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Please note that the number of variants of Goodsky relay part numbers means that it is not possible to maintain stock of every one. If you are researching to replace just one relay on a component, say as a spare part for domestic equipment, you may need to contact the manufacturer of that equipment. Stock of Goodsky relays is maintained in the UK for those exact parts where there is a continuous demand within the UK.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

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

EZL性能比較表 (Performance Comparison List)

品牌 Supplier		GOODSKY	TYCO	
型號 Item		EZL	V0429	
Coil Type		DCV	DCV	
接點部 Contact Specs	開關型式 Contact Configuration	1a, 1b	1a, 1b	
	接點材質 Contact Material	W/Fe + AgSnO2	W/Fe + AgSnO2	
	接點規格 Contact Rating	10A/250VAC	10A/250VAC	
	最大流通電流 Max. Allowable Current	10A	10A	
	最大承受電壓 Max. Allowable Voltage	250VAC/30VDC	250VAC/30VDC	
線圈部 Coil Specs	額定電壓 Nominal Voltage	6,9,12,18,24,48,60	6,9,12,18,24,48,60	
	動作電壓 Pull-In Voltage %	75%	75%	
	開放電壓 Drop-Out Voltage %	7.5%	7.5%	
	額定消耗功率 Power Consumption	0.48W	0.48W	
	最大承受電壓 Max. Allowable Voltage	130%	130%	
性能 Performance	接點阻抗 Contact Resistance	100mΩ	100mΩ	
	動作時間 Operate Time	8ms	8 ms	
	開放時間 Release Time	3ms	3 ms	
	最大開閉頻率 Max. On/Off Switching:	機械 Mechanical	300 /Min	300 /Min
		電氣 Electrical	6 /Min	6 /Min
	耐電壓(AC) Dielectric Strength	I/O	4000 V	4000 V
		O/O	1000 V	1000 V
	振動 Vibration	耐久 Endurance	100m/S ²	100m/S ²
		誤動作 Error Operation	1,000m/S ²	1,000m/S ²
	壽命 Life Expectancy	機械 Mechanical	5x10 ⁶	5x10 ⁶
		電氣 Electrical	5x10 ⁴	5x10 ⁴
	使用環境溫度 Temperature Range	-40~+85° C	-40~+85° C	
	使用環境溼度 Humidity Range	45~85%	45~85%	
重量 Weight	12.5g	12.5g		
安全規格 Safety Standard	UL	VDE、UL		
寸法 Dimension	外型尺寸 Dimension	29.0 x 12.6 x 15.6	29.0 x 12.6 x 15.6	
端腳外型 Terminal Type	直Pin(DIP)			
	90°Pin(SMD)			



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 100MΩ 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 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
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

