

EZL SERIES

For General Control & Home Appliance

Application Lamp Control

Features Single Pole with Twin Contacts
Tungsten Contacts
8mm Creepage / Clearance
Able to Withstand 80A Inrush Current

Safety Standard VDE, C-UL
(Certification in Progress)

RoHS Compliant



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 (29.0 x 12.6 x 15.6 mm) is developed to provide end users with more flexibility in PCB design.
3. 1 N/O contact with a tungsten pre-make contact .
4. Proper insulation distance is equipped to ensure EZL a 5000VAC 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.

Contact Rating

Load Type	EZL (DM)
Rated Load (Resistive)	10A 250VAC
	10A 30VDC
Rated Carrying Current	10A
Max. Allowable Voltage	AC 250V
	DC 30V
Max. Allowable Current	10A
Max. Allowable Power Force	2500VA
	300W
Contact Material	R: Ag Alloy, L: W
Contact Capacity	Tungsten Load : 2500VA/250VAC
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 4,000VAC at 50/60Hz for one minute.
 - Between Contacts 1,000VAC at 50/60Hz for one minute.
- Surge Strength 10,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance 100M Min. at 500VDC.
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range -40~70 °C.
- Vibration:
 - Endurance 10 to 55Hz dual amplitude width 1.5 mm

Error Operation 10 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:
 - 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 151
- PI-50BE/3 See Page 151
- PI-50-0 See Page 152

Safety Standard & Its File Number

In Progress

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 flux proofed relays

SH RT wash tight relays

Type:

EZL

NOTE:

Contact Material: R: AgSnO₂, L: W

Classification

Model	EZL	
Coil Sensitivity	DC Coil	
Contact Form	1A	
Flux Proofed Relay	EZL-SS-1	DM
Wash Tight Relay	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: $+0.1\text{mm}$)

EZL-SS-SH

