IDEC

SPECIFICATION

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FLUSH SILHOUETTE SWITCHES LBW SERIES PILOT LIGHTS

1. Applicable standard JIS C8201-5-1

IEC60947-5-1 EN60947-5-1

UL508 (UL Recognition)

CSA C22.2 NO.14 (CSA Approval)

2. Operating conditions

(1) Ambient temperature
 (2) Storage temperature
 (3) Relative humidity
 -25 to +55°C (no freezing)
 -30 to +80°C (no freezing)
 45 to 85% (no condensation)

(4) Altitude 2000m maximum

(5) Pollution degree 3

3. LED ratings

(1) Rated insulation voltage 30V

(2) Rated operating voltage $-(\updownarrow)$ See the table bellow

Voltage code (☆)	(1)	(3)	(4)
Rated operating voltage	5V DC±5%	12V AC/DC±10%	24V AC/DC±10%
Applicable LED unit	LB9Z-LED5💥	LB9Z-LED1※	LB9Z-LED2※
Rated operating current	R, A, W: 18mA G, S: 6mA PW:5mA	R, A, W: 18mA G, S: 6mA PW:5mA	R, A, W: 18mA G, S: 6mA PW:5mA

Illumination color (*X): Red (R), Green (G), Amber (A), White (W), Blue (S), Pure White (PW)

4. Constructions

(1) Outside view See attached sheet

(2) Degree of protection IP65

(3) Bezel style – (Δ) Round/black (6), Square/black (7),

Round/ metallic (6M), Square/ metallic (7M),

(4) Illumination color— (※)

(a) Colored lens type Red (R), Green (G), Yellow(Y), Amber (A), White (W), Blue (S), Pure White (PW)

(A pure white LED unit shall be used for yellow illumination.)

(b) White lens type Red (WR), Green (WG), Amber (WA), Blue (WS)

(5) Illumination style Flat

(6) Terminal style— (②) Solder/tab terminal (#110) (blank)

PC board terminal (V)

(7) Applicable wire 1.25mm² maximum

(8) Panel thickness 0.5 to 3.2 mm

(9) Panel cut-out Round: ϕ 22.3 $^{+0.2}$ mm

Square: $\square 22.5^{+0.2}$ mm

(10) Weight Approx. 14g (Square)

5. Characteristics

(1) Temperature rise Terminal: 30° C maximum, Lens surface: 30° C maximum (2) Insulation resistance $100M\Omega$ minimum (measured with a 500V DC megger) (3) Dielectric strength 2000V AC, 1minute (Between live and dead parts)

(4) Vibration resistance

(a) Operating extremes
 (b) Damage limits
 Frequency 5 to 55Hz, Amplitude 0.5mm
 Frequency 5 to 55Hz, Amplitude 0.5mm

(5) Shock resistance

(a) Operating extremes
 (b) Damage limits
 (6) LED life (reference value)
 1000 m/s²
 30,000 hour

(When, under 25 degrees environment, brightness reduces to 50% of initial values by the rating voltage, a rating electric current)

(7) Mounting nut torque tightening
 (8) Terminal strength
 (8) Mounting nut torque tightening
 (8) Terminal strength