

LR SERIES

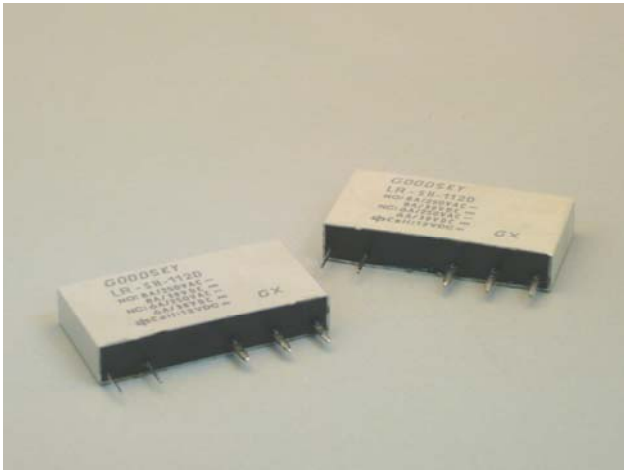
For General Control

Application Control Board on PLC / Timer / Temp Controller / Measuring Instruments

Features Slimmest Size in the World
28.0×5.0×15.0mm
Width = 5mm
8A, 250VAC

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

RoHS Compliant



Main Feature

1. Slim size(28.0 x 5.0 x 15.0mm).
2. Wide switching capacity 100mA/12VDC~6A/250VAC.
3. Sensitive coil 170mW.
4. 4KV coil-contact, 6/8mm creepage/clearance, NO version with 8/8mm creepage/clearance upon request.
5. Light weight approx.6g.
6. Reinforced insulation(protection class II)
7. Allow high function/packing density

Contact Rating

Load Type	LR (DM)	LR (D)
Rated Load (Resistive)	8A 250VAC 8A 30VDC	8A 250VAC 8A 30VDC
Rated Carrying Current	8A	8A
Max. Allowable Voltage	AC 400V DC 30V	AC 400V DC 30V
Max. Allowable Current	8A	8A
Max. Allowable Power Force	180W	180W
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 Resistance 6,000V (between coil & Contact 1.2/50μ Sec.)
- Insulation Resistance 100MΩ 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.
- Temperature Range..... 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 :
 - Mechanical5x10⁶ Operations at No Load condition.
 - Electrical(NO : 5x10⁴, NC : 3x10⁴ Operations at Rated Resistive Load.
- Contact Material Ag Alloy.
- Weight About 6 g.

Safety Standard & Its File Number

In Progress

Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
LR	5	34	147	Abt. 0.17	70% Maximum	5% Minimum	150%
	6	28.3	211				
	9	18.8	476				
	12	14.2	847				
	18	9.4	1905				
	24	7.1	3388				
	48	4.5	10617	Abt. 0.217			

Ordering Information

LR - SH - 1 12 D M N - L

Terminal Size:

NIL: Vertical Mounting

L: Horizontal Mounting

Contact Material:

Nil: AgNi 10%

N: AgSnO₂

S: AgSnO₂ Gilded

Contact Form:

Nil: One Form C

M: One Form A

Coil Type:

D: Standard DC Coil

Coil Voltage: 05: 5V, 06: 6V, 09: 9V, 12: 12V, 18: 18V, 24: 24V, 48: 48V

Number of Pole:

1: One Pole

Type of Sealing:

Nil: RT 0 Unclosed Relays

SS: RT Flux Proofed Relays

SH: RT Wash Tight Relays

Type:



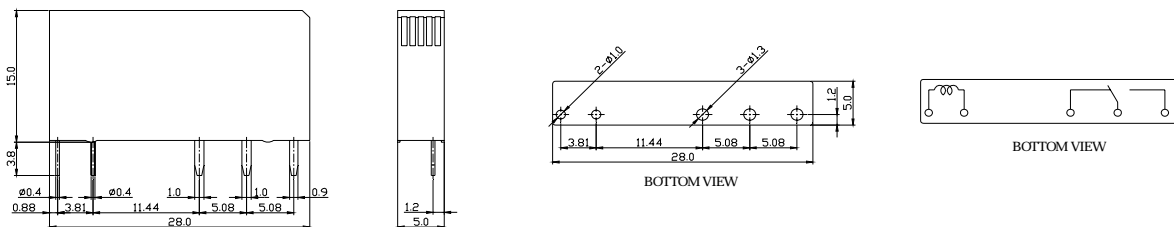
LR

Classification

Model	LR	
Terminal Size	Standard DC Coil	
Contact Form	1C	1A
Unclosed Relay	LR-1 D	LR-1 DM
Flux Proofed Relay	LR-SS-1 D	LR-SS-1 DM
Wash Tight Relay	LR-SH-1 D	LR-SH-1 DM

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

LR-SS/SH-DL



LR-SS/SH-DML

