

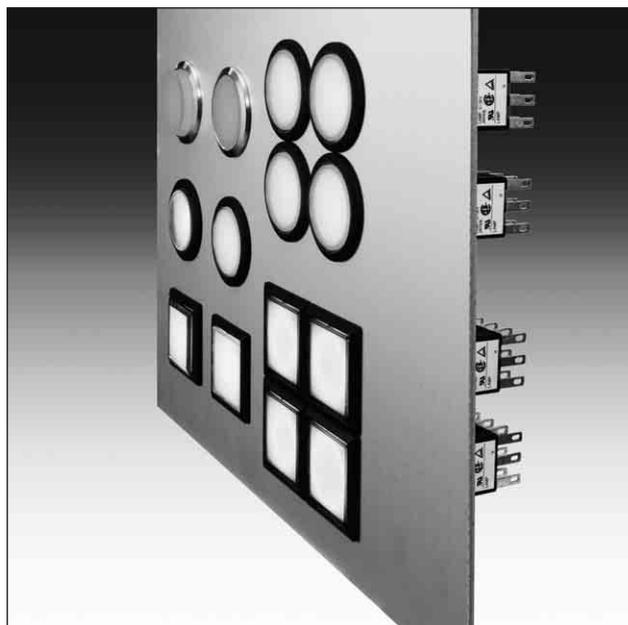
# Flush Silhouette LW Series Control Units

**Flush bezel projects only 2 mm from front of panel**

**ø28 round and 28-mm square black plastic bezels. Round metallic 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.
- Separate type control units 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.

Safety Standards		File No. or Organization
UL		UL Recognition File No. E55996
CSA		166730 (LR21451)
EN	EN60947-1 EN60947-5-1	 TÜV Rheinland
		 EC Low Voltage Directive



## Specifications and Ratings

### 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.

### 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)	
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	Between live part and ground: 2,500V AC, 1 minute
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm	
Shock Resistance	Damage limits: 1,000 m/s <sup>2</sup> (100G) Operating extremes: 100 m/s <sup>2</sup> (10G)	
Mechanical Life (minimum operations)	Momentary:	1,000,000
	Maintained:	500,000
	Selector switches:	250,000
	Key selector switches: Illuminated selector switches:	100,000 250,000
Electrical Life (minimum operations)	Momentary:	100,000 (*1)
	Maintained:	100,000 (*2)
	Selector switches:	100,000 (*2)
	Key selector switches:	100,000 (*2)
	Illuminated selector switches:	100,000 (*2)
	*1 Switching frequency 1,800 operations/h *2 Switching frequency 900 operations/h	
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	
Weight (approx.)	25g (LW6MB-M1C3) 22g (LW6B-M1C3) 20g (LW6MP-14) 18g (LW6P-14) 29g (LW6ML-M1C34) 26g (LW6L-M1C34)	