

Main Feature

1. 5mm slim size with 8A rated load.
2. 170mW low power consumption.
3. Dielectric Strength up to 4,000VAC and Surge Strength reached 6,000V.
4. 8mm creepage and clearance safety distance.
5. UL Class F insulation available.
6. Halogen Free series available.
7. Comply with RoHS and REACH regulations

Contact Rating

Load Type	LR (DM)	LR (D)
Rated Load (Resistive)	8A 277VAC	8A 277VAC
	8A 30VDC	8A 30VDC
Rated Carrying Current	8A	8A
Max. Allowable Voltage	AC 400V	AC 400V
	DC 30V	DC 30V
Max. Allowable Current	8A	8A
Max. Allowable Power Force	2000VA	2000VA
	240W	240W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT

Application

PLC, Factory Machine, Timer / Counter, Temperature Controller, Measuring Instrument, Testing Instrument, OA Equipments...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩ Max. @1A,6VDC
- Operate Time..... 8 mSec. Max.
- Release Time 4 mSec. Max.
- Dielectric Strength:
Between Coil & Contact.....4,000VAC at 50/60 Hz
for one minute
Between Contacts..... 1,000VAC at 50/60 Hz
for one minute
- Surge Strength..... 6,000V (between coil &
Contact 1.2 / 50μSec.)
- Insulation Resistance 100 MegaΩ Min. at
500VDC
- Max. On/Off Switching:
Electrical 6 Cycles per Minute
Mechanical..... 180 Cycles per Minute
- Temperature Range..... -40~+85°C
- Humidity Range 45~85% RH.
- Coil Temperature Rise..... 40°C Max.

- Vibration:
Endurance 10 to 55 Hz dual
Amplitude width 1.5mm
Error Operation 10 to 55 Hz dual
Amplitude width 1.0mm
- Shock:
Endurance 1,000 m/S²
Error Operation 100 m/S²
- Life Expectancy:
Mechanical 5x10⁶ Operations at No
Load condition
Electrical (NO: 5x10⁴, NC: 3x10⁴)
Operations at Rated
Resistive Load
- Weight About 6 g

Accessories & Sockets

- PLF.....See Page 176
- PLS.....See Page 176
- PL-05-0See Page 176
- Jumper.....See page 176

Safety Standard & File Number

- UL & C-UL..... E141060 & E175730
- VDE..... 40029874

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
LR	3	56.6	53	Abt. 0.17	70% Maximum	5% Minimum	150%
	4.5	37	121				
	5	34	147				
	6	28.3	211				
	9	18.8	476				
	12	14.2	847	Abt. 0.217			
	15	11.3	1,323				
	18	9.4	1,905				
	24	7.1	3,388				
	48	4.5	10,617				
	60	3.6	16,590				

Ordering Information

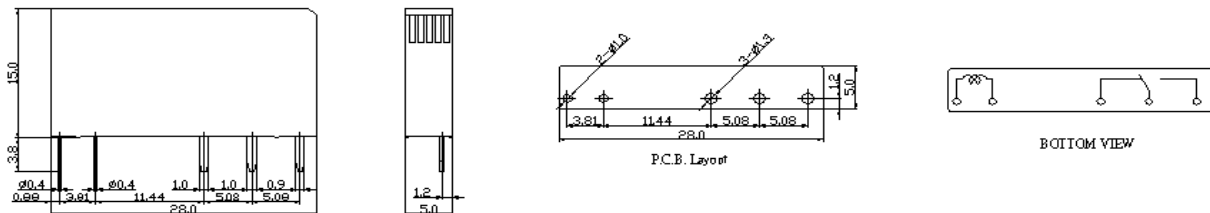
LR	- SH -	1	12	D	M	N	L	F		
									Insulation System:	Nil: Standard Class F: Class F
									Operation function:	Nil: Vertical Mounting L: Level Mounting
									Contact Material:	Nil: AgNi N: AgSnO2 S: AgSnO2 Gilded
									Contact Form:	Nil: One Form C M: One Form A
									Coil Type:	D: Standard DC Coil
									Coil Voltage:	03: 3V, 04: 4.5V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 15: 15V, 18: 18V, 24: 24V, 48: 48V
									Number of Pole:	1: One Pole
									Type of Sealing:	SS: RT II Flux Proofed SH: RT III Wash Tight
									Type:	LR

Classification

Model	LR			
Coil Type	Standard DC Coil			
Contact Form	1C		1A	
Flux Proofed	LR-SS-1□□D/F	LR-SS-1□□D-L/F	LR-SS-1□□DM/F	LR-SS-1□□DM-L/F
Wash Tight	LR-SH-1□□D/F	LR-SH-1□□D-L/F	LR-SH-1□□DM/F	LR-SH-1□□DM-L/F

Dimension (<5mm±0.2mm, ≥5mm±0.3mm, the tolerance of PCB thru hole: +0.1mm)

LR-SS/SH-D



LR-SS/SH-D-L

