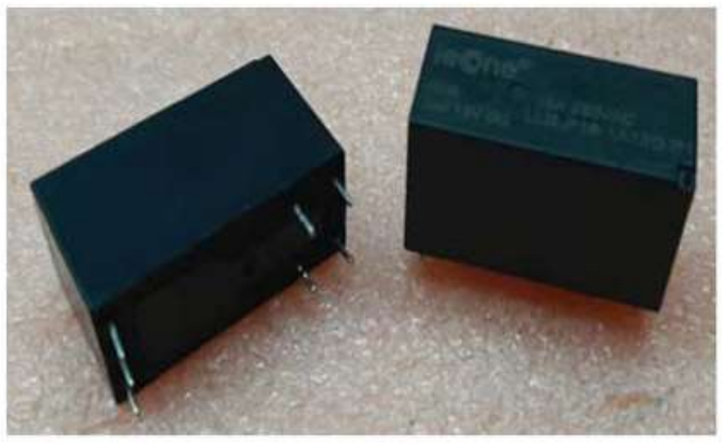
LLR-P16-1A12D-P1

LLR-P20-1A12D-P2

Latching Relay

PCB Latching Relay

16A: 1A, 20A: 1A 250VAC



LLR - P16 - 1A 12D - P1

Series Name:- LLR
PCB Terminal Type:- P
Contact rating:- 16A/20A
Contact Form:- 1A
12: 12VDC Coil Voltage (Available-5,6,12,24VDC)
D: Double coil; S: Single Coil
Coil Pins Polarity:- P:- Positive(Pin1+ve, Pin3-ve, Pin2+ve)
PCB Version:- 1: VER1 (16A); 2: VER2(20A)

## 1) Characteristic

- 16A/ 20A Contact switching capability.
- RoHS compliant
- 4KV dielectric strength betwwen contact and coil
- Size: 29x12.7x15.7mm.

## 2) Specification

| | | |
|---|---|---|
| Insulation resistance | | 1000MΩ (500VDC) |
| Dielectric Strength | Between Coil & Contacts | 4000 VAC (50/60Hz 1 Min) |
| | Between Open Contacts | 1000 VAC (50/60Hz 1 Min) |
| Operate Time | | 10msec. Max. |
| Release Time | | 10msec. Max. |
| Shock resistance | | 98m/S$^2$ |
| Vibration resistance | | 10~55Hz 1.5mm |
| Humidity | | 5%-85% RH |
| Ambient temperature | | -40~+70℃ |
| Temination | | PCB |
| Unit weight | | 12g |
| Construtions | | Sealed |

## 3) Contact Data

| | | |
|---|---|---|
| Contact form | 1A | |
| Contact material | $AgSnO_2$ | |
| Contact resistance | Max.: 50mΩ (1A 6VDC) | |
| Contact Rating | 16:16A/250VAC | 20: 20A 250VAC |
| Max. Switching Power | 4000vA (1 Min) | |
| Mechanical life | $1\times10^6$ | |
| Electrical life | $1x10^5$(16A) | $6x10^4$ (20A) |

## 4) Coil Data

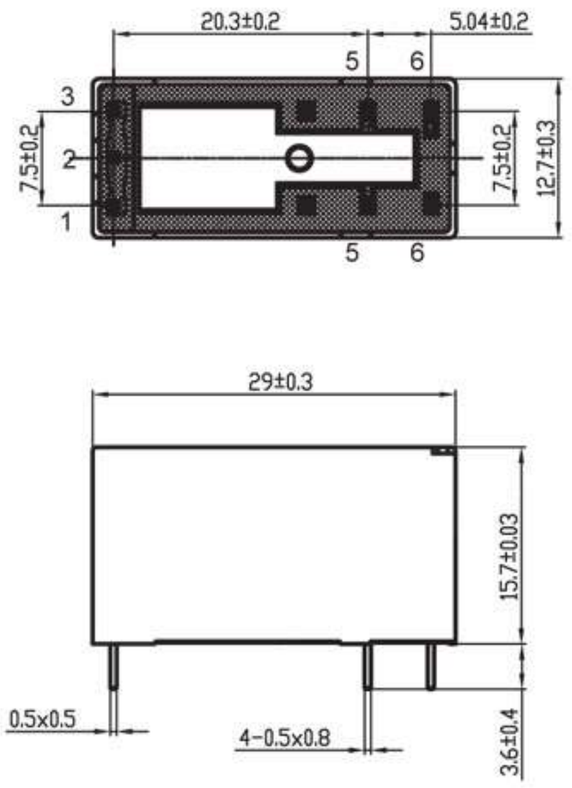
| Coil power | | Single coil: 0.64W Double coil: 1.28W | |
|---|---|---|---|
| (VDC) Rated Voltage | (VDC) Pick-up voltage | (ms) Pulse Duration | (Ω) Coil Resistance |
| Single coil | | | |
| 5 | ≤3.75 | ≥50 | 50±10% |
| 6 | ≤4.5 | ≥50 | 72±10% |
| 12 | ≤9 | ≥50 | 288±10% |
| 24 | ≤18 | ≥50 | 1152±10% |
| Double coil | | | |
| 5 | ≤3.75 | ≥50 | 2x25±10% |
| 6 | ≤4.5 | ≥50 | 2x36±10% |
| 12 | ≤9 | ≥50 | 2x144±10% |
| 24 | ≤18 | ≥50 | 2x576±10% |

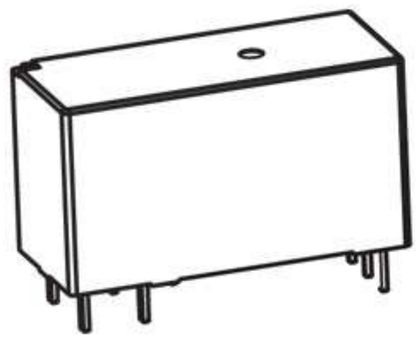
## 5) Typical Application

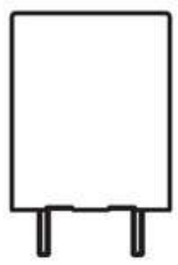
- Prepayment Energy Meter; AMR System, Compound Switch, Automatic control system, Smart Home, IOT etc.

## 6) Dimensions(mm)/ Circuit Diagram

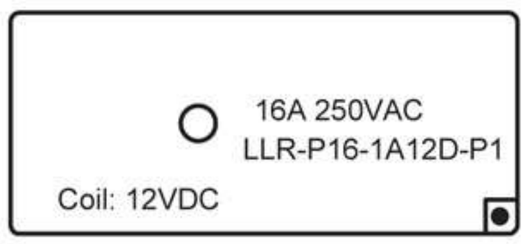
### Ver 1: 16A, 1A

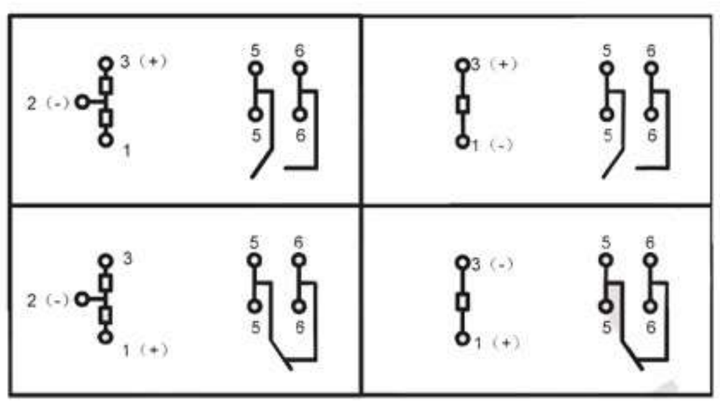


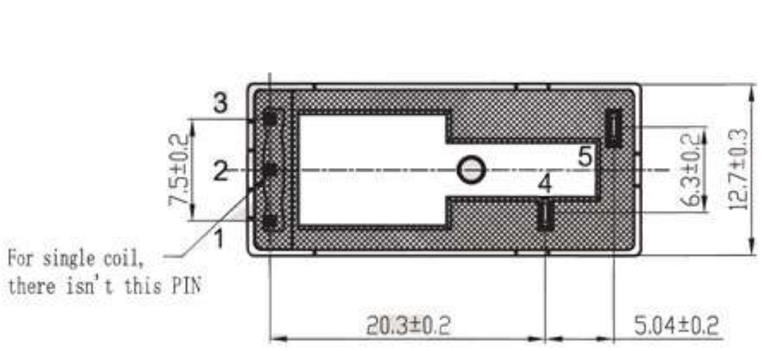


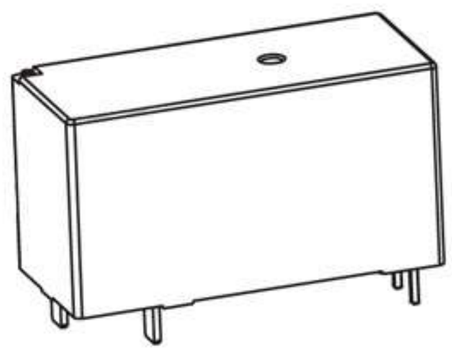
COIL CONNECTIONS
(Bottom Views)

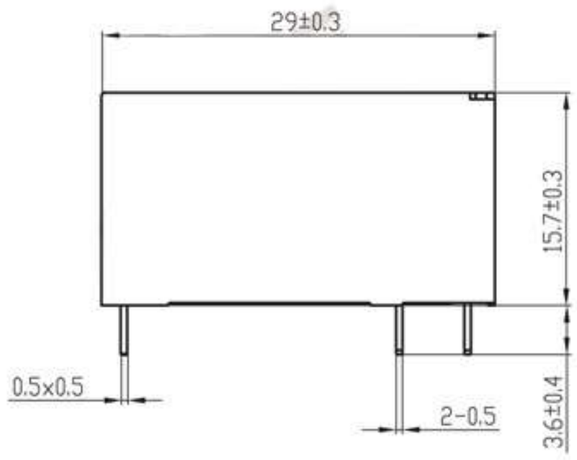


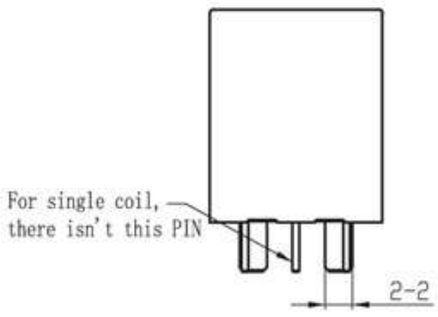



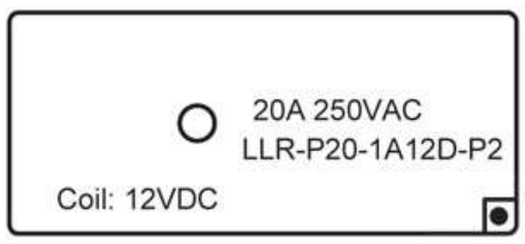

### Ver 2: 20A, 1A



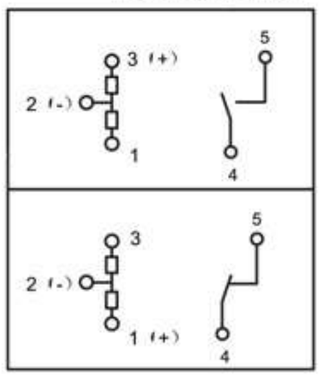






Double Coil Wiring Diagram
(bottom view)




Single Coil Wiring Diagram
(bottom view)