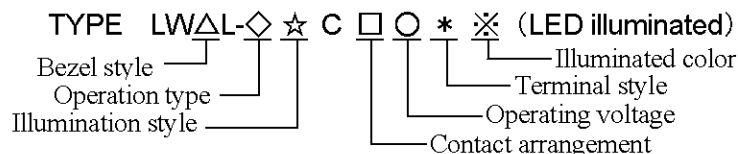


# SPECIFICATIONS

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 Approved by T.Iwami  
 Checked by Y.Kawase  
 Written by K.Hyashi

## LW SERIES FLUSH SILHOUETTE

### ILLUMINATED PUSHBUTTON SWITCH



#### 1. Applicable standard

JIS C 8201-1  
 JIS C 8201-5-1  
 EN60947-1, EN60947-5-1  
 UL508 (UL Recognition)  
 CSA C 22.2 NO.14 (c-UL Recognition)  
 GB/T14048.5(CCC Certification)

#### 2. Operating conditions

- (1) Ambient temperature -25 to +50°C (no freezing)
- (2) Storage temperature -40 to +80°C (no freezing)
- (3) Relative humidity 30 to 85% (no condensation)

#### 3. Ratings

##### 3. 1 Gold-clad cross-bar contact

- (1) Rated insulation voltage 250V
- (2) Rated thermal current 3A
- (3) Rated operating voltage and rated operating current

		Rated operating voltage			
		30V	125V	250V	
Rated operating current	A	Resistive load	—	1A	0.5A
	C	Inductive load	—	0.7A	0.5A
	D	Resistive load	1A	0.2A	—
	C	Inductive load	0.7A	0.1A	—

Note)AC inductive load : PF=0.6 to 0.7,DC inductive load : L/R=7msec

- (4) Minimum applicable load (reference value) 5V AC/DC · 1mA

##### 3. 2 Silver contact

- (1) Rated insulation voltage 250V
- (2) Thermal current 5A
- (3) Rated operating voltage and rated operating current

		Rated operating voltage			
		30V	125V	250V	
Rated operating current	A	Resistive load(AC-12)	—	3A	2A
	C	Inductive load(AC-15)	—	2A	1.5A
	D	Resistive load(DC-12)	2A	0.4A	—
	C	Inductive load(DC-13)	1A	0.2A	—

Note)AC inductive load : PF=0.6 to 0.7,DC inductive load : L/R=7msec

##### 3. 3 LED illuminated unit rating

- (1) Illuminated operating voltage — (○) 6V AC/DC(2), 12V AC/DC(3),24V AC/DC(4)

## 4. Constructions

- |                              |  |
|------------------------------|--|
| (1) Outside view             | See attached sheet   |
| (2) Bezel style— (△)         | Round flush(6), Square flush(7), Round flush with metal bezel(6M),<br>Round flush guard type (6G), Square flush guard type (7G), |
| (3) Operation type— (◇)      | Momentary (M), Alternate(A)  |
| (4) Degree of protection     | IP65   |
| (5) Contact material         |  |
| (a) Gold contact             | Gold plated silver   |
| (b) Silver contact           | Silver   |
| (6) Contact arrangement— (□) |  |
| (a) Gold contact             | 1C (1), 2C (2), 3C (3)   |
| (b) Silver contact           | 1C (5), 2C (6), 3C (7)   |
| (7) Illumination style— (☆)  | Flat(1), Dome(2) : Round and round flush with metal bezel only   |
| (8) Illuminated color— (※)   | Red (R), Green (G), Yellow(Y), Amber(A), Blue(S), Pure white (PW)<br>Note: Use a pure white LED for yellow(Y) illumination.      |
| (9) Applicable lamp          | LSRD(See attached sheet)   |
| (10) Lamp base               | BA9S   |
| (11) Terminal style— (*)     | Solder/tab terminal (#110)(blank)<br>PC board Terminal(V), Screw terminal(M); 2C type only                                       |
| (12) Panel thickness         | 0.8~3.2mm  |
| (13) Panel cut-out           | Round flush, Round flush with metal bezel: $\phi 25.3^{+0.2}_{-0.1}$ mm<br>Square flush: $\square 24.5^{+0.2}_{-0.1}$ mm         |

## 5. Characteristics

- |  |  |
|--|--|
| (1) Contact resistance                   | 50mΩ maximum (initial value)                   |
| (2) Insulation resistance                | 100MΩ minimum (measured with a 500V DC megger) |
| (3) Dielectric strength                  |  |
| (a) Between live part and ground         | 2,500V AC, 1minute                             |
| (b) Between terminals of different poles | 2,500V AC, 1minute                             |
| (c) Between terminals of the same pole   | 1,000V AC, 1minute                             |
| (4) Vibration resistance                 |  |
| (a) Operating extremes                   | Frequency 5 to 55Hz, Amplitude 0.5mm           |
| (b) Damage limits                        | Frequency 30Hz, Amplitude 1.5mm                |
| (5) Shock resistance                     |  |
| (a) Operating extremes                   | 100m/s <sup>2</sup>                            |
| (b) Damage limits                        | 1,000m/s <sup>2</sup>                          |

## 6. Life

- |                                   |   |
|-----------------------------------|---|
| (1) Mechanical life(without load) |   |
| (a) Momentary                     | 1,000,000 operation minimum   |
| (b) Alternate                     | 500,000 operation minimum   |
| (2) Electrical life (rated load)  |   |
| (a) Momentary                     | 100,000 operation minimum<br>(Operating frequency: 1,200 operations/hour maximum) |
| (b) Alternate                     | 100,000 operation minimum<br>(Operating frequency: 900 operations/hour maximum)   |