

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.



Specifications and Ratings

Contact Ratings

Gold Contacts (switch base: blue)

Maximum Voltage			250V AC/DC		
Thermal Current			3A		
Operating Voltage			30V DC	125V AC	250V
Operating Current	AC 50/60Hz	Resistive Load	—	1A	0.5A
		Inductive Load	—	0.7A	0.5A
	DC	Resistive Load	1A	0.2A	—
		Inductive Load	0.7A	0.1A	—
Contact Material			Gold plated silver		

Minimum applicable load (reference value): 5V AC/DC, 1 mA
AC inductive load: PF = 0.6 to 0.7
DC inductive load: L/R = 7 ms max.
(Applicable range is subject to the operating conditions and load.)

Silver Contacts (switch base: black)

Maximum Voltage			250V AC/DC		
Thermal Current			5A		
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	—
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)	
	33g (LW6MS-3LC3)	

Specifications

Operating Temperature		–25 to +60°C (no freezing) Illuminated units: –25 to +50°C
Storage Temperature		–40 to +80°C
Operating Humidity		30 to 85% RH (no condensation)
Contact Resistance		50 mΩ maximum (initial value)
Insulation Resistance		100 MΩ minimum (500V DC megger)
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)		Momentary: 100,000 (Note 1) Maintained: 100,000 (Note 2) Selector switches: 100,000 (Note 2) Illuminated selector switches: 100,000 (Note 2) Key selector switches: 100,000 (Note 2)
Degree of Protection		IP65 (IEC 60529)
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 1,200 operations/h
Note 2: Switching frequency 900 operations/h

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

CW

LW-F

LB

LBW

UP

Flush Bezel