



Main Feature

1. 1 N/O contact with a tungsten pre-make contact.
2. Dielectric Strength up to 5,000VAC.
3. 1 pole 10A, 1 NO contact (W pre-make contact + AgSnO₂). 80A / 20 ms inrush peak current.
4. In accordance with IEC 60335-1 and IEC 60730-1.

Contact Rating

Load Type	EZL (DM)
Rated Load (Resistive)	VDE & UL: 10A 250VA
	UL: 10A 30VDC
Rated Carrying Current	10A
Max. Allowable Voltage	AC 250V
	DC 30V
Max. Allowable Current	10A
Max. Allowable Power Force	2500W
	300W
Contact Material	R: Ag Alloy, L: W
Contact Capacity	Tungsten Load: 2500W/250VAC
	Inrush peak current (20ms): 80A
Contact Form	SPST

Application

Lamp Control, Audio Equipment, Domestic Appliance and Controlling Equipment...etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max. @ 1A, 6VDC
- Operate Time 8 mSec. Max.
- Release Time 3 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 5,000VAC at 50/60Hz for one minute.
 - Between Contacts 1,000VAC at 50/60Hz for one minute.
- Surge Strength 10,000V (between coil & contact 1.2x50mSec.)
- Insulation Resistance 100MΩ Min. at 500VDC.
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range -40~85°C
- Humidity Range 45~85% RH.
- Coil Temperature Rise 45°C Max.

- Vibration:
 - Endurance..... 10 to 55Hz dual amplitude width 1.5 mm
 - Error Operation 10 to 55Hz dual amplitude width 1.5mm.
- Shock:
 - Endurance 1,000 m/S² .
 - Error Operation..... 100 m/S² .
- Life Expectancy:
 - Electrical 5x10⁴ Operations at Rated Resistive Load.
 - 4x10⁴ Operations at Tungsten Load.
 - Mechanical..... 5x10⁶ Operations at No Load condition.
- Weight About 12.5 g.

Accessories & Sockets

- PI-50BE See Page 177
- PI-50BE/3 See Page 177
- PI-50-0 See Page 179

Safety Standard & File Number

- UL & C-UL.....E141060
- VDE.....40009648

Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
EZL DC Coil	6	80	75	Abt. 0.48	75% Maximum	7.5% Minimum	130%
	9	53.3	169				
	12	40	300				
	18	26.7	674				
	24	20	1200				
	48	10	4800				
	60	8	7500				

Ordering Information

EZL - SS - 1 12 D M

Contact Form: M: One Form A

Coil Type: D: DC Coil

Coil Voltage: 06: 6V, 09: 9V, 12: 12V, 18: 18V, 24: 24V, 48: 48V, 60: 60V

Number of Pole: 1: One Pole

Type of Sealing: SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type: EZL

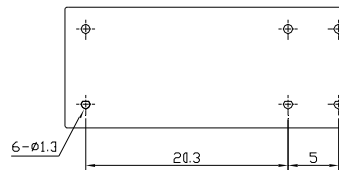
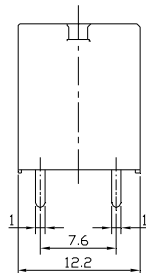
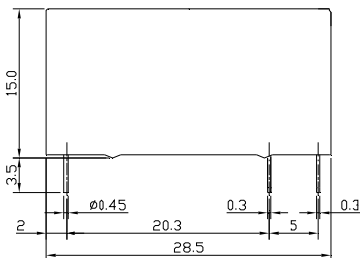
NOTE:

Contact Material: R: AgSnO₂, L: W

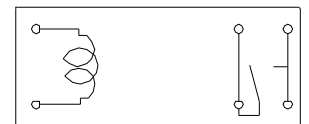
Classification

Model	EZL
Coil Sensitivity	DC Coil
Contact Form	1A
Flow Solder Type	EZL-SS-1□□DM
Plastic Sealed Type	EZL-SH-1□□DM

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)



P.C.B. Layout



BOTTOM VIEW