



Main Feature

1. EZL Series Relays are designed for switching capacity by 10A to comply with industrial control system use.
2. Slim type and low profile (28.5 x 12.2 x 15.0mm) is developed to provide end users with more flexibility in PC Board design.
3. 1 N/O contact with a tungsten pre-make contact
4. Proper insulation distance is equipped to ensure EZL will have a 5,000VAC dielectric strength between contact and coil.
5. Complete protective construction from dust and soldering flux is designed. If required, plastic epoxy resin sealed type is available for washing procedure.
6. 1 pole 10 A, 1 NO contact (W pre-make contact +AgSnO₂). 80A / 20 ms inrush peak current.
7. 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
- Vibration:
 - Endurance.....10 to 55Hz dual amplitude width 1.5 mm

- Error Operation10 to 55Hz dual amplitude width 1.5mm.
- Humidity Range 45~85% RH.
- Coil Temperature Rise 45°C Max.
- Shock:
 - Endurance 1,000 m/S².
 - Error Operation..... 100 m/S².
- Life Expectancy:
 - Electrical5x10⁴ Operations at Rated Resistive Load.
 - 4x10⁴ Operations at Tungsten Load.
 - Mechanical.....5x10⁶ Operations at No Load condition.
- WeightAbout 12.5 g.

Accessories & Sockets

- PI-50BE See Page 175
- PI-50BE/3 See Page 175
- PI-50-0 See Page 177

Safety Standard & Its 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: $+0.1\text{mm}$)

