②	-	-	
			DPDT	LW7L-A1C6③②	-	LW7L-A1C6③M②	
			3PDT	LW7L-A1C7③②	-	-	
Square Flush Guard with Black Plastic Bezel LW7GL-M1 LW7GL-A1  	LED	Momentary	Gold	SPDT	LW7GL-M1C1③②	LW7GL-M1C1③V②	-
				DPDT	LW7GL-M1C2③②	LW7GL-M1C2③V②	LW7GL-M1C2③M②
				3PDT	LW7GL-M1C3③②	LW7GL-M1C3③V②	-
		Silver	SPDT	LW7GL-M1C5③②	-	-	
			DPDT	LW7GL-M1C6③②	-	LW7GL-M1C6③M②	
			3PDT	LW7GL-M1C7③②	-	-	
	Maintained	Gold	SPDT	LW7GL-A1C1③②	LW7GL-A1C1③V②	-	
			DPDT	LW7GL-A1C2③②	LW7GL-A1C2③V②	LW7GL-A1C2③M②	
			3PDT	LW7GL-A1C3③②	LW7GL-A1C3③V②	-	
		Silver	SPDT	LW7GL-A1C5③②	-	-	
			DPDT	LW7GL-A1C6③②	-	LW7GL-A1C6③M②	
			3PDT	LW7GL-A1C7③②	-	-	

Color Code and Voltage Code

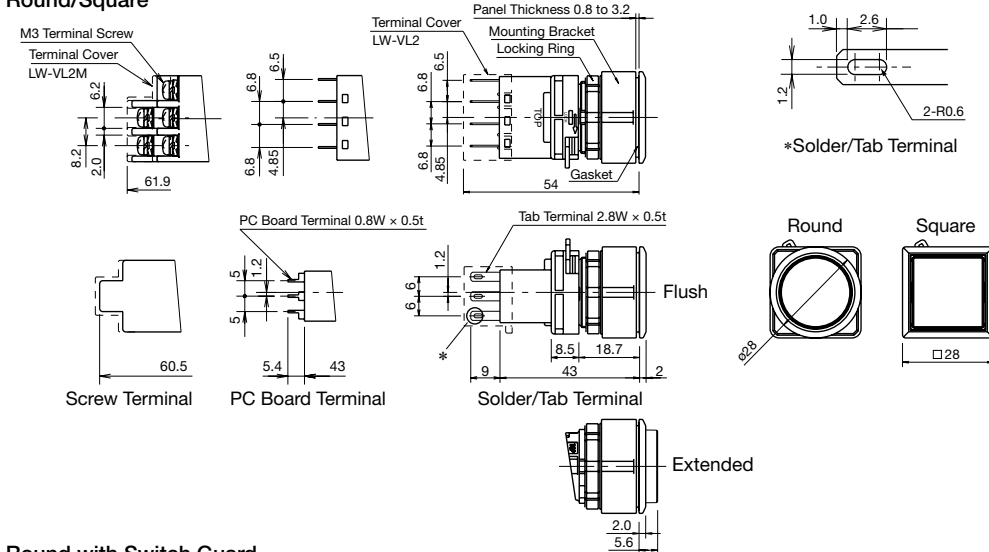
② Lens/LED Color Code	③ Operating Voltage Code
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 Example: LW6L-M1C24W②

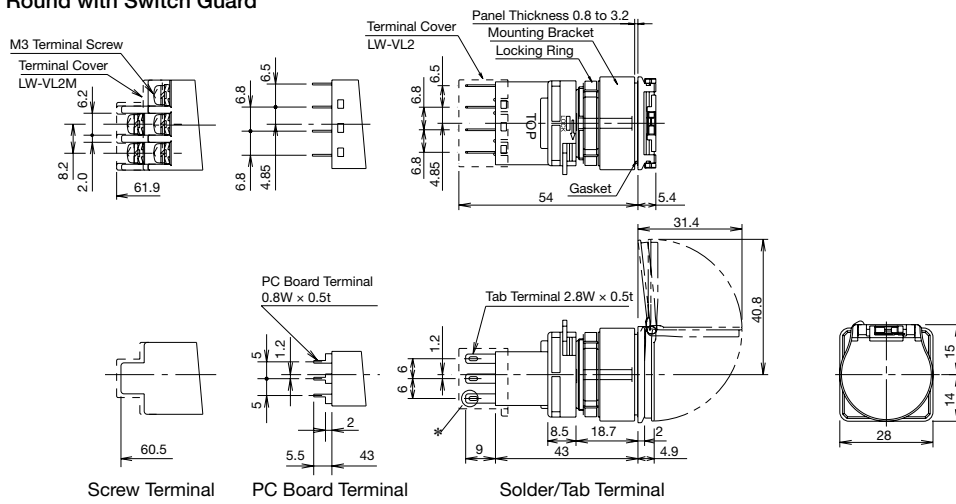
Flush Silhouette Switches LW series Illuminated Pushbuttons

Dimensions

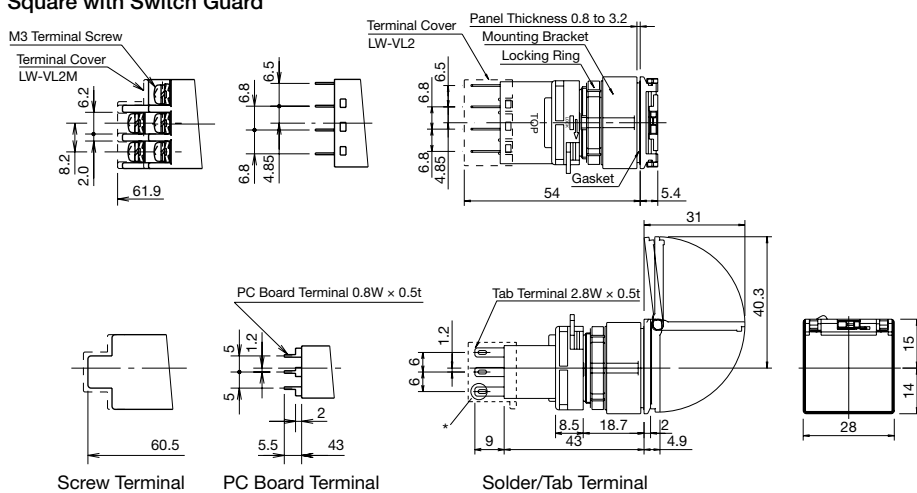
Round/Square



Round with Switch Guard

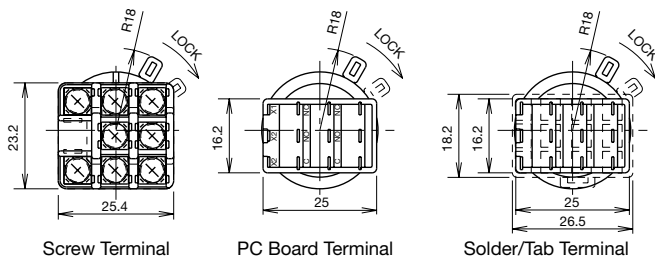


Square with Switch Guard

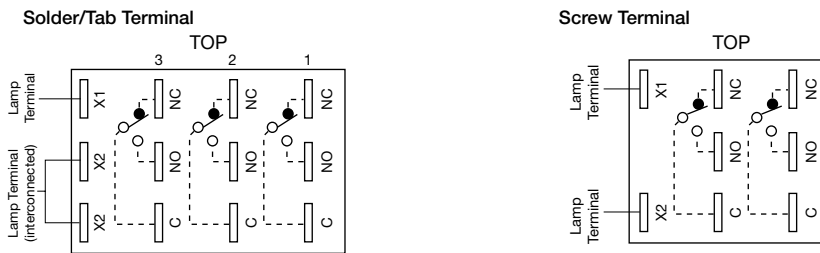


Flush Silhouette Switches LW series Illuminated Pushbuttons

Bottom View

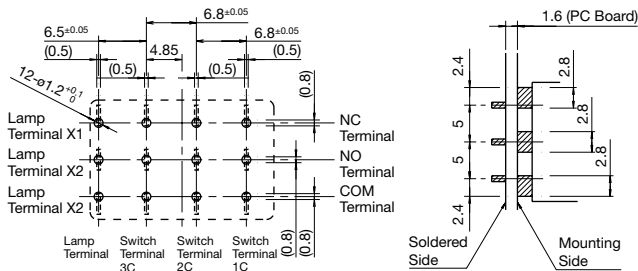


Terminal Arrangement (Bottom View)



Note: SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left.
Lamp terminals do not have any polarity.

PC Board Drilling Layout (Bottom View)















Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm.

Flush Silhouette Switches LW Series Pilot Lights

Round / Square Pilot Lights with Metal Bezel and Black Plastic Bezel

Package Quantity: 1

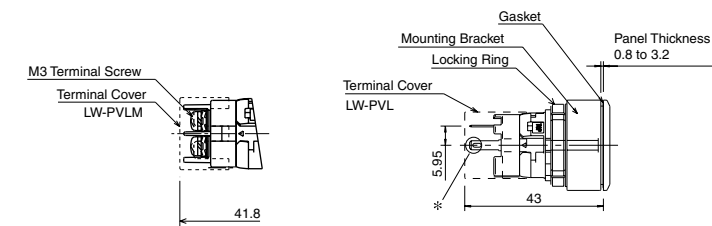
Shape	Lamp	Input Type	Part No.			② Illumination Color Code
			Solder/Tab Terminal (Unibody)	PC Board Terminal (w/Removable Contact Block)	Screw Terminal (Unibody)	
Round Flush with Metal Bezel LW6MP-1  	LED	6V AC/DC ±10%	LW6MP-12②	LW6MP-1C02V②	LW6MP-12M②	Specify a illumination color code in place of ② in the Part No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow
		12V AC/DC ±10%	LW6MP-13②	LW6MP-1C03V②	LW6MP-13M②	
		24V AC/DC ±10%	LW6MP-14②	LW6MP-1C04V②	LW6MP-14M②	
Round Extended with Metal Bezel LW6MP-2  	LED	6V AC/DC ±10%	LW6MP-22②	LW6MP-2C02V②	LW6MP-22M②	
		12V AC/DC ±10%	LW6MP-23②	LW6MP-2C03V②	LW6MP-23M②	
		24V AC/DC ±10%	LW6MP-24②	LW6MP-2C04V②	LW6MP-24M②	
Round Flush with Black Plastic Bezel LW6P-1  	LED	6V AC/DC ±10%	LW6P-12②	LW6P-1C02V②	LW6P-12M②	
		12V AC/DC ±10%	LW6P-13②	LW6P-1C03V②	LW6P-13M②	
		24V AC/DC ±10%	LW6P-14②	LW6P-1C04V②	LW6P-14M②	
Round Extended with Black Plastic Bezel LW6P-2  	LED	6V AC/DC ±10%	LW6P-22②	LW6P-2C02V②	LW6P-22M②	
		12V AC/DC ±10%	LW6P-23②	LW6P-2C03V②	LW6P-23M②	
		24V AC/DC ±10%	LW6P-24②	LW6P-2C04V②	LW6P-24M②	
Square Flush with Black Plastic Bezel LW7P-1  	LED	6V AC/DC ±10%	LW7P-12②	LW7P-1C02V②	LW7P-12M②	
		12V AC/DC ±10%	LW7P-13②	LW7P-1C03V②	LW7P-13M②	
		24V AC/DC ±10%	LW7P-14②	LW7P-1C04V②	LW7P-14M②	
Square Extended with Black Plastic Bezel LW7P-2  	LED	6V AC/DC ±10%	LW7P-22②	LW7P-2C02V②	LW7P-22M②	
		12V AC/DC ±10%	LW7P-23②	LW7P-2C03V②	LW7P-23M②	
		24V AC/DC ±10%	LW7P-24②	LW7P-2C04V②	LW7P-24M②	

- Every pilot light contains an LED lamp (LSTD) of the specified color and voltage. A pure white LED lamp is used for yellow illumination.
- For replacement LED lamps, see page 38.

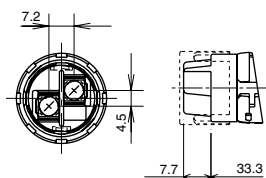
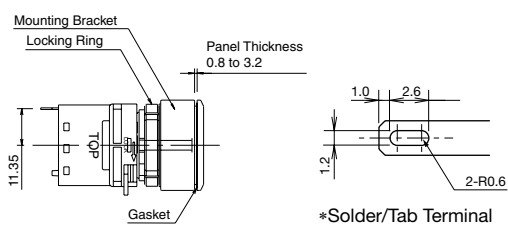
Flush Silhouette Switches LW series Pilot Lights

Dimensions

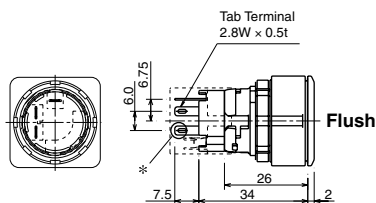
Unibody



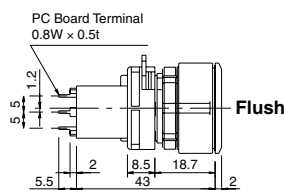
w/Removable Contact Block



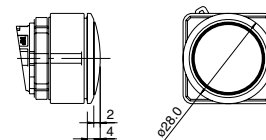
Screw Terminal



Solder/Tab Terminal

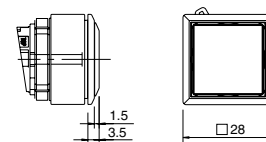


PC Board Terminal



Round (Extended)

Round

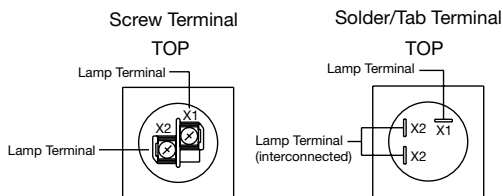


Square (Extended)

Square

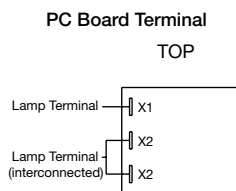
Terminal Arrangement (Bottom View)

Unibody



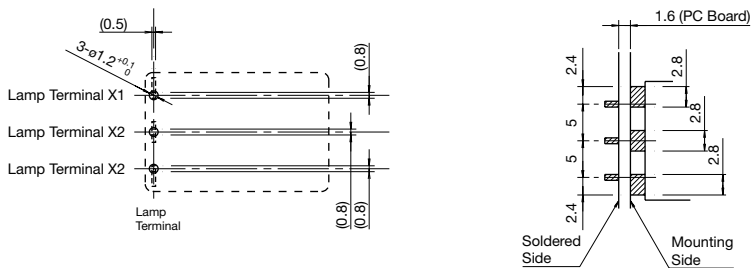
Lamp terminals do not have any polarity.

w/Removable Contact Block



Lamp terminals do not have any polarity.

PC Board Drilling Layout (Bottom View)







Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm.

Flush Silhouette Switches LW Series Pushbuttons

Round Pushbuttons with Metal Bezel

Package Quantity: 1

Shape	Operation	Contact Material	Contact	Part No.			① Button Color Code	
				Solder/Tab Terminal	PC Board Terminal	Screw Terminal		
Round Flush with Metal Bezel LW6MB-M1 LW6MB-A1  	Momentary	Gold	SPDT	LW6MB-M1C1①	LW6MB-M1C1V①	-	Specify a button color code in place of ① in the Part No. LA: amber LB: black LG: green LR: red LS: blue LW: white LY: yellow	
			DPDT	LW6MB-M1C2①	LW6MB-M1C2V①	LW6MB-M1C2M①		
			3PDT	LW6MB-M1C3①	LW6MB-M1C3V①	-		
		Silver	SPDT	LW6MB-M1C5①	-	-		
			DPDT	LW6MB-M1C6①	-	LW6MB-M1C6M①		
			3PDT	LW6MB-M1C7①	-	-		
	Maintained	Gold	SPDT	LW6MB-A1C1①	LW6MB-A1C1V①	-		
			DPDT	LW6MB-A1C2①	LW6MB-A1C2V①	LW6MB-A1C2M①		
			3PDT	LW6MB-A1C3①	LW6MB-A1C3V①	-		
		Silver	SPDT	LW6MB-A1C5①	-	-		
			DPDT	LW6MB-A1C6①	-	LW6MB-A1C6M①		
			3PDT	LW6MB-A1C7①	-	-		
	Round Extended with Metal Bezel LW6MB-M2 LW6MB-A2  	Momentary	Gold	SPDT	LW6MB-M2C1①	LW6MB-M2C1V①		-
				DPDT	LW6MB-M2C2①	LW6MB-M2C2V①		LW6MB-M2C2M①
3PDT				LW6MB-M2C3①	LW6MB-M2C3V①	-		
Silver			SPDT	LW6MB-M2C5①	-	-		
			DPDT	LW6MB-M2C6①	-	LW6MB-M2C6M①		
			3PDT	LW6MB-M2C7①	-	-		
Maintained		Gold	SPDT	LW6MB-A2C1①	LW6MB-A2C1V①	-		
			DPDT	LW6MB-A2C2①	LW6MB-A2C2V①	LW6MB-A2C2M①		
			3PDT	LW6MB-A2C3①	LW6MB-A2C3V①	-		
		Silver	SPDT	LW6MB-A2C5①	-	-		
			DPDT	LW6MB-A2C6①	-	LW6MB-A2C6M①		
			3PDT	LW6MB-A2C7①	-	-		

- Lens style buttons are used for illuminated pushbuttons.
- For details on marking plate and film, see page 39.

Flush Silhouette Switches LW series Pushbuttons

Round Pushbuttons with Black Plastic Bezel

Package Quantity: 1





Shape	Operation	Contact Material	Contact	Part No.			① Button Color Code
				Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Round Flush with Black Plastic Bezel LW6B-M1 LW6B-A1  	Momentary	Gold	SPDT	LW6B-M1C1①	LW6B-M1C1V①	-	Specify a button color code in place of ① in the Part No. LA: amber LB: black LG: green LR: red LS: blue LW: white LY: yellow
			DPDT	LW6B-M1C2①	LW6B-M1C2V①	LW6B-M1C2M①	
			3PDT	LW6B-M1C3①	LW6B-M1C3V①	-	
		Silver	SPDT	LW6B-M1C5①	-	-	
			DPDT	LW6B-M1C6①	-	LW6B-M1C6M①	
			3PDT	LW6B-M1C7①	-	-	
	Maintained	Gold	SPDT	LW6B-A1C1①	LW6B-A1C1V①	-	
			DPDT	LW6B-A1C2①	LW6B-A1C2V①	LW6B-A1C2M①	
			3PDT	LW6B-A1C3①	LW6B-A1C3V①	-	
		Silver	SPDT	LW6B-A1C5①	-	-	
			DPDT	LW6B-A1C6①	-	LW6B-A1C6M①	
			3PDT	LW6B-A1C7①	-	-	
Round Extended with Black Plastic Bezel LW6B-M2 LW6B-A2  	Momentary	Gold	SPDT	LW6B-M2C1①	LW6B-M2C1V①	-	
			DPDT	LW6B-M2C2①	LW6B-M2C2V①	LW6B-M2C2M①	
			3PDT	LW6B-M2C3①	LW6B-M2C3V①	-	
		Silver	SPDT	LW6B-M2C5①	-	-	
			DPDT	LW6B-M2C6①	-	LW6B-M2C6M①	
			3PDT	LW6B-M2C7①	-	-	
	Maintained	Gold	SPDT	LW6B-A2C1①	LW6B-A2C1V①	-	
			DPDT	LW6B-A2C2①	LW6B-A2C2V①	LW6B-A2C2M①	
			3PDT	LW6B-A2C3①	LW6B-A2C3V①	-	
		Silver	SPDT	LW6B-A2C5①	-	-	
			DPDT	LW6B-A2C6①	-	LW6B-A2C6M①	
			3PDT	LW6B-A2C7①	-	-	
Round Flush Guard Type with Black Plastic Bezel LW6GB-M1 LW6GB-A1  	Momentary	Gold	SPDT	LW6GB-M1C1①	LW6GB-M1C1V①	-	
			DPDT	LW6GB-M1C2①	LW6GB-M1C2V①	LW6GB-M1C2M①	
			3PDT	LW6GB-M1C3①	LW6GB-M1C3V①	-	
		Silver	SPDT	LW6GB-M1C5①	-	-	
			DPDT	LW6GB-M1C6①	-	LW6GB-M1C6M①	
			3PDT	LW6GB-M1C7①	-	-	
	Maintained	Gold	SPDT	LW6GB-A1C1①	LW6GB-A1C1V①	-	
			DPDT	LW6GB-A1C2①	LW6GB-A1C2V①	LW6GB-A1C2M①	
			3PDT	LW6GB-A1C3①	LW6GB-A1C3V①	-	
		Silver	SPDT	LW6GB-A1C5①	-	-	
			DPDT	LW6GB-A1C6①	-	LW6GB-A1C6M①	
			3PDT	LW6GB-A1C7①	-	-	

- Lens style buttons are used for illuminated pushbuttons.
- For details on marking plate and film, see page 39.

Flush Silhouette Switches LW series Pushbuttons

Square Pushbuttons with Black Plastic Bezel

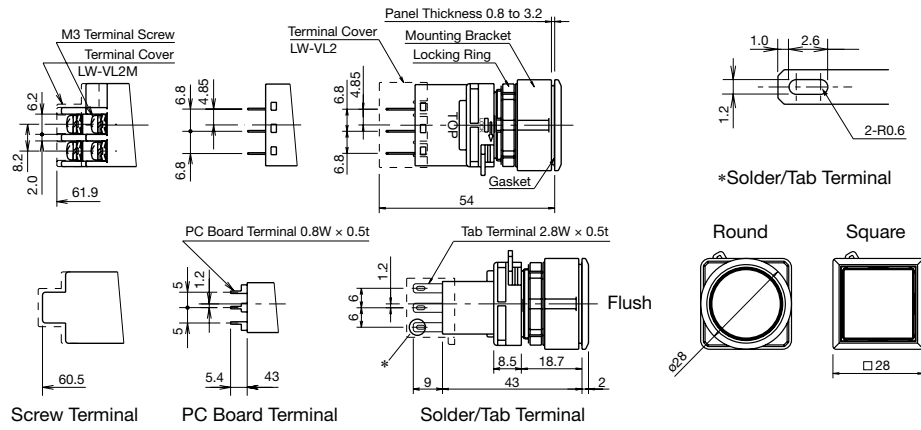
Package Quantity: 1

Shape	Operation	Contact Material	Contact	Part No.			① Button Color Code
				Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Square Flush with Black Plastic Bezel LW7B-M1 LW7B-A1  	Momentary	Gold	SPDT	LW7B-M1C1①	LW7B-M1C1V①	-	Specify a button color code in place of ① in the Part No. LA: amber LB: black LG: green LR: red LS: blue LW: white LY: yellow
			DPDT	LW7B-M1C2①	LW7B-M1C2V①	LW7B-M1C2M①	
			3PDT	LW7B-M1C3①	LW7B-M1C3V①	-	
		Silver	SPDT	LW7B-M1C5①	-	-	
			DPDT	LW7B-M1C6①	-	LW7B-M1C6M①	
			3PDT	LW7B-M1C7①	-	-	
	Maintained	Gold	SPDT	LW7B-A1C1①	LW7B-A1C1V①	-	
			DPDT	LW7B-A1C2①	LW7B-A1C2V①	LW7B-A1C2M①	
			3PDT	LW7B-A1C3①	LW7B-A1C3V①	-	
		Silver	SPDT	LW7B-A1C5①	-	-	
			DPDT	LW7B-A1C6①	-	LW7B-A1C6M①	
			3PDT	LW7B-A1C7①	-	-	
Square Flush Guard Type with Black Plastic Bezel LW7GB-M1 LW7GB-A1  	Momentary	Gold	SPDT	LW7GB-M1C1①	LW7GB-M1C1V①	-	
			DPDT	LW7GB-M1C2①	LW7GB-M1C2V①	LW7GB-M1C2M①	
			3PDT	LW7GB-M1C3①	LW7GB-M1C3V①	-	
		Silver	SPDT	LW7GB-M1C5①	-	-	
			DPDT	LW7GB-M1C6①	-	LW7GB-M1C6M①	
			3PDT	LW7GB-M1C7①	-	-	
	Maintained	Gold	SPDT	LW7GB-A1C1①	LW7GB-A1C1V①	-	
			DPDT	LW7GB-A1C2①	LW7GB-A1C2V①	LW7GB-A1C2M①	
			3PDT	LW7GB-A1C3①	LW7GB-A1C3V①	-	
		Silver	SPDT	LW7GB-A1C5①	-	-	
			DPDT	LW7GB-A1C6①	-	LW7GB-A1C6M①	
			3PDT	LW7GB-A1C7①	-	-	

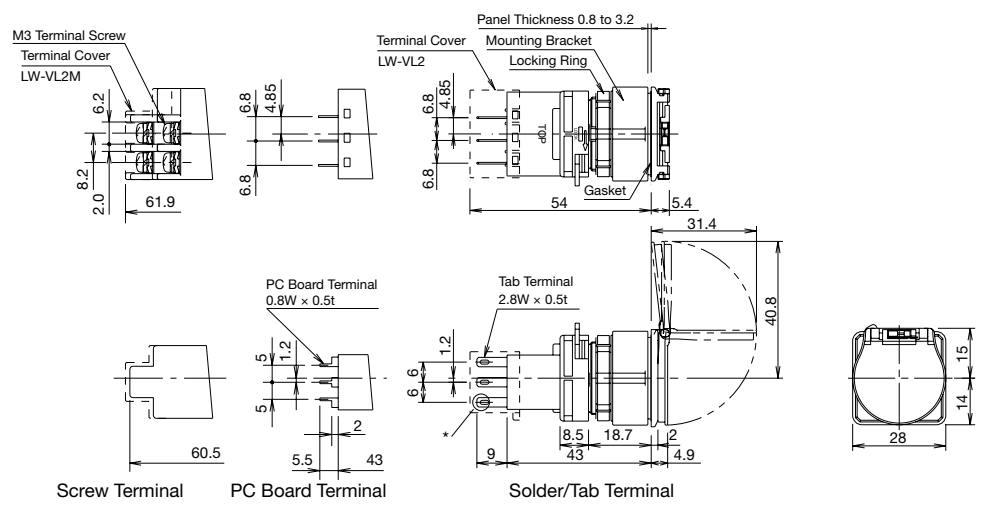
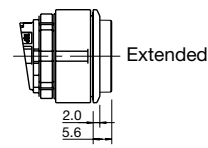
- Lenses for illuminated pushbuttons are used for flush silhouette pushbuttons.
- For details on marking plate and film, see page 39.

Flush Silhouette Switches LW series Pushbuttons

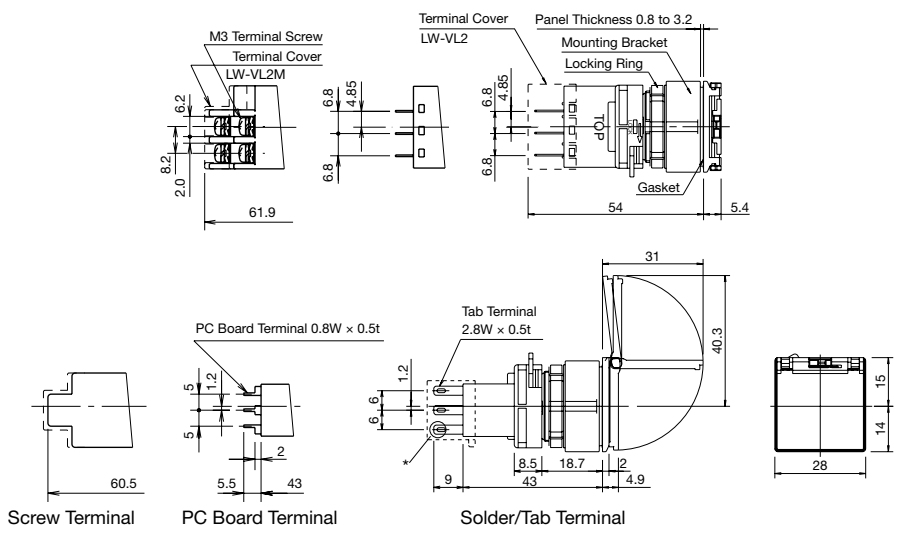
Dimensions Round/Square



Round Flush Guard



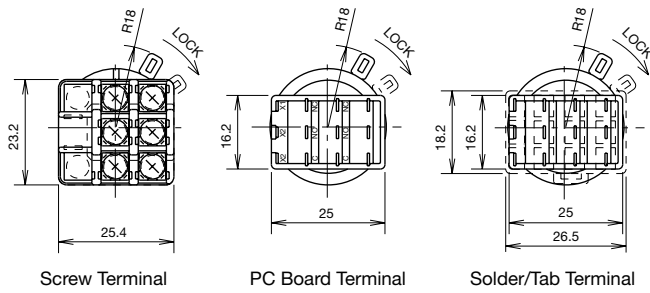
Square Flush Guard



All dimensions in mm.

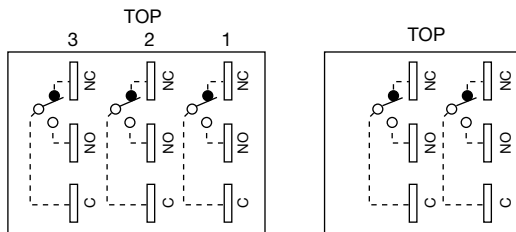
Flush Silhouette Switches LW series Pushbuttons

Bottom View



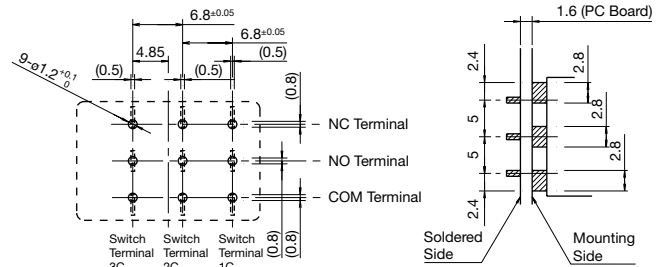
Terminal Arrangement (Bottom View)

Solder/Tab Terminal Screw Terminal



Note: SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left. Screw terminal is only available in DPDT configuration.

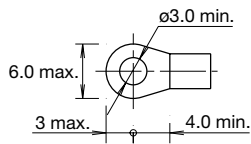
PC Board Drilling Layout (Bottom View)



Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

All dimensions in mm.













Applicable Crimping Terminal



Flush Silhouette Switches LW series Selector Switches

Selector Switches with Round Metal Bezel

Package Quantity: 1












Shape	Operation	Position	Contact Material	Contact	Part No.		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal
Round Metal Bezel LW6MS (Knob Operator)  	90° 2-position Maintained		Gold	SPDT	LW6MS-2C1	LW6MS-2C1V	—
				DPDT	LW6MS-2C2	LW6MS-2C2V	LW6MS-2C2M
				3PDT	LW6MS-2C3	LW6MS-2C3V	—
		Silver	SPDT	LW6MS-2C5	—	—	
			DPDT	LW6MS-2C6	—	LW6MS-2C6M	
			3PDT	LW6MS-2C7	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW6MS-21C1	LW6MS-21C1V	—
				DPDT	LW6MS-21C2	LW6MS-21C2V	LW6MS-21C2M
				3PDT	LW6MS-21C3	LW6MS-21C3V	—
		Silver	SPDT	LW6MS-21C5	—	—	
			DPDT	LW6MS-21C6	—	LW6MS-21C6M	
			3PDT	LW6MS-21C7	—	—	
	45° 3-position Maintained		Gold	DPDT	LW6MS-3C2	LW6MS-3C2V	LW6MS-3C2M
				3PDT	LW6MS-3C3	LW6MS-3C3V	—
				Silver	DPDT	LW6MS-3C6	—
		Silver	3PDT	LW6MS-3C7	—	—	
			Gold	DPDT	LW6MS-31C2	LW6MS-31C2V	LW6MS-31C2M
				3PDT	LW6MS-31C3	LW6MS-31C3V	—
	Silver	DPDT		LW6MS-31C6	—	LW6MS-31C6M	
		3PDT	LW6MS-31C7	—	—		
		45° 3-position Spring Return from Left		Gold	DPDT	LW6MS-32C2	LW6MS-32C2V
	3PDT				LW6MS-32C3	LW6MS-32C3V	—
	Silver				DPDT	LW6MS-32C6	—
	Silver		3PDT	LW6MS-32C7	—	—	
Gold			DPDT	LW6MS-33C2	LW6MS-33C2V	LW6MS-33C2M	
			3PDT	LW6MS-33C3	LW6MS-33C3V	—	
	Silver	DPDT	LW6MS-33C6	—	LW6MS-33C6M		
3PDT		LW6MS-33C7	—	—			
Round Metal Bezel LW6MS-*L (Lever Operator)  		90° 2-position Maintained		Gold	SPDT	LW6MS-2LC1	LW6MS-2LC1V
	DPDT				LW6MS-2LC2	LW6MS-2LC2V	LW6MS-2LC2M
	3PDT				LW6MS-2LC3	LW6MS-2LC3V	—
	Silver		SPDT	LW6MS-2LC5	—	—	
			DPDT	LW6MS-2LC6	—	LW6MS-2LC6M	
			3PDT	LW6MS-2LC7	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW6MS-21LC1	LW6MS-21LC1V	—
				DPDT	LW6MS-21LC2	LW6MS-21LC2V	LW6MS-21LC2M
				3PDT	LW6MS-21LC3	LW6MS-21LC3V	—
		Silver	SPDT	LW6MS-21LC5	—	—	
			DPDT	LW6MS-21LC6	—	LW6MS-21LC6M	
			3PDT	LW6MS-21LC7	—	—	
	45° 3-position Maintained		Gold	DPDT	LW6MS-3LC2	LW6MS-3LC2V	LW6MS-3LC2M
				3PDT	LW6MS-3LC3	LW6MS-3LC3V	—
				Silver	DPDT	LW6MS-3LC6	—
		Silver	3PDT	LW6MS-3LC7	—	—	
			Gold	DPDT	LW6MS-31LC2	LW6MS-31LC2V	LW6MS-31LC2M
				3PDT	LW6MS-31LC3	LW6MS-31LC3V	—
	Silver	DPDT		LW6MS-31LC6	—	LW6MS-31LC6M	
		3PDT	LW6MS-31LC7	—	—		
		45° 3-position Spring Return from Left		Gold	DPDT	LW6MS-32LC2	LW6MS-32LC2V
	3PDT				LW6MS-32LC3	LW6MS-32LC3V	—
	Silver				DPDT	LW6MS-32LC6	—
	Silver		3PDT	LW6MS-32LC7	—	—	
Gold			DPDT	LW6MS-33LC2	LW6MS-33LC2V	LW6MS-33LC2M	
			3PDT	LW6MS-33LC3	LW6MS-33LC3V	—	
	Silver	DPDT	LW6MS-33LC6	—	LW6MS-33LC6M		
3PDT		LW6MS-33LC7	—	—			

• For contact operation and dimensions, see page 21.

Flush Silhouette Switches LW series Selector Switches

Selector Switches with Round Black Plastic Bezel

Package Quantity: 1













Shape	Operation	Position	Contact Material	Contact	Part No.			
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Round Black Plastic Bezel LW6S (Knob Operator)  	90° 2-position Maintained		Gold	SPDT	LW6S-2C1	LW6S-2C1V	—	
				DPDT	LW6S-2C2	LW6S-2C2V	LW6S-2C2M	
				3PDT	LW6S-2C3	LW6S-2C3V	—	
			Silver	SPDT	LW6S-2C5	—	—	
				DPDT	LW6S-2C6	—	LW6S-2C6M	
				3PDT	LW6S-2C7	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW6S-21C1	LW6S-21C1V	—	
				DPDT	LW6S-21C2	LW6S-21C2V	LW6S-21C2M	
				3PDT	LW6S-21C3	LW6S-21C3V	—	
			Silver	SPDT	LW6S-21C5	—	—	
				DPDT	LW6S-21C6	—	LW6S-21C6M	
				3PDT	LW6S-21C7	—	—	
	45° 3-position Maintained		Gold	DPDT	LW6S-3C2	LW6S-3C2V	LW6S-3C2M	
				3PDT	LW6S-3C3	LW6S-3C3V	—	
				Silver	DPDT	LW6S-3C6	—	LW6S-3C6M
			Silver	3PDT	LW6S-3C7	—	—	
				Gold	DPDT	LW6S-31C2	LW6S-31C2V	LW6S-31C2M
					3PDT	LW6S-31C3	LW6S-31C3V	—
	Silver	DPDT	LW6S-31C6		—	LW6S-31C6M		
		3PDT	LW6S-31C7	—	—			
		45° 3-position Spring Return from Right		Gold	DPDT	LW6S-32C2	LW6S-32C2V	LW6S-32C2M
	3PDT				LW6S-32C3	LW6S-32C3V	—	
	Silver				DPDT	LW6S-32C6	—	LW6S-32C6M
	Silver			3PDT	LW6S-32C7	—	—	
Gold				DPDT	LW6S-33C2	LW6S-33C2V	LW6S-33C2M	
				3PDT	LW6S-33C3	LW6S-33C3V	—	
	Silver	DPDT	LW6S-33C6	—	LW6S-33C6M			
3PDT		LW6S-33C7	—	—				
45° 3-position Spring Return Two-way			Gold	DPDT	LW6S-33C2	LW6S-33C2V	LW6S-33C2M	
	3PDT			LW6S-33C3	LW6S-33C3V	—		
	Silver			DPDT	LW6S-33C6	—	LW6S-33C6M	
	Silver		3PDT	LW6S-33C7	—	—		
			Gold	SPDT	LW6S-2LC1	LW6S-2LC1V	—	
				DPDT	LW6S-2LC2	LW6S-2LC2V	LW6S-2LC2M	
3PDT	LW6S-2LC3	LW6S-2LC3V		—				
Silver	SPDT	LW6S-2LC5	—	—				
	DPDT	LW6S-2LC6	—	LW6S-2LC6M				
	3PDT	LW6S-2LC7	—	—				
90° 2-position Spring Return from Right		Gold	SPDT	LW6S-21LC1	LW6S-21LC1V	—		
			DPDT	LW6S-21LC2	LW6S-21LC2V	LW6S-21LC2M		
			3PDT	LW6S-21LC3	LW6S-21LC3V	—		
		Silver	SPDT	LW6S-21LC5	—	—		
			DPDT	LW6S-21LC6	—	LW6S-21LC6M		
			3PDT	LW6S-21LC7	—	—		
45° 3-position Maintained		Gold	DPDT	LW6S-3LC2	LW6S-3LC2V	LW6S-3LC2M		
			3PDT	LW6S-3LC3	LW6S-3LC3V	—		
			Silver	DPDT	LW6S-3LC6	—	LW6S-3LC6M	
		Silver	3PDT	LW6S-3LC7	—	—		
			Gold	DPDT	LW6S-31LC2	LW6S-31LC2V	LW6S-31LC2M	
				3PDT	LW6S-31LC3	LW6S-31LC3V	—	
Silver	DPDT	LW6S-31LC6		—	LW6S-31LC6M			
	3PDT	LW6S-31LC7	—	—				
	45° 3-position Spring Return from Left		Gold	DPDT	LW6S-32LC2	LW6S-32LC2V	LW6S-32LC2M	
3PDT				LW6S-32LC3	LW6S-32LC3V	—		
Silver				DPDT	LW6S-32LC6	—	LW6S-32LC6M	
Silver			3PDT	LW6S-32LC7	—	—		
			Gold	DPDT	LW6S-33LC2	LW6S-33LC2V	LW6S-33LC2M	
				3PDT	LW6S-33LC3	LW6S-33LC3V	—	
Silver	DPDT	LW6S-33LC6		—	LW6S-33LC6M			
	3PDT	LW6S-33LC7	—	—				
	45° 3-position Spring Return Two-way		Gold	DPDT	LW6S-33LC2	LW6S-33LC2V	LW6S-33LC2M	
3PDT				LW6S-33LC3	LW6S-33LC3V	—		
Silver				DPDT	LW6S-33LC6	—	LW6S-33LC6M	
Silver			3PDT	LW6S-33LC7	—	—		

• For contact operation and dimensions, see page 21.

Flush Silhouette Switches LW series Selector Switches

Selector Switches with Square Black Plastic Bezel


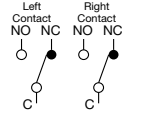
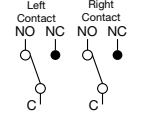

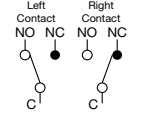
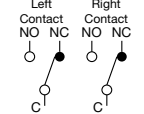
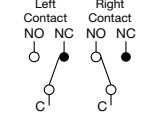
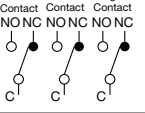
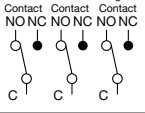
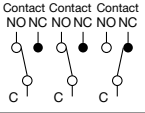
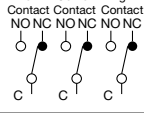
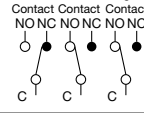
Package Quantity: 1

Shape	Operation	Position	Contact Material	Contact	Part No.			
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Square Black Plastic Bezel LW7S (Knob Operator)  	90° 2-position Maintained		Gold	SPDT	LW7S-2C1	LW7S-2C1V	—	
				DPDT	LW7S-2C2	LW7S-2C2V	LW7S-2C2M	
				3PDT	LW7S-2C3	LW7S-2C3V	—	
			Silver	SPDT	LW7S-2C5	—	—	
				DPDT	LW7S-2C6	—	LW7S-2C6M	
				3PDT	LW7S-2C7	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW7S-21C1	LW7S-21C1V	—	
				DPDT	LW7S-21C2	LW7S-21C2V	LW7S-21C2M	
				3PDT	LW7S-21C3	LW7S-21C3V	—	
			Silver	SPDT	LW7S-21C5	—	—	
				DPDT	LW7S-21C6	—	LW7S-21C6M	
				3PDT	LW7S-21C7	—	—	
	45° 3-position Maintained		Gold	DPDT	LW7S-3C2	LW7S-3C2V	LW7S-3C2M	
				3PDT	LW7S-3C3	LW7S-3C3V	—	
				Silver	DPDT	LW7S-3C6	—	LW7S-3C6M
			Silver	3PDT	LW7S-3C7	—	—	
				Gold	DPDT	LW7S-31C2	LW7S-31C2V	LW7S-31C2M
					3PDT	LW7S-31C3	LW7S-31C3V	—
	Silver	DPDT	LW7S-31C6		—	LW7S-31C6M		
		3PDT	LW7S-31C7	—	—			
		45° 3-position Spring Return from Left		Gold	DPDT	LW7S-32C2	LW7S-32C2V	LW7S-32C2M
	3PDT				LW7S-32C3	LW7S-32C3V	—	
	Silver				DPDT	LW7S-32C6	—	LW7S-32C6M
	Silver			3PDT	LW7S-32C7	—	—	
Gold				DPDT	LW7S-33C2	LW7S-33C2V	LW7S-33C2M	
				3PDT	LW7S-33C3	LW7S-33C3V	—	
	Silver	DPDT	LW7S-33C6	—	LW7S-33C6M			
3PDT		LW7S-33C7	—	—				
Square Black Plastic Bezel LW7S-*L (Lever Operator)  		90° 2-position Maintained		Gold	SPDT	LW7S-2LC1	LW7S-2LC1V	—
	DPDT				LW7S-2LC2	LW7S-2LC2V	LW7S-2LC2M	
	3PDT				LW7S-2LC3	LW7S-2LC3V	—	
	Silver			SPDT	LW7S-2LC5	—	—	
				DPDT	LW7S-2LC6	—	LW7S-2LC6M	
				3PDT	LW7S-2LC7	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW7S-21LC1	LW7S-21LC1V	—	
				DPDT	LW7S-21LC2	LW7S-21LC2V	LW7S-21LC2M	
				3PDT	LW7S-21LC3	LW7S-21LC3V	—	
			Silver	SPDT	LW7S-21LC5	—	—	
				DPDT	LW7S-21LC6	—	LW7S-21LC6M	
				3PDT	LW7S-21LC7	—	—	
	45° 3-position Maintained		Gold	DPDT	LW7S-3LC2	LW7S-3LC2V	LW7S-3LC2M	
				3PDT	LW7S-3LC3	LW7S-3LC3V	—	
				Silver	DPDT	LW7S-3LC6	—	LW7S-3LC6M
			Silver	3PDT	LW7S-3LC7	—	—	
				Gold	DPDT	LW7S-31LC2	LW7S-31LC2V	LW7S-31LC2M
					3PDT	LW7S-31LC3	LW7S-31LC3V	—
	Silver	DPDT	LW7S-31LC6		—	LW7S-31LC6M		
		3PDT	LW7S-31LC7	—	—			
		45° 3-position Spring Return from Left		Gold	DPDT	LW7S-32LC2	LW7S-32LC2V	LW7S-32LC2M
	3PDT				LW7S-32LC3	LW7S-32LC3V	—	
	Silver				DPDT	LW7S-32LC6	—	LW7S-32LC6M
	Silver			3PDT	LW7S-32LC7	—	—	
Gold				DPDT	LW7S-33LC2	LW7S-33LC2V	LW7S-33LC2M	
				3PDT	LW7S-33LC3	LW7S-33LC3V	—	
	Silver	DPDT	LW7S-33LC6	—	LW7S-33LC6M			
3PDT		LW7S-33LC7	—	—				

• For contact operation and dimensions, see page 21.

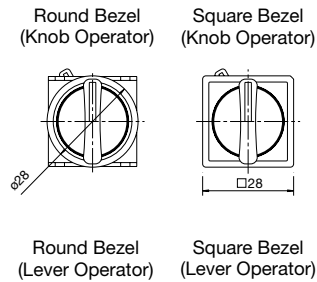
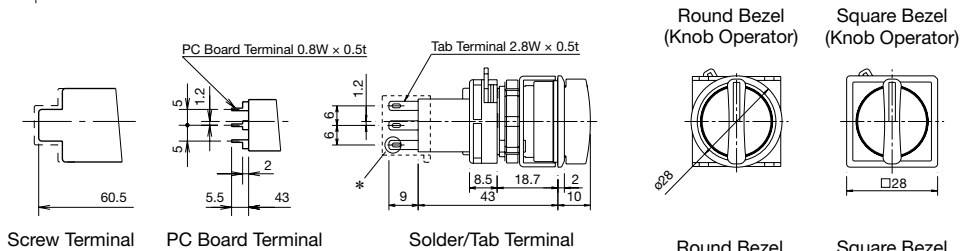
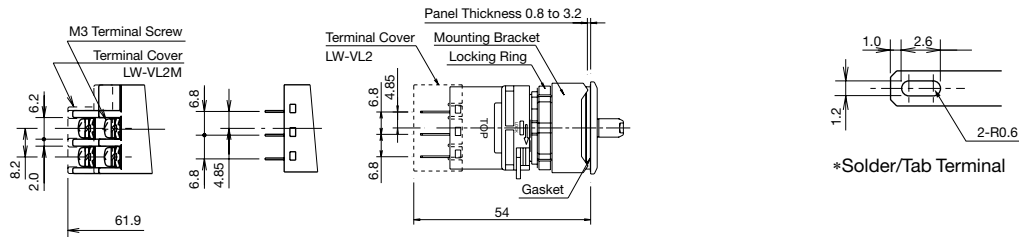
Flush Silhouette Switches LW series Selector Switches

Contact Operation

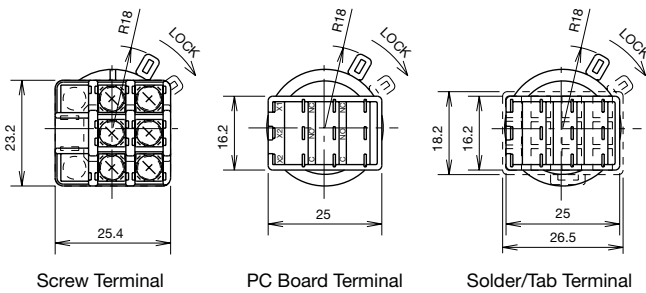
Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)		
		Left	Right			Left	Center	Right
90° 2-Position 	SPDT DPDT			45° 3-Position 	DPDT			
	3PDT				3PDT			

• SPDT has C, NO, and NC only in the center of the terminal.

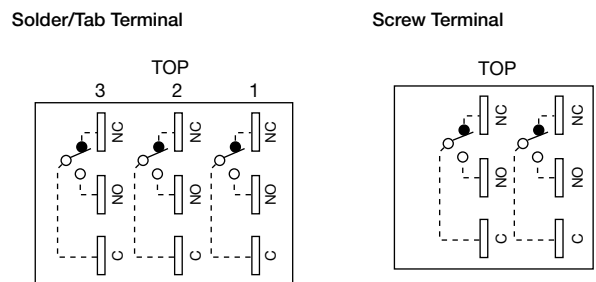
Dimensions



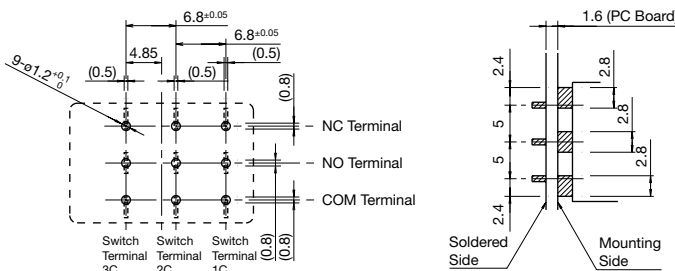
Bottom View



Terminal Arrangement (Bottom View)

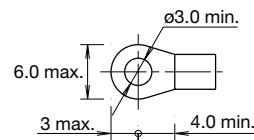


PC Board Drilling Layout (Bottom View)



Note:
SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left.
Screw terminal is only available in DPDT configuration.

Applicable Crimping Terminal















Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.

Flush Silhouette Switches LW series Illuminated Selector Switches

Illuminated Selector Switches with Round Metal / Black Plastic Bezel

Package Quantity: 1









Shape	Operation	Position	Contact Material	Contact	Part No.			
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Round Metal Bezel LW6MF (Knob Operator)  	90° 2-position Maintained		Gold	SPDT	LW6MF-2C1 ^②	LW6MF-2C1 ^③ V ^②	—	
				DPDT	LW6MF-2C2 ^②	LW6MF-2C2 ^③ V ^②	LW6MF-2C2 ^③ M ^②	
				3PDT	LW6MF-2C3 ^②	LW6MF-2C3 ^③ V ^②	—	
			Silver	SPDT	LW6MF-2C5 ^②	—	—	
				DPDT	LW6MF-2C6 ^②	—	LW6MF-2C6 ^③ M ^②	
				3PDT	LW6MF-2C7 ^②	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW6MF-21C1 ^②	LW6MF-21C1 ^③ V ^②	—	
				DPDT	LW6MF-21C2 ^②	LW6MF-21C2 ^③ V ^②	LW6MF-21C2 ^③ M ^②	
				3PDT	LW6MF-21C3 ^②	LW6MF-21C3 ^③ V ^②	—	
			Silver	SPDT	LW6MF-21C5 ^②	—	—	
				DPDT	LW6MF-21C6 ^②	—	LW6MF-21C6 ^③ M ^②	
				3PDT	LW6MF-21C7 ^②	—	—	
	45° 3-position Maintained		Gold	DPDT	LW6MF-3C2 ^②	LW6MF-3C2 ^③ V ^②	LW6MF-3C2 ^③ M ^②	
				3PDT	LW6MF-3C3 ^②	LW6MF-3C3 ^③ V ^②	—	
				Silver	DPDT	LW6MF-3C6 ^②	—	LW6MF-3C6 ^③ M ^②
			Silver	3PDT	LW6MF-3C7 ^②	—	—	
				Gold	DPDT	LW6MF-31C2 ^②	LW6MF-31C2 ^③ V ^②	LW6MF-31C2 ^③ M ^②
					3PDT	LW6MF-31C3 ^②	LW6MF-31C3 ^③ V ^②	—
	Silver	DPDT	LW6MF-31C6 ^②		—	LW6MF-31C6 ^③ M ^②		
		3PDT	LW6MF-31C7 ^②	—	—			
		45° 3-position Spring Return from Left		Gold	DPDT	LW6MF-32C2 ^②	LW6MF-32C2 ^③ V ^②	LW6MF-32C2 ^③ M ^②
	3PDT				LW6MF-32C3 ^②	LW6MF-32C3 ^③ V ^②	—	
	Silver				DPDT	LW6MF-32C6 ^②	—	LW6MF-32C6 ^③ M ^②
	Silver			3PDT	LW6MF-32C7 ^②	—	—	
Gold				DPDT	LW6MF-33C2 ^②	LW6MF-33C2 ^③ V ^②	LW6MF-33C2 ^③ M ^②	
				3PDT	LW6MF-33C3 ^②	LW6MF-33C3 ^③ V ^②	—	
	Silver	DPDT	LW6MF-33C6 ^②	—	LW6MF-33C6 ^③ M ^②			
3PDT		LW6MF-33C7 ^②	—	—				
Round Black Plastic Bezel LW6F (Knob Operator)  		90° 2-position Maintained		Gold	SPDT	LW6F-2C1 ^②	LW6F-2C1 ^③ V ^②	—
	DPDT				LW6F-2C2 ^②	LW6F-2C2 ^③ V ^②	LW6F-2C2 ^③ M ^②	
	3PDT				LW6F-2C3 ^②	LW6F-2C3 ^③ V ^②	—	
	Silver			SPDT	LW6F-2C5 ^②	—	—	
				DPDT	LW6F-2C6 ^②	—	LW6F-2C6 ^③ M ^②	
				3PDT	LW6F-2C7 ^②	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW6F-21C1 ^②	LW6F-21C1 ^③ V ^②	—	
				DPDT	LW6F-21C2 ^②	LW6F-21C2 ^③ V ^②	LW6F-21C2 ^③ M ^②	
				3PDT	LW6F-21C3 ^②	LW6F-21C3 ^③ V ^②	—	
			Silver	SPDT	LW6F-21C5 ^②	—	—	
				DPDT	LW6F-21C6 ^②	—	LW6F-21C6 ^③ M ^②	
				3PDT	LW6F-21C7 ^②	—	—	
	45° 3-position Maintained		Gold	DPDT	LW6F-3C2 ^②	LW6F-3C2 ^③ V ^②	LW6F-3C2 ^③ M ^②	
				3PDT	LW6F-3C3 ^②	LW6F-3C3 ^③ V ^②	—	
				Silver	DPDT	LW6F-3C6 ^②	—	LW6F-3C6 ^③ M ^②
			Silver	3PDT	LW6F-3C7 ^②	—	—	
				Gold	DPDT	LW6F-31C2 ^②	LW6F-31C2 ^③ V ^②	LW6F-31C2 ^③ M ^②
					3PDT	LW6F-31C3 ^②	LW6F-31C3 ^③ V ^②	—
	Silver	DPDT	LW6F-31C6 ^②		—	LW6F-31C6 ^③ M ^②		
		3PDT	LW6F-31C7 ^②	—	—			
		45° 3-position Spring Return from Left		Gold	DPDT	LW6F-32C2 ^②	LW6F-32C2 ^③ V ^②	LW6F-32C2 ^③ M ^②
	3PDT				LW6F-32C3 ^②	LW6F-32C3 ^③ V ^②	—	
	Silver				DPDT	LW6F-32C6 ^②	—	LW6F-32C6 ^③ M ^②
	Silver			3PDT	LW6F-32C7 ^②	—	—	
Gold				DPDT	LW6F-33C2 ^②	LW6F-33C2 ^③ V ^②	LW6F-33C2 ^③ M ^②	
				3PDT	LW6F-33C3 ^②	LW6F-33C3 ^③ V ^②	—	
	Silver	DPDT	LW6F-33C6 ^②	—	LW6F-33C6 ^③ M ^②			
3PDT		LW6F-33C7 ^②	—	—				

• For Color Code ② and Operating Voltage Code ③, see page 23.

Flush Silhouette Switches LW series Illuminated Selector Switches

Illuminated Selector Switches with Square Black Plastic Bezel

Package Quantity: 1


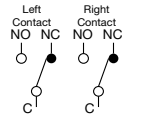
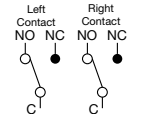

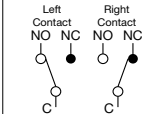
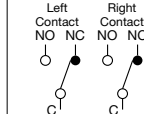
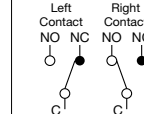
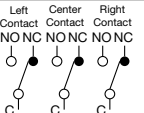
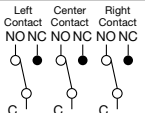
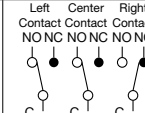
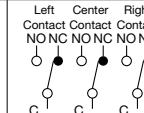
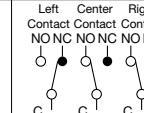
Shape	Operation	Position	Contact Material	Contact	Part No.		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal
Square Black Plastic Bezel LW7F (Knob Operator)  	90° 2-position Maintained		Gold	SPDT	LW7F-2C1③②	LW7F-2C1③V②	—
				DPDT	LW7F-2C2③②	LW7F-2C2③V②	LW7F-2C2③M②
				3PDT	LW7F-2C3③②	LW7F-2C3③V②	—
		Silver	SPDT	LW7F-2C5③②	—	—	
			DPDT	LW7F-2C6③②	—	LW7F-2C6③M②	
			3PDT	LW7F-2C7③②	—	—	
	90° 2-position Spring Return from Right		Gold	SPDT	LW7F-21C1③②	LW7F-21C1③V②	—
				DPDT	LW7F-21C2③②	LW7F-21C2③V②	LW7F-21C2③M②
				3PDT	LW7F-21C3③②	LW7F-21C3③V②	—
		Silver	SPDT	LW7F-21C5③②	—	—	
			DPDT	LW7F-21C6③②	—	LW7F-21C6③M②	
			3PDT	LW7F-21C7③②	—	—	
	45° 3-position Maintained		Gold	DPDT	LW7F-3C2③②	LW7F-3C2③V②	LW7F-3C2③M②
				3PDT	LW7F-3C3③②	LW7F-3C3③V②	—
			Silver	DPDT	LW7F-3C6③②	—	LW7F-3C6③M②
	3PDT	LW7F-3C7③②		—	—		
	45° 3-position Spring Return from Right		Gold	DPDT	LW7F-31C2③②	LW7F-31C2③V②	LW7F-31C2③M②
				3PDT	LW7F-31C3③②	LW7F-31C3③V②	—
			Silver	DPDT	LW7F-31C6③②	—	LW7F-31C6③M②
	3PDT	LW7F-31C7③②		—	—		
	45° 3-position Spring Return from Left		Gold	DPDT	LW7F-32C2③②	LW7F-32C2③V②	LW7F-32C2③M②
				3PDT	LW7F-32C3③②	LW7F-32C3③V②	—
			Silver	DPDT	LW7F-32C6③②	—	LW7F-32C6③M②
	3PDT	LW7F-32C7③②		—	—		
45° 3-position Spring Return Two-way		Gold	DPDT	LW7F-33C2③②	LW7F-33C2③V②	LW7F-33C2③M②	
			3PDT	LW7F-33C3③②	LW7F-33C3③V②	—	
		Silver	DPDT	LW7F-33C6③②	—	LW7F-33C6③M②	
3PDT	LW7F-33C7③②		—	—			

Color Code and Operating Voltage Code

② Lens/LED Color Code	③ Operating Voltage Code
Specify a Lens/LED color code in place of ② in the Part No.	Specify an operating voltage code in place of ③ in the Part No.
A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	2: 6V AC/DC 3: 12V AC/DC 4: 24V AC/DC

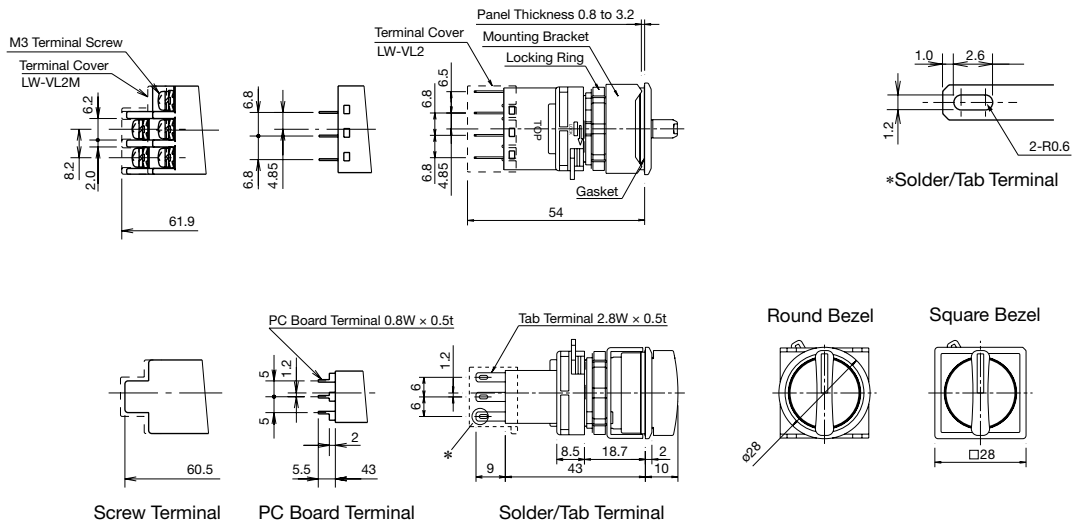
- Every illuminated selector switch contains an LED lamp (LSTD) of the specified color and voltage. A pure white LED lamp is used for yellow illumination.
- For replacement LED lamps, see page 38.

Contact Operation

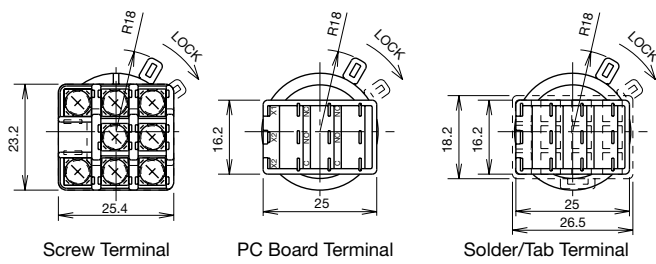
Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)		
		Left	Right			Left	Center	Right
 90° 2-Position	SPDT DPDT			 45° 3-Position	DPDT			
	3PDT				3PDT			

Flush Silhouette Switches LW series Illuminated Selector Switches

Dimensions

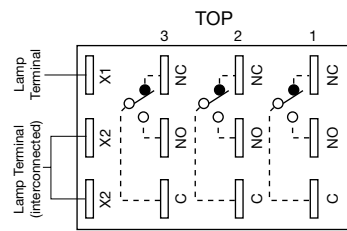


Bottom View



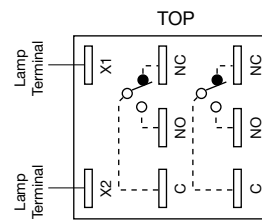
Terminal Arrangement (Bottom View)

Solder/Tab Terminal

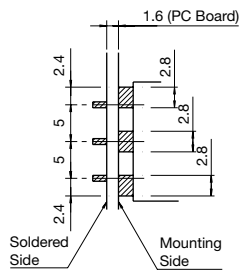
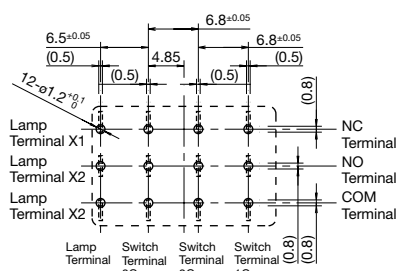


Note: SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left. Lamp terminals do not have any polarity.

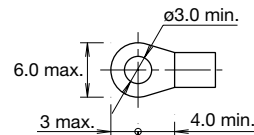
Screw Terminal



PC Board Drilling Layout (Bottom View)



Applicable Crimping Terminal





Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm

All dimensions in mm.










Flush Silhouette Switches LW series Key Selector Switches

Key Selector Switches with Round Metal Bezel (2-Position and 3-Position)

Package Quantity: 1

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.				
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal		
Round Metal Bezel LW6MK  	90° 2-position Maintained	A	Gold	SPDT	LW6MK-2C1A	LW6MK-2C1VA	—		
				DPDT	LW6MK-2C2A	LW6MK-2C2VA	LW6MK-2C2MA		
				3PDT	LW6MK-2C3A	LW6MK-2C3VA	—		
			Silver	SPDT	LW6MK-2C5A	—	—		
				DPDT	LW6MK-2C6A	—	LW6MK-2C6MA		
				3PDT	LW6MK-2C7A	—	—		
		B	Gold	SPDT	LW6MK-2C1B	LW6MK-2C1VB	—		
				DPDT	LW6MK-2C2B	LW6MK-2C2VB	LW6MK-2C2MB		
				3PDT	LW6MK-2C3B	LW6MK-2C3VB	—		
			Silver	SPDT	LW6MK-2C5B	—	—		
				DPDT	LW6MK-2C6B	—	LW6MK-2C6MB		
				3PDT	LW6MK-2C7B	—	—		
		C	Gold	SPDT	LW6MK-2C1C	LW6MK-2C1VC	—		
				DPDT	LW6MK-2C2C	LW6MK-2C2VC	LW6MK-2C2MC		
				3PDT	LW6MK-2C3C	LW6MK-2C3VC	—		
			Silver	SPDT	LW6MK-2C5C	—	—		
				DPDT	LW6MK-2C6C	—	LW6MK-2C6MC		
				3PDT	LW6MK-2C7C	—	—		
		90° 2-position Spring Return from Right	B	Gold	SPDT	LW6MK-21C1B	LW6MK-21C1VB	—	
					DPDT	LW6MK-21C2B	LW6MK-21C2VB	LW6MK-21C2MB	
					3PDT	LW6MK-21C3B	LW6MK-21C3VB	—	
				Silver	SPDT	LW6MK-21C5B	—	—	
					DPDT	LW6MK-21C6B	—	LW6MK-21C6MB	
					3PDT	LW6MK-21C7B	—	—	
	45° 3-position Maintained		A	Gold	DPDT	LW6MK-3C2A	LW6MK-3C2VA	LW6MK-3C2MA	
					3PDT	LW6MK-3C3A	LW6MK-3C3VA	—	
					Silver	DPDT	LW6MK-3C6A	—	LW6MK-3C6MA
				3PDT	LW6MK-3C7A	—	—		
				B	Gold	DPDT	LW6MK-3C2B	LW6MK-3C2VB	LW6MK-3C2MB
						3PDT	LW6MK-3C3B	LW6MK-3C3VB	—
		Silver	DPDT			LW6MK-3C6B	—	LW6MK-3C6MB	
		3PDT	LW6MK-3C7B		—	—			
		C	Gold		DPDT	LW6MK-3C2C	LW6MK-3C2VC	LW6MK-3C2MC	
					3PDT	LW6MK-3C3C	LW6MK-3C3VC	—	
				Silver	DPDT	LW6MK-3C6C	—	LW6MK-3C6MC	
			3PDT	LW6MK-3C7C	—	—			
			D	Gold	DPDT	LW6MK-3C2D	LW6MK-3C2VD	LW6MK-3C2MD	
					3PDT	LW6MK-3C3D	LW6MK-3C3VD	—	
		Silver			DPDT	LW6MK-3C6D	—	LW6MK-3C6MD	
		3PDT		LW6MK-3C7D	—	—			
		E		Gold	DPDT	LW6MK-3C2E	LW6MK-3C2VE	LW6MK-3C2ME	
					3PDT	LW6MK-3C3E	LW6MK-3C3VE	—	
			Silver		DPDT	LW6MK-3C6E	—	LW6MK-3C6ME	
			3PDT	LW6MK-3C7E	—	—			
			G	Gold	DPDT	LW6MK-3C2G	LW6MK-3C2VG	LW6MK-3C2MG	
					3PDT	LW6MK-3C3G	LW6MK-3C3VG	—	
		Silver			DPDT	LW6MK-3C6G	—	LW6MK-3C6MG	
		3PDT		LW6MK-3C7G	—	—			
H	Gold	DPDT		LW6MK-3C2H	LW6MK-3C2VH	LW6MK-3C2MH			
		3PDT		LW6MK-3C3H	LW6MK-3C3VH	—			
		Silver	DPDT	LW6MK-3C6H	—	LW6MK-3C6MH			
	3PDT	LW6MK-3C7H	—	—					

Flush Silhouette Switches LW series Key Selector Switches

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Round Metal Bezel LW6MK  	45° 3-position Spring Return from Right	B		Gold	DPDT	LW6MK-31C2B	LW6MK-31C2VB	LW6MK-31C2MB
				3PDT	LW6MK-31C3B	LW6MK-31C3VB	—	
		Silver	DPDT	LW6MK-31C6B	—	LW6MK-31C6MB		
			3PDT	LW6MK-31C7B	—	—		
		D		Gold	DPDT	LW6MK-31C2D	LW6MK-31C2VD	LW6MK-31C2MD
				3PDT	LW6MK-31C3D	LW6MK-31C3VD	—	
		Silver	DPDT	LW6MK-31C6D	—	LW6MK-31C6MD		
			3PDT	LW6MK-31C7D	—	—		
		G		Gold	DPDT	LW6MK-31C2G	LW6MK-31C2VG	LW6MK-31C2MG
				3PDT	LW6MK-31C3G	LW6MK-31C3VG	—	
		Silver	DPDT	LW6MK-31C6G	—	LW6MK-31C6MG		
			3PDT	LW6MK-31C7G	—	—		
	45° 3-position Spring Return from Left	C		Gold	DPDT	LW6MK-32C2C	LW6MK-32C2VC	LW6MK-32C2MC
				3PDT	LW6MK-32C3C	LW6MK-32C3VC	—	
		Silver	DPDT	LW6MK-32C6C	—	LW6MK-32C6MC		
			3PDT	LW6MK-32C7C	—	—		
		D		Gold	DPDT	LW6MK-32C2D	LW6MK-32C2VD	LW6MK-32C2MD
				3PDT	LW6MK-32C3D	LW6MK-32C3VD	—	
		Silver	DPDT	LW6MK-32C6D	—	LW6MK-32C6MD		
			3PDT	LW6MK-32C7D	—	—		
		H		Gold	DPDT	LW6MK-32C2H	LW6MK-32C2VH	LW6MK-32C2MH
				3PDT	LW6MK-32C3H	LW6MK-32C3VH	—	
		Silver	DPDT	LW6MK-32C6H	—	LW6MK-32C6MH		
			3PDT	LW6MK-32C7H	—	—		
	45° 3-position Spring Return Two-way	D		Gold	DPDT	LW6MK-33C2D	LW6MK-33C2VD	LW6MK-33C2MD
					3PDT	LW6MK-33C3D	LW6MK-33C3VD	—
				Silver	DPDT	LW6MK-33C6D	—	LW6MK-33C6MD
					3PDT	LW6MK-33C7D	—	—


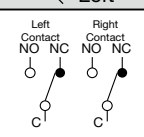
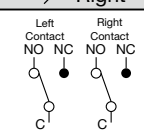

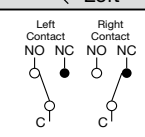
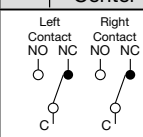
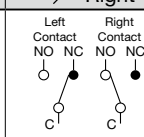
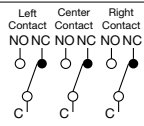
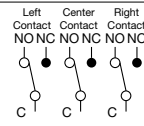
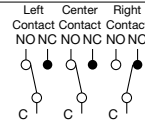
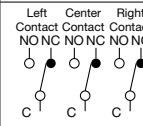
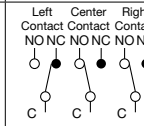
- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

Example: LW6MK-2C1A-501

500 (default key) to 515

* Other than the above 16 numbers, 44 additional key numbers are available upon request.



Contact Operation

Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)		
		Left	Right			Left	Center	Right
 90° 2-Position	SPDT DPDT			 45° 3-Position	DPDT			
	3PDT				3PDT			







Flush Silhouette Switches LW series Key Selector Switches

Key Selector Switches with Black Plastic Bezel (2-Position and 3-Position)

Package Quantity: 1

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.				
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal		
Round Black Plastic Bezel LW6K  	90° 2-position Maintained	A	Gold	SPDT	LW6K-2C1A	LW6K-2C1VA	—		
				DPDT	LW6K-2C2A	LW6K-2C2VA	LW6K-2C2MA		
				3PDT	LW6K-2C3A	LW6K-2C3VA	—		
			Silver	SPDT	LW6K-2C5A	—	—		
				DPDT	LW6K-2C6A	—	LW6K-2C6MA		
				3PDT	LW6K-2C7A	—	—		
		B	Gold	SPDT	LW6K-2C1B	LW6K-2C1VB	—		
				DPDT	LW6K-2C2B	LW6K-2C2VB	LW6K-2C2MB		
				3PDT	LW6K-2C3B	LW6K-2C3VB	—		
			Silver	SPDT	LW6K-2C5B	—	—		
				DPDT	LW6K-2C6B	—	LW6K-2C6MB		
				3PDT	LW6K-2C7B	—	—		
	C	Gold	SPDT	LW6K-2C1C	LW6K-2C1VC	—			
			DPDT	LW6K-2C2C	LW6K-2C2VC	LW6K-2C2MC			
			3PDT	LW6K-2C3C	LW6K-2C3VC	—			
		Silver	SPDT	LW6K-2C5C	—	—			
			DPDT	LW6K-2C6C	—	LW6K-2C6MC			
			3PDT	LW6K-2C7C	—	—			
	90° 2-position Spring Return from Right	B	Gold	SPDT	LW6K-21C1B	LW6K-21C1VB	—		
				DPDT	LW6K-21C2B	LW6K-21C2VB	LW6K-21C2MB		
				3PDT	LW6K-21C3B	LW6K-21C3VB	—		
			Silver	SPDT	LW6K-21C5B	—	—		
				DPDT	LW6K-21C6B	—	LW6K-21C6MB		
				3PDT	LW6K-21C7B	—	—		
		45° 3-position Maintained	A	Gold	DPDT	LW6K-3C2A	LW6K-3C2VA	LW6K-3C2MA	
					3PDT	LW6K-3C3A	LW6K-3C3VA	—	
					Silver	DPDT	LW6K-3C6A	—	LW6K-3C6MA
				3PDT		LW6K-3C7A	—	—	
				B		Gold	DPDT	LW6K-3C2B	LW6K-3C2VB
					3PDT		LW6K-3C3B	LW6K-3C3VB	—
	Silver		DPDT		LW6K-3C6B		—	LW6K-3C6MB	
			3PDT		LW6K-3C7B	—	—		
			C		Gold	DPDT	LW6K-3C2C	LW6K-3C2VC	LW6K-3C2MC
	3PDT					LW6K-3C3C	LW6K-3C3VC	—	
	Silver			DPDT		LW6K-3C6C	—	LW6K-3C6MC	
				3PDT	LW6K-3C7C	—	—		
				D	Gold	DPDT	LW6K-3C2D	LW6K-3C2VD	LW6K-3C2MD
	3PDT					LW6K-3C3D	LW6K-3C3VD	—	
	Silver		DPDT			LW6K-3C6D	—	LW6K-3C6MD	
			3PDT		LW6K-3C7D	—	—		
			E		Gold	DPDT	LW6K-3C2E	LW6K-3C2VE	LW6K-3C2ME
	3PDT					LW6K-3C3E	LW6K-3C3VE	—	
	Silver			DPDT		LW6K-3C6E	—	LW6K-3C6ME	
				3PDT	LW6K-3C7E	—	—		
				G	Gold	DPDT	LW6K-3C2G	LW6K-3C2VG	LW6K-3C2MG
	3PDT					LW6K-3C3G	LW6K-3C3VG	—	
	Silver		DPDT			LW6K-3C6G	—	LW6K-3C6MG	
			3PDT		LW6K-3C7G	—	—		
H		Gold	DPDT		LW6K-3C2H	LW6K-3C2VH	LW6K-3C2MH		
	3PDT		LW6K-3C3H		LW6K-3C3VH	—			
	Silver		DPDT	LW6K-3C6H	—	LW6K-3C6MH			
		3PDT	LW6K-3C7H	—	—				

Flush Silhouette Switches LW series Key Selector Switches

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
Round Black Plastic Bezel LW6K   	45° 3-position Spring Return from Right	B		Gold	DPDT	LW6K-31C2B	LW6K-31C2VB	LW6K-31C2MB
					3PDT	LW6K-31C3B	LW6K-31C3VB	—
				Silver	DPDT	LW6K-31C6B	—	LW6K-31C6MB
		3PDT	LW6K-31C7B		—	—		
		D	Gold	DPDT	LW6K-31C2D	LW6K-31C2VD	LW6K-31C2MD	
				3PDT	LW6K-31C3D	LW6K-31C3VD	—	
			Silver	DPDT	LW6K-31C6D	—	LW6K-31C6MD	
		3PDT		LW6K-31C7D	—	—		
		G	Gold	DPDT	LW6K-31C2G	LW6K-31C2VG	LW6K-31C2MG	
				3PDT	LW6K-31C3G	LW6K-31C3VG	—	
			Silver	DPDT	LW6K-31C6G	—	LW6K-31C6MG	
		3PDT		LW6K-31C7G	—	—		
	45° 3-position Spring Return from Left	C		Gold	DPDT	LW6K-32C2C	LW6K-32C2VC	LW6K-32C2MC
					3PDT	LW6K-32C3C	LW6K-32C3VC	—
				Silver	DPDT	LW6K-32C6C	—	LW6K-32C6MC
		3PDT	LW6K-32C7C		—	—		
		D	Gold	DPDT	LW6K-32C2D	LW6K-32C2VD	LW6K-32C2MD	
				3PDT	LW6K-32C3D	LW6K-32C3VD	—	
			Silver	DPDT	LW6K-32C6D	—	LW6K-32C6MD	
		3PDT		LW6K-32C7D	—	—		
		H	Gold	DPDT	LW6K-32C2H	LW6K-32C2VH	LW6K-32C2MH	
				3PDT	LW6K-32C3H	LW6K-32C3VH	—	
			Silver	DPDT	LW6K-32C6H	—	LW6K-32C6MH	
		3PDT		LW6K-32C7H	—	—		
45° 3-position Spring Return Two-way	D		Gold	DPDT	LW6K-33C2D	LW6K-33C2VD	LW6K-33C2MD	
				3PDT	LW6K-33C3D	LW6K-33C3VD	—	
			Silver	DPDT	LW6K-33C6D	—	LW6K-33C6MD	
3PDT	LW6K-33C7D	—		—				


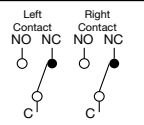
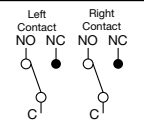

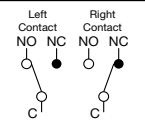
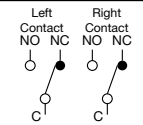
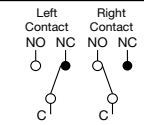
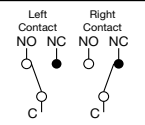
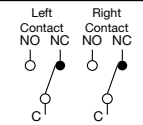
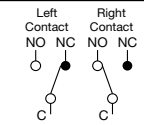
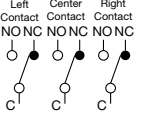
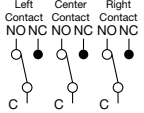
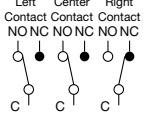
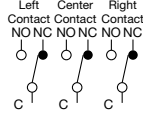
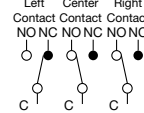
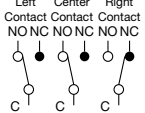
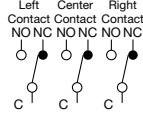
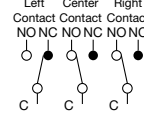
- Key is retained in ● position and removable in ○ position.
- Two keys are supplied.
- Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

Example: LW6MK-2C1A-501

500 (default key) to 515

* Other than the above 16 numbers, 44 additional key numbers are available upon request.


Contact Operation

Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)					
		↙ Left	↘ Right			↙ Left	↑ Center	↘ Right	↙ Left	↘ Right	↙ Left
 90° 2-Position	SPDT DPDT			 45° 3-Position	DPDT						
	3PDT				3PDT						

Flush Silhouette Switches LW series Ring-illuminated Key Selector Switches

Ring-illuminated Key Selector Switches with Round Metal Bezel (2- and 3-position)

Package Quantity: 1

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			② Ring Illumination Color Code
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
 Round Metal Bezel LW6MJ	90° 2-position Maintained	A	Gold	SPDT	LW6MJ-2C14②A	LW6MJ-2C14V②A	—	GG: green/green PWPW: pure white/ pure white RR: red/red
				DPDT	LW6MJ-2C24②A	LW6MJ-2C24V②A	LW6MJ-2C24M②A	
				3PDT	LW6MJ-2C34②A	LW6MJ-2C34V②A	—	
			Silver	SPDT	LW6MJ-2C54②A	—	—	
				DPDT	LW6MJ-2C64②A	—	LW6MJ-2C64M②A	
				3PDT	LW6MJ-2C74②A	—	—	
		B	Gold	SPDT	LW6MJ-2C14②B	LW6MJ-2C14V②B	—	
				DPDT	LW6MJ-2C24②B	LW6MJ-2C24V②B	LW6MJ-2C24M②B	
				3PDT	LW6MJ-2C34②B	LW6MJ-2C34V②B	—	
			Silver	SPDT	LW6MJ-2C54②B	—	—	
				DPDT	LW6MJ-2C64②B	—	LW6MJ-2C64M②B	
				3PDT	LW6MJ-2C74②B	—	—	
		C	Gold	SPDT	LW6MJ-2C14②C	LW6MJ-2C14V②C	—	
				DPDT	LW6MJ-2C24②C	LW6MJ-2C24V②C	LW6MJ-2C24M②C	
				3PDT	LW6MJ-2C34②C	LW6MJ-2C34V②C	—	
			Silver	SPDT	LW6MJ-2C54②C	—	—	
	DPDT			LW6MJ-2C64②C	—	LW6MJ-2C64M②C		
	3PDT			LW6MJ-2C74②C	—	—		
	90° 2-position Spring Return from Right	B	Gold	SPDT	LW6MJ-21C14②B	LW6MJ-21C14V②B	—	
				DPDT	LW6MJ-21C24②B	LW6MJ-21C24V②B	LW6MJ-21C24M②B	
				3PDT	LW6MJ-21C34②B	LW6MJ-21C34V②B	—	
				SPDT	LW6MJ-21C54②B	—	—	
			Silver	DPDT	LW6MJ-21C64②B	—	LW6MJ-21C64M②B	
				3PDT	LW6MJ-21C74②B	—	—	


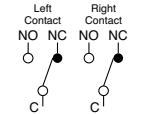
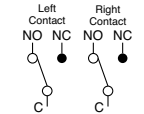

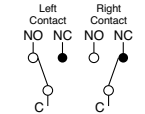
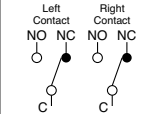
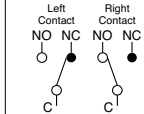
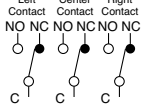
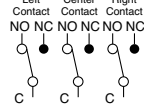
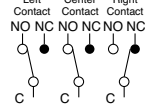
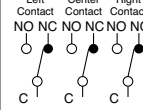
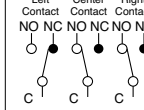
- Specify a color code in place of ② in the Type No. SS (blue/blue) is also available.
- For details on illumination, see page 34.
- Two keys are supplied.
- Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

Example: LW6MJ-2C14RRA-501



501 to 515

* Other than the above 16 keys, 44 additional keys are also available.

Contact Operation

Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)		
		Left	Right			Left	Center	Right
 90° 2-Position	SPDT DPDT			 45° 3-Position	DPDT			
	3PDT				3PDT			

Flush Silhouette Switches LW series Ring-illuminated Key Selector Switches

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			② Ring Illumination Color Code		
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal			
 	45° 3-position Maintained	A	L C R	Gold	DPDT	LW6MJ-3C24②A	LW6MJ-3C24V②A	LW6MJ-3C24M②A	GG: green/green PWPW: pure white/ pure white RG: red/green RR:red/red	
				3PDT	LW6MJ-3C34②A	LW6MJ-3C34V②A	—			
			Silver	DPDT	LW6MJ-3C64②A	—	LW6MJ-3C64M②A			
			3PDT	LW6MJ-3C74②A	—	—				
			B	L C R	Gold	DPDT	LW6MJ-3C24②B	LW6MJ-3C24V②B		LW6MJ-3C24M②B
					3PDT	LW6MJ-3C34②B	LW6MJ-3C34V②B	—		
		Silver		DPDT	LW6MJ-3C64②B	—	LW6MJ-3C64M②B			
		3PDT		LW6MJ-3C74②B	—	—				
		C		L C R	Gold	DPDT	LW6MJ-3C24②C	LW6MJ-3C24V②C		LW6MJ-3C24M②C
					3PDT	LW6MJ-3C34②C	LW6MJ-3C34V②C	—		
			Silver	DPDT	LW6MJ-3C64②C	—	LW6MJ-3C64M②C			
			3PDT	LW6MJ-3C74②C	—	—				
			D	L C R	Gold	DPDT	LW6MJ-3C24②D	LW6MJ-3C24V②D		LW6MJ-3C24M②D
					3PDT	LW6MJ-3C34②D	LW6MJ-3C34V②D	—		
		Silver		DPDT	LW6MJ-3C64②D	—	LW6MJ-3C64M②D			
		3PDT		LW6MJ-3C74②D	—	—				
		E		L C R	Gold	DPDT	LW6MJ-3C24②E	LW6MJ-3C24V②E		LW6MJ-3C24M②E
					3PDT	LW6MJ-3C34②E	LW6MJ-3C34V②E	—		
			Silver	DPDT	LW6MJ-3C64②E	—	LW6MJ-3C64M②E			
			3PDT	LW6MJ-3C74②E	—	—				
			G	L C R	Gold	DPDT	LW6MJ-3C24②G	LW6MJ-3C24V②G		LW6MJ-3C24M②G
					3PDT	LW6MJ-3C34②G	LW6MJ-3C34V②G	—		
		Silver		DPDT	LW6MJ-3C64②G	—	LW6MJ-3C64M②G			
		3PDT		LW6MJ-3C74②G	—	—				
	H	L C R		Gold	DPDT	LW6MJ-3C24②H	LW6MJ-3C24V②H	LW6MJ-3C24M②H		
				3PDT	LW6MJ-3C34②H	LW6MJ-3C34V②H	—			
		Silver	DPDT	LW6MJ-3C64②H	—	LW6MJ-3C64M②H				
		3PDT	LW6MJ-3C74②H	—	—					
		45° 3-position Spring Return from Right	B	L C R	Gold	DPDT	LW6MJ-31C24②B	LW6MJ-31C24V②B		LW6MJ-31C24M②B
					3PDT	LW6MJ-31C34②B	LW6MJ-31C34V②B	—		
	Silver			DPDT	LW6MJ-31C64②B	—	LW6MJ-31C64M②B			
	3PDT			LW6MJ-31C74②B	—	—				
	D			L C R	Gold	DPDT	LW6MJ-31C24②D	LW6MJ-31C24V②D		LW6MJ-31C24M②D
					3PDT	LW6MJ-31C34②D	LW6MJ-31C34V②D	—		
			Silver	DPDT	LW6MJ-31C64②D	—	LW6MJ-31C64M②D			
			3PDT	LW6MJ-31C74②D	—	—				
			G	L C R	Gold	DPDT	LW6MJ-31C24②G	LW6MJ-31C24V②G		LW6MJ-31C24M②G
					3PDT	LW6MJ-31C34②G	LW6MJ-31C34V②G	—		
	Silver			DPDT	LW6MJ-31C64②G	—	LW6MJ-31C64M②G			
	3PDT			LW6MJ-31C74②G	—	—				
	45° 3-position Spring Return from Left	C		L C R	Gold	DPDT	LW6MJ-32C24②C	LW6MJ-32C24V②C		LW6MJ-32C24M②C
					3PDT	LW6MJ-32C34②C	LW6MJ-32C34V②C	—		
			Silver	DPDT	LW6MJ-32C64②C	—	LW6MJ-32C64M②C			
			3PDT	LW6MJ-32C74②C	—	—				
			D	L C R	Gold	DPDT	LW6MJ-32C24*D	LW6MJ-32C24V②D		LW6MJ-32C24M②D
					3PDT	LW6MJ-32C34*D	LW6MJ-32C34V②D	—		
		Silver		DPDT	LW6MJ-32C64*D	—	LW6MJ-32C64M②D			
		3PDT		LW6MJ-32C74*D	—	—				
H		L C R		Gold	DPDT	LW6MJ-32C24②H	LW6MJ-32C24V*H	LW6MJ-32C24M②H		
				3PDT	LW6MJ-32C34②H	LW6MJ-32C34V*H	—			
		Silver	DPDT	LW6MJ-32C64②H	—	LW6MJ-32C64M②H				
		3PDT	LW6MJ-32C74②H	—	—					
	45° 3-position Spring Return Two-way	D	L C R	Gold	DPDT	LW6MJ-33C24②D	LW6MJ-33C24V②D	LW6MJ-33C24M②D		
				3PDT	LW6MJ-33C34②D	LW6MJ-33C34V②D	—			
Silver		DPDT	LW6MJ-33C64②D	—	LW6MJ-33C64M②D					
3PDT		LW6MJ-33C74②D	—	—						

- Specify a color code in place of ② in the Part No. GR (green/red), SS (blue/blue) are also available.
- For details on illumination, see page 34. • Two keys are supplied. • Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

Example: LW6MJ-3C24RRA-501







501 to 515

- * Other than the above 16 keys, 44 additional keys are also available.
- See page 30 for contact operation.

Flush Silhouette Switches LW series Ring-illuminated Key Selector Switches

Ring-illuminated Key Selector Switches with Round Plastic Bezel (2- and 3-position)

Package Quantity: 1

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			② Ring Illumination Color Code
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal	
 Round Black Plastic Bezel LW6J 	90° 2-position Maintained	A 	Gold	SPDT	LW6J-2C14②A	LW6J-2C14V②A	—	GG: green/green PWPW: pure white/ pure white RR: red/red
				DPDT	LW6J-2C24②A	LW6J-2C24V②A	LW6J-2C24M②A	
				3PDT	LW6J-2C34②A	LW6J-2C34V②A	—	
			Silver	SPDT	LW6J-2C54②A	—	—	
				DPDT	LW6J-2C64②A	—	LW6J-2C64M②A	
				3PDT	LW6J-2C74②A	—	—	
		B 	Gold	SPDT	LW6J-2C14②B	LW6J-2C14V②B	—	
				DPDT	LW6J-2C24②B	LW6J-2C24V②B	LW6J-2C24M②B	
				3PDT	LW6J-2C34②B	LW6J-2C34V②B	—	
			Silver	SPDT	LW6J-2C54②B	—	—	
				DPDT	LW6J-2C64②B	—	LW6J-2C64M②B	
				3PDT	LW6J-2C74②B	—	—	
	90° 2-position Spring Return from Right	B 	Gold	SPDT	LW6J-2C14②C	LW6J-2C14V②C	—	
				DPDT	LW6J-2C24②C	LW6J-2C24V②C	LW6J-2C24M②C	
				3PDT	LW6J-2C34②C	LW6J-2C34V②C	—	
			Silver	SPDT	LW6J-2C54②C	—	—	
				DPDT	LW6J-2C64②C	—	LW6J-2C64M②C	
				3PDT	LW6J-2C74②C	—	—	
		B 	Gold	SPDT	LW6J-21C14②B	LW6J-21C14V②B	—	
				DPDT	LW6J-21C24②B	LW6J-21C24V②B	LW6J-21C24M②B	
				3PDT	LW6J-21C34②B	LW6J-21C34V②B	—	
			Silver	SPDT	LW6J-21C54②B	—	—	
				DPDT	LW6J-21C64②B	—	LW6J-21C64M②B	
				3PDT	LW6J-21C74②B	—	—	


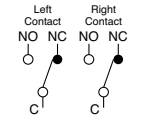
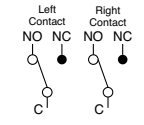

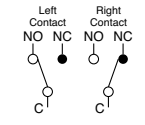
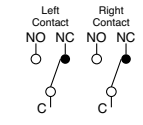
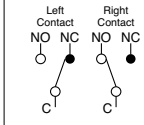
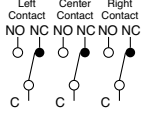
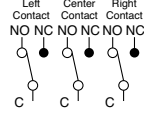
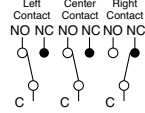
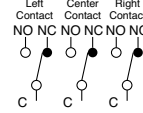
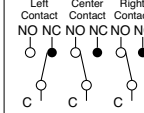
- Specify a color code in place of ② in the Part No. SS (blue/blue) is also available.
- For details on illumination, see page 34.
- Two keys are supplied.
- Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

Example: LW6J-2C14RRA-501


501 to 515

* Other than the above 16 keys, 44 additional keys are also available.

Contact Operation

Operation	Contact	Operator Position and Contact Position (Top View)		Operation	Contact	Operator Position and Contact Position (Top View)		
		↙ Left	↘ Right			↙ Left	↑ Center	↘ Right
 90° 2-Position	SPDT DPDT			 45° 3-Position	DPDT			
	3PDT				3PDT			

Flush Silhouette Switches LW series Ring-illuminated Key Selector Switches

Shape	Operation	Key retained at ●	Contact Material	Contact	Part No.			② Ring Illumination Color Code	
					Solder/Tab Terminal	PC Board Terminal	Screw Terminal		
Round Black Plastic Bezel LW6J 	45° 3-position Maintained	A	Gold	DPDT	LW6J-3C24②A	LW6J-3C24V②A	LW6J-3C24M②A	GG: green/green PWPW: pure white/ pure white RG: red/green RR: red/red	
				3PDT	LW6J-3C34②A	LW6J-3C34V②A	—		
			Silver	DPDT	LW6J-3C64②A	—	LW6J-3C64M②A		
				3PDT	LW6J-3C74②A	—	—		
			B	Gold	DPDT	LW6J-3C24②B	LW6J-3C24V②B		LW6J-3C24M②B
					3PDT	LW6J-3C34②B	LW6J-3C34V②B		—
		Silver		DPDT	LW6J-3C64②B	—	LW6J-3C64M②B		
				3PDT	LW6J-3C74②B	—	—		
		C		Gold	DPDT	LW6J-3C24②C	LW6J-3C24V②C		LW6J-3C24M②C
					3PDT	LW6J-3C34②C	LW6J-3C34V②C		—
			Silver	DPDT	LW6J-3C64②C	—	LW6J-3C64M②C		
				3PDT	LW6J-3C74②C	—	—		
			D	Gold	DPDT	LW6J-3C24②D	LW6J-3C24V②D		LW6J-3C24M②D
					3PDT	LW6J-3C34②D	LW6J-3C34V②D		—
		Silver		DPDT	LW6J-3C64②D	—	LW6J-3C64M②D		
				3PDT	LW6J-3C74②D	—	—		
		E		Gold	DPDT	LW6J-3C24②E	LW6J-3C24V②E		LW6J-3C24M②E
					3PDT	LW6J-3C34②E	LW6J-3C34V②E		—
			Silver	DPDT	LW6J-3C64②E	—	LW6J-3C64M②E		
				3PDT	LW6J-3C74②E	—	—		
			G	Gold	DPDT	LW6J-3C24②G	LW6J-3C24V②G		LW6J-3C24M②G
					3PDT	LW6J-3C34②G	LW6J-3C34V②G		—
		Silver		DPDT	LW6J-3C64②G	—	LW6J-3C64M②G		
				3PDT	LW6J-3C74②G	—	—		
	H	Gold		DPDT	LW6J-3C24②H	LW6J-3C24V②H	LW6J-3C24M②H		
				3PDT	LW6J-3C34②H	LW6J-3C34V②H	—		
		Silver	DPDT	LW6J-3C64②H	—	LW6J-3C64M②H			
			3PDT	LW6J-3C74②H	—	—			
		45° 3-position Spring Return from Right	B	Gold	DPDT	LW6J-31C24②B	LW6J-31C24V②B		LW6J-31C24M②B
					3PDT	LW6J-31C34②B	LW6J-31C34V②B		—
	Silver			DPDT	LW6J-31C64②B	—	LW6J-31C64M②B		
				3PDT	LW6J-31C74②B	—	—		
	D			Gold	DPDT	LW6J-31C24②D	LW6J-31C24V②D		LW6J-31C24M②D
					3PDT	LW6J-31C34②D	LW6J-31C34V②D		—
			Silver	DPDT	LW6J-31C64②D	—	LW6J-31C64M②D		
				3PDT	LW6J-31C74②D	—	—		
			G	Gold	DPDT	LW6J-31C24②G	LW6J-31C24V②G		LW6J-31C24M②G
					3PDT	LW6J-31C34②G	LW6J-31C34V②G		—
	Silver			DPDT	LW6J-31C64②G	—	LW6J-31C64M②G		
				3PDT	LW6J-31C74②G	—	—		
	45° 3-position Spring Return from Left	C		Gold	DPDT	LW6J-32C24②C	LW6J-32C24V②C		LW6J-32C24M②C
					3PDT	LW6J-32C34②C	LW6J-32C34V②C		—
			Silver	DPDT	LW6J-32C64②C	—	LW6J-32C64M②C		
				3PDT	LW6J-32C74②C	—	—		
			D	Gold	DPDT	LW6J-32C24②D	LW6J-32C24V②D		LW6J-32C24M②D
					3PDT	LW6J-32C34②D	LW6J-32C34V②D		—
		Silver		DPDT	LW6J-32C64②D	—	LW6J-32C64M②D		
				3PDT	LW6J-32C74②D	—	—		
H		Gold		DPDT	LW6J-32C24②H	LW6J-32C24V②H	LW6J-32C24M②H		
				3PDT	LW6J-32C34②H	LW6J-32C34V②H	—		
		Silver	DPDT	LW6J-32C64②H	—	LW6J-32C64M②H			
			3PDT	LW6J-32C74②H	—	—			
	45° 3-position Spring Return Two-way	D	Gold	DPDT	LW6J-33C24②D	LW6J-33C24V②D	LW6J-33C24M②D		
				3PDT	LW6J-33C34②D	LW6J-33C34V②D	—		
Silver			DPDT	LW6J-33C64②D	—	LW6J-33C64M②D			
			3PDT	LW6J-33C74②D	—	—			

- Specify a color code in place of ② in the Part No. GR (green/red), SS (blue/blue) are also available.
- For details on illumination, see page 34.
 - Two keys are supplied.
 - Key cylinder face material: Metal
- To select key numbers, specify numbers 501 to 515 after the Part No. When a key number is not specified, key number 500 is supplied the default key.

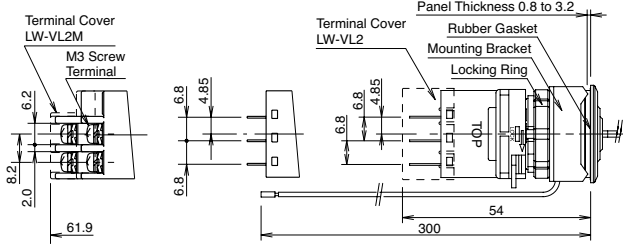
Example: LW6J-3C24RRA-501

501 to 515

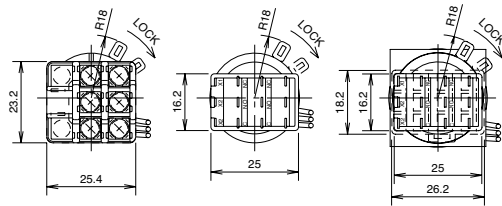
- * Other than the above 16 keys, 44 additional keys are also available.
- See page 32 for contact operation.

Flush Silhouette Switches LW series Ring-illuminated Key Selector Switches

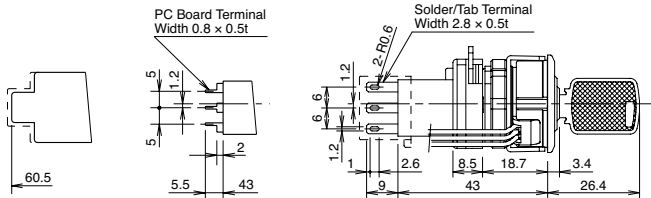
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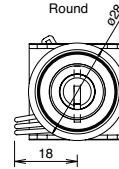
Bottom View



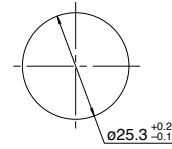
Screw Terminal PC Board Terminal Solder/Tab Terminal



Screw Terminal PC Board Terminal Solder/Tab Terminal



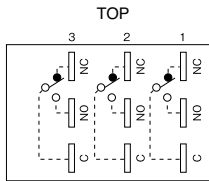
Mounting Hole Layout



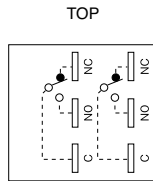
Mounting centers
 Vertical: 28 mm minimum
 Horizontal: 33 mm minimum
 Note: Determine the mounting centers to ensure ease of operation.

Terminal Arrangement (Bottom View)

Solder/Tab Terminal
 PC Board Terminal



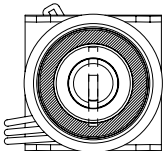
Screw Terminal



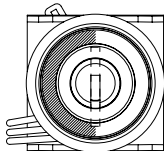
Note: SPDT has C, NO, and NC only in the center. DPDT has C, NO, and NC only on the right and left. Screw terminal is only available in DPDT configuration.

Illumination

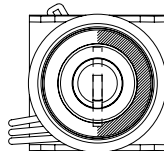
Full Illumination



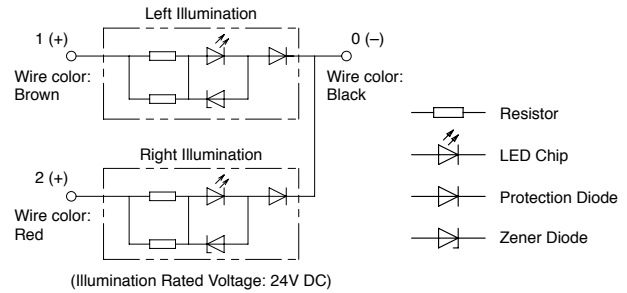
Left Illumination



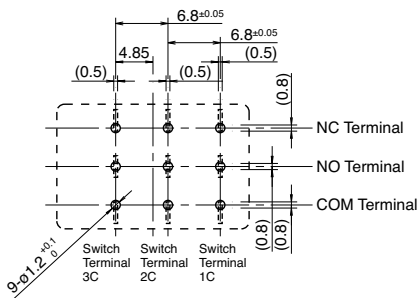
Right Illumination



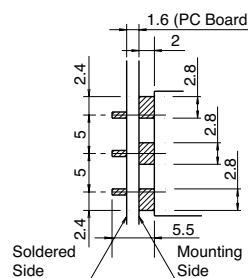
Internal Circuit



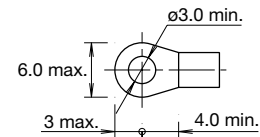
PC Board Drilling Layout (Bottom View)



Note the pattern of the PC board as the terminals on the mounting surface are 2.8 mm wide.


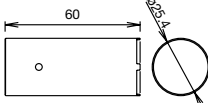

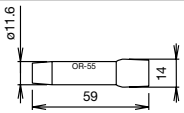

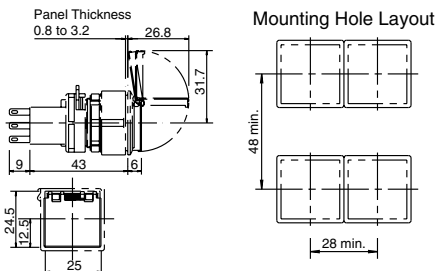

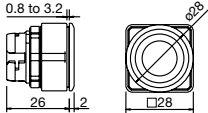
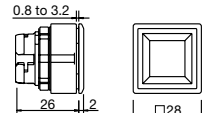

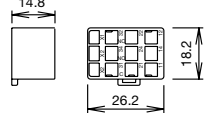
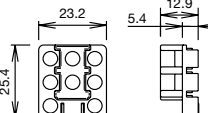

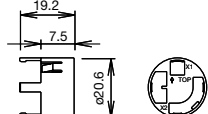



Applicable Crimping Terminal




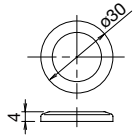

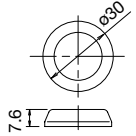

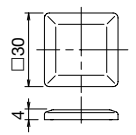
All dimensions in mm.

Flush Silhouette Switches LW Series Accessories












Accessories					
Shape	Material	Part No.	Package Quantity	Dimensions (mm)	
	Metal (nickel-plated brass)	LW9Z-T1	1	<ul style="list-style-type: none"> Used to tighten the locking ring when installing the control unit into a panel. Tightening torque: 1.2 N·m 	
	Rubber (black) (Nitril)	OR-55	1	<ul style="list-style-type: none"> Used to install and remove LED lamps. 	
	Rubber (Ring: metal)	MT-S01	1	<ul style="list-style-type: none"> Used to remove the lens. 	
Switch Guard with Lens (for Square Flush Lens) Spring Return 	Polyarylate (Guard: transparent)	LW9Z-KS7②	1	<ul style="list-style-type: none"> Switch guard accessory comes with lens. Cannot be used with maintained types (momentary buttons only). Specify a lens color code in place of ② in the Part No. A: amber, C: clear, G: green, PW (pure white), R: red, S: blue, Y: yellow Use a clear lens for white illumination or for white (LW) or black (LB) buttons.  <p>Note: Determine mounting centers to ensure easy operation.</p>	
Round Mounting Hole Plug 	Plug: Polyamide (black) Gasket: Nitril Mounting bracket: PBT	LW9Z-BS6	1	<ul style="list-style-type: none"> Degree of protection: IP65 Panel thickness: 0.8 to 3.2 mm See page 5 for mounting hole layout. 	
Square Mounting Hole Plug 	Plug: Polyamide (black) Gasket: Nitril Mounting bracket: PBT	LW9Z-BS7	1	<ul style="list-style-type: none"> Degree of protection: IP65 Panel thickness: 0.8 to 3.2 mm See page 5 for mounting hole layout. 	
Terminal Cover For Solder/Tab Terminal 	Polyamide (translucent)	LW-VL2	1	<ul style="list-style-type: none"> For units with removable contact block only. 	
Terminal Cover For Screw Terminal 	Polyamide (black)	LW-VL2M	1	<ul style="list-style-type: none"> For units with removable contact block only. 	
Terminal Cover For Solder/Tab Terminal 	Polyamide (translucent)	LW-PVL	1	<ul style="list-style-type: none"> For unibody pilot lights only. 	
Terminal Cover For Screw Terminal 	Polyamide (translucent)	LW-PVLM	1	<ul style="list-style-type: none"> For unibody pilot lights only. 	

Flush Silhouette Switches LW Series Accessories

Accessories

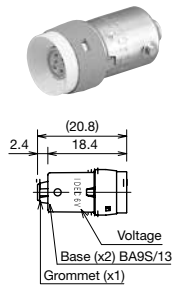
Shape	Material	Part No.	Package Quantity	Dimensions (mm)
Rubber Boot for Round Flush 	Rubber (transparent silicon rubber)	LW9Z-D61	1	<ul style="list-style-type: none"> • Degree of protection: IP65 • Panel thickness: 0.8 to 3.2 mm 
Rubber Boot for Round Extended 		LW9Z-D62	1	<ul style="list-style-type: none"> • Degree of protection: IP65 • Panel thickness: 0.8 to 3.2 mm 
Rubber Boot for Square Flush 		LW9Z-D71	1	<ul style="list-style-type: none"> • Degree of protection: IP65 • Panel thickness: 0.8 to 3.2 mm 

Flush Silhouette Switches LW Series Maintenance Parts


Maintenance Parts							
Shape	Material		Part No.	Ordering No.	Package Quantity	Color Code	
Lens (Round Flush) 	Polyarylate		LW9Z-L1②	LW9Z-L1②PN05	5	Specify a lens color code in place of ② in the Part No. A: amber C: clear G: green R: red S: blue Y: yellow	
Lens (Round Extended) 	Polyarylate		LW9Z-L12②	LW9Z-L12②PN05	5		
Lens (Square Flush) 	Polyarylate		LW9Z-L2②	LW9Z-L2②PN05	5		
Lens for Pilot Lights (Round Extended) 	Polyarylate		LW9Z-L15②	LW9Z-L15②PN05	5		Note: Use a clear lens for white illumination or for white (LW), PW (pure white), or black (LB) buttons.
Lens for Pilot Lights (Square Extended) 	Polyarylate		LW9Z-L25②	LW9Z-L25②PN05	5		
Illuminated Selector Knob Operator 	AS Plastic		LW9Z-FD6②	LW9Z-FD6②	1		Specify a lens color code in place of ② in the Part No. • A: amber, G: green, R: red, S: blue, W: white, Y: yellow Use W (white) handle for PW (pure white) illumination.
Marking Plate (Round) 	Acrylic	White	LW9Z-P1W	LW9Z-P1WPN05	5	• For round flush pushbuttons, round flush illuminated pushbuttons, and round extended pilot lights. Note: Used for black (LB) button only.	
		Black (Note)	LW9Z-P1B	LW9Z-P1BPN05			
Marking Plate (Square) 	Acrylic	White	LW9Z-P2W	LW9Z-P2WPN05	5	• For square flush pushbuttons, square flush illuminated pushbuttons, and square extended pilot lights. Note: Used for black (LB) button only.	
		Black	LW9Z-P2B	LW9Z-P2BPN05			
Marking Plate (Round Extended) 	Acrylic	White	LW9Z-P12W	LW9Z-P12WPN05	5	• For round extended pushbuttons and round extended illuminated pushbuttons. Note: Used for black (LB) button only.	
		Black	LW9Z-P12B	LW9Z-P12BPN05			
Locking Ring 	Plastic		LW9Z-LN	LW9Z-LNPN05	5	• Black	
Spare Key 	Metal (nickel-plated brass)		LW9Z-SK-500	LW9Z-SK-500PN2	2	• Standard – default key	
			LW9Z-SK-④	LW9Z-SK-④PN02		• Specify a key number 501 to 515 in place of ④ in the Part No.	

Flush Silhouette Switches LW Series Maintenance Parts

LED Lamps

Dimensions	Operating Voltage	Current Draw		Part No.	Ordering No.	Illumination Color Code	Package Quantity	Base	
		AC	DC						
	6V AC/ DC±10%	8 mA	7 mA (A, R, W) 5.5 mA (G, PW, S)	LSTD-6②	LSTD-6②	Specify a color code in place of ② in the Ordering No. A: amber G: green PW: pure white R: red S: blue W: white	1	BA9S/13	
					LSTD-6②PN10		10		
	12V AC/ DC±10%	11 mA	10 mA	LSTD-1②	LSTD-1②		1		
					LSTD-1②PN10		10		
	24V AC/ DC±10%	11 mA	10 mA	LSTD-2②	LSTD-2②		Use a pure white (PW) LED lamp with yellow (Y) lens.		1
					LSTD-2②PN10				10

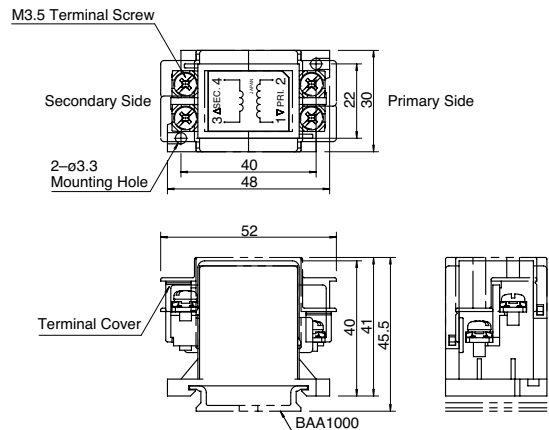
Din Rail Mount Transformer

Shape	Primary Voltage	Secondary Voltage	Part No.	Applicable Load
	100/110V AC	5.5V AC, 1W	TWR516	LSTD-6 LED lamp (6V AC/DC) or LS-6 incandescent lamp (6V AC/DC, 1W)
	115/120V AC		TWR5126	
	200/220V AC		TWR526	
	230/240V AC		TWR5246	
	380V AC		TWR5386	
	400/440V AC		TWR546	
	480V AC		TWR5486	

Specifications

Operating Voltage	100/110V AC, 115/120V AC, 200/220V AC, 230/240V AC, 380V AC, 400/440V AC, 480V AC (50/60Hz)
Current Draw	2.4 VA
Rated Insulation Voltage	600V
Insulation Resistance	100 MΩ minimum (500V DC megger)
Operating Temperature	-30 to +60°C (no freezing)
Operating Humidity	35 to 85% RH (no condensation)
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm
Shock Resistance	Damage limits: 1,000 m/s ²
Dielectric Strength	2,500V AC, 1 minute
Terminal Screw	M3.5
Applicable Wire	2 mm ² maximum, 2 wires maximum

Dimensions

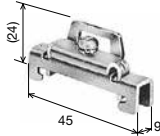


Accessories

DIN Rail

Part No.	Ordering No.	Length	Weight (approx.)	Material	Package Quantity
BAA1000	BAA1000PN10	1000 mm	200g	Aluminum	10
BAP1000	BAP1000PN10	1000 mm	320g	Steel	10

End Clip

Part No.	Ordering No.	Applicable DIN Rail	Weight (approx.)	Material	Package Quantity	Dimensions
BNL6	BNL6PN10	BAA1000 BAP1000	15g	Steel (Zinc-plated)	10	

• Use plastic end clip BC9Z-E/NS35N when using 400/440V AC primary voltage transformers.

Flush Silhouette Switches LW Series Instructions

Safety Precautions

- Turn off the power to the flush silhouette LW series control units before installation, removal, wiring, maintenance, and inspection. Failure to turn power off may cause electrical shocks or fire hazard.
- To avoid burning your hand, use the lamp holder tool when replacing lamps.
- For wiring, use wires of a proper size to meet voltage and current requirements. Solder correctly according to the instructions in "Wiring" and "Notes on Terminal Cover." Tighten the M3.5 terminal screws to a torque of 0.6 to 1.0 N·m. Failure to tighten terminal screws may cause overheating and fire.

Instructions

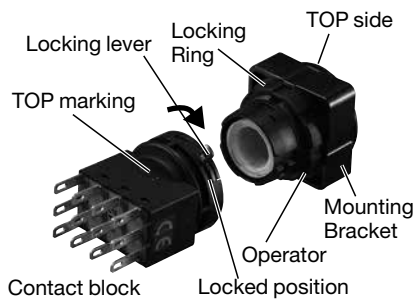
Panel Mounting

Removing the Contact Block

Turn the locking lever on the contact block in the direction opposite to the arrow on the housing. Then the contact can be removed.

Installing the Contact Block

Insert the contact block, with the TOP markings on the contact block and the operator placed in the same direction. Then lock the units, turning the locking lever in the direction of the arrow.



Panel Mounting

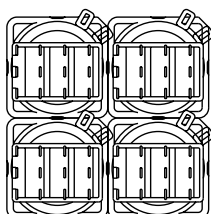
Remove the locking ring and mounting bracket from the operator. Insert the operator into the panel cut-out from the front. With the TOP marking of the operator in the correct direction, insert the mounting bracket from the back of the panel and tighten with a locking nut.

Notes on Mounting

Use the optional locking ring wrench (LW9Z-T1) to mount the operator into the panel. Tightening torque should not exceed 1.2 N·m. Do not use pliers. Excessive tightening will damage the locking ring.

Collective Mounting

As the locking lever can be turned easily from the rear of the units using a screwdriver, the contact blocks can be removed even when mounted collectively.

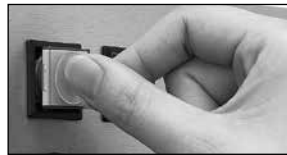


Replacement of the Lens and Marking Plate

Removal

1. To remove the lens unit, press the suction cup of the optional lens removal tool (MT-S01) onto the lens and pull the lens unit out.

[Removing the Lens Unit]



2. Remove the marking plate by pushing the lens from the rear to disengage the latches between the lens and the lens holder, using a screwdriver as shown below.

[Removing the Lens]

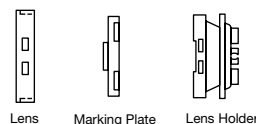


Note: The translucent filter in the lens holder cannot be removed because the filter is sealed to make the unit waterproof and oiltight.

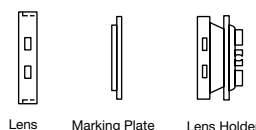
Installing

1. For round lenses, place the marking plate on the lens holder with the anti-rotation projection engaged and press the lens into the lens holder to engage the latches. For square lenses, insert the marking plate into the lens, and press the lens into the holder to engage the latches.
2. Make sure of the correct orientation of the marking plate.

Round Lens



• Square Lens



Marking Plate and Film

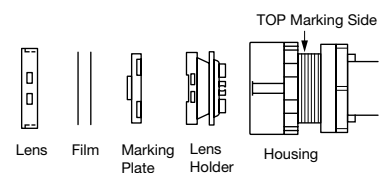
For LW series illuminated pushbuttons and pilot lights, legends and symbols can be engraved on marking plates, or printed film can be inserted under the lens for labelling purposes.

Marking Plate and Marking Film Size

Lens	Round Lens	Square Lens
Built-in Marking Plate		
Applicable Marking Film		
	<ul style="list-style-type: none"> • Engraving must be made on the engraving area within 0.5mm deep. • The marking plate is made of acrylic resin. • Two 0.1mm-thick films or one 0.2mm-thick film can be installed in the lens. • Marking film must be prepared separately. • Recommended marking film: Polyester 	

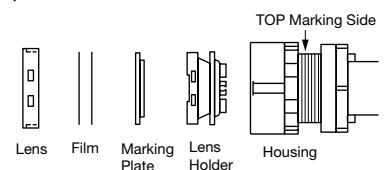
Insertion Order of Marking Plate and Film

• Round Lens



Note: Film must be prepared separately.

Square Lens



Note: Film must be prepared separately. Make sure of correct orientation of the marking plate.

Flush Silhouette Switches LW Series Instructions

Instructions

Replacement of Lamps

Lamps can be replaced using the lamp holder tool (OR-55) from the front of the panel, or by removing the contact block from the operator.

Removing the Lamp

To remove, slip the lamp holder tool onto the lamp head. Then push slightly, and turn the lamp holder tool counterclockwise.

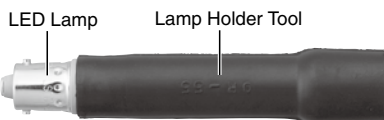


Lamp Holder Tool
OR-55

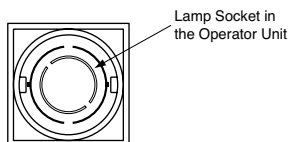


Installing the Lamp

1. To install, insert the lamp head into the lamp holder tool, and hold the lamp as shown in the figure below.



2. Insert the pins on the lamp base into the grooves in the lamp socket. Insert the lamp and turn it clockwise.



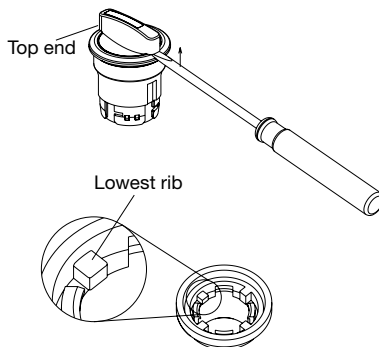
Removing the Illuminated Selector Switch Knob

Removing the Knob

Insert a flat screwdriver and remove the knob from the operator.

Installing the Knob

Press the knob into the operator. Align the recess on top end of the knob with the lowest rib on the operator.



Key Selector Switches

- When turning the key, do not pull the key out, otherwise, it may cause damage to the switches.

Pushbuttons/Illuminated Pushbuttons with Guards/Switch Guard with Lens

- Do not apply load on the guard in the direction other than the opening/closing the guard. Otherwise the hinge part will be damaged.

Wiring

1. Solder the terminals within 20W/5 sec or 260°C/3 sec without exerting external force to the terminals. While soldering, do not touch the soldering iron to the housing. While wiring, prevent tension from being applied to the terminals. Do not bend or raise the terminals, nor exert excessive force to terminals.
2. Use non-corrosive liquid flux.
3. Positive-lock connector and easy-lock connectors are applicable to tab terminals.
4. Tighten the terminal screw of the screw terminal to a torque of 0.6 to 1.0 N·m.

Notes on Terminal Cover

[Solder/Tab Terminal]

Insert the terminal cover into the contact block with the TOP markings on the contact block and the terminal cover in the same direction.

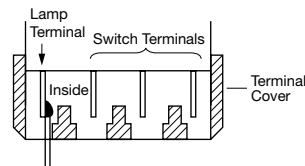
Note: When wiring, insert the lead wires into the terminal cover holes before

soldering.



Notes on Wiring

When installing a terminal cover onto the solder/tab terminal contact block, solder the inside of lamp terminal (toward the switch terminals) and wire.



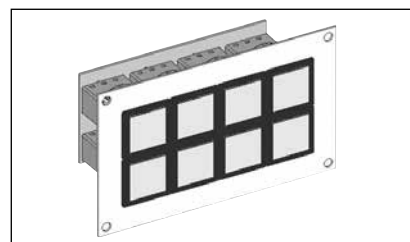
[Screw Terminal]

Install the terminal cover on the control unit before wiring.

Note 1: After wiring, terminal covers cannot be installed.

Note 2: When terminal covers are installed, ring type crimping terminals cannot be used. (For wiring, use fork terminals or lead wires directly.)

Single Board Mounting



Mounting the control units on a single PC board offers the following features.

1. Reduced installation labor, easy wiring, space saving, and standardization.
2. Since the contact blocks on the PC board can be removed easily using a locking lever, control units are easy to maintain.
3. Because the control units require no studs for fastening the control units to a PC board, special preparation of the panel is not needed.
4. For details on single board mounting, contact IDEC.

Specifications and other descriptions in this catalog are subject to change without notice.



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