

# Latching Relay

# LLR-T-1-80-1A-12D-P-B-L



LLR - T - 1 - 80 - 1A - 12D - P - B - L

Series Name:- LLR  
 Contact Terminal Type:- T  
 Single Phase:- 1  
 Contact rating:- 80A  
 Contact Form:- 1A  
 Coil:- 12D:- 12VDC Double coil  
 Coil Pins Polarity:- P:- Positive(Pin1+ve, Pin3-ve, Pin2+ve)  
 Internal Code:- B  
 Contact Terminal Shape:- L Shape

## 1) Characteristic

- Small size, 60/80A switching capability.
- Low coil consumption, ultra-low temperature rise.
- Customized terminals like shunt, braided Cu-wire etc.
- Low contact resistance.
- Strong anti-shock and anti-vibration capability.
- Outline size: 38.0x17.0x33.0mm.

## 2) Specification

Insulation resistance		1000MΩ (500VDC)
Dielectric Strength	Between Coil & Contacts	4000VAC 1min
	Between Open Contacts	1500VAC 1min
Operate Time		20msec. Max.
Release Time		20msec. Max.
Shock resistance	Functional	100m/S <sup>2</sup> (10g)
	Destructive	1000m/S <sup>2</sup> (100g)
Vibration resistance		10~55Hz 1.5mm
Humidity		98%RH ,40°C
Ambient temperature		-40~ +70°C
Termination		Fast connection
Unit weight		45g
Constrution		Dust protected

## 3) Contact Data

Contact form	1A/1B
Contact material	Ag Alloy
Contact resistance	Max.: 2.0/1.5 mΩ
Contact Rating	60/80A 250VAC
Max. Switching Power	15000VA/20000VA
Mechanical life	5×10 <sup>5</sup>
Electrical life	1×10 <sup>4</sup>

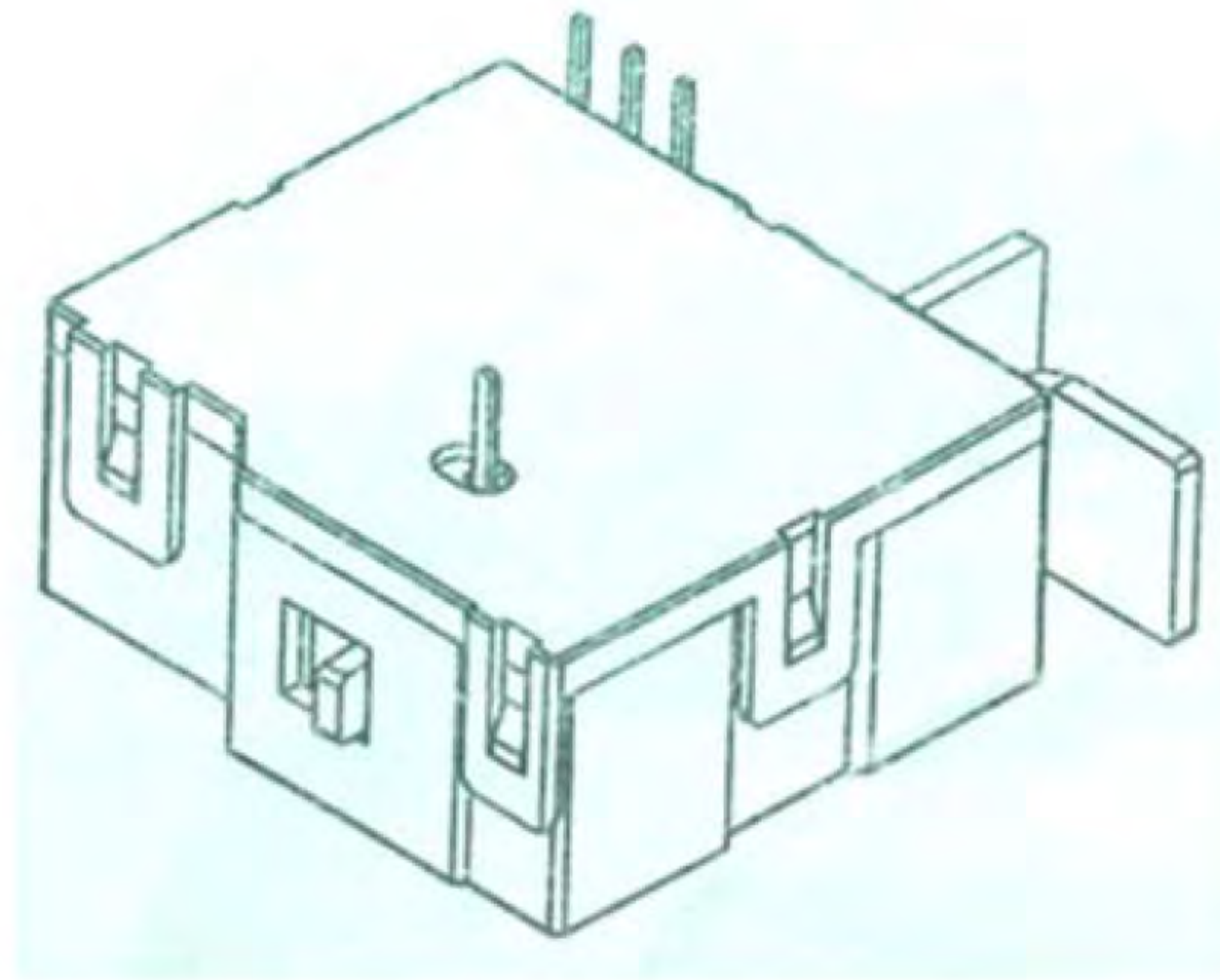
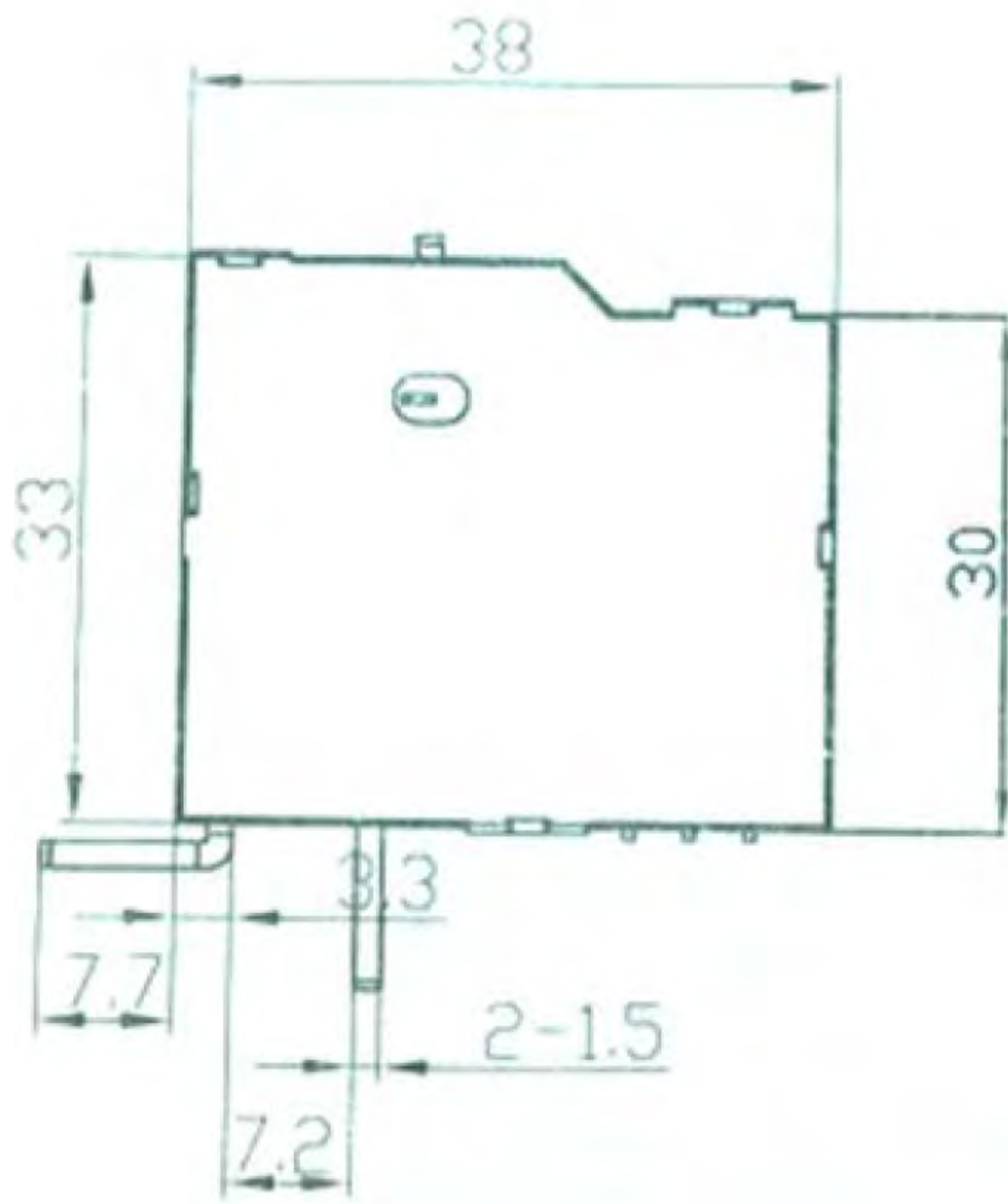
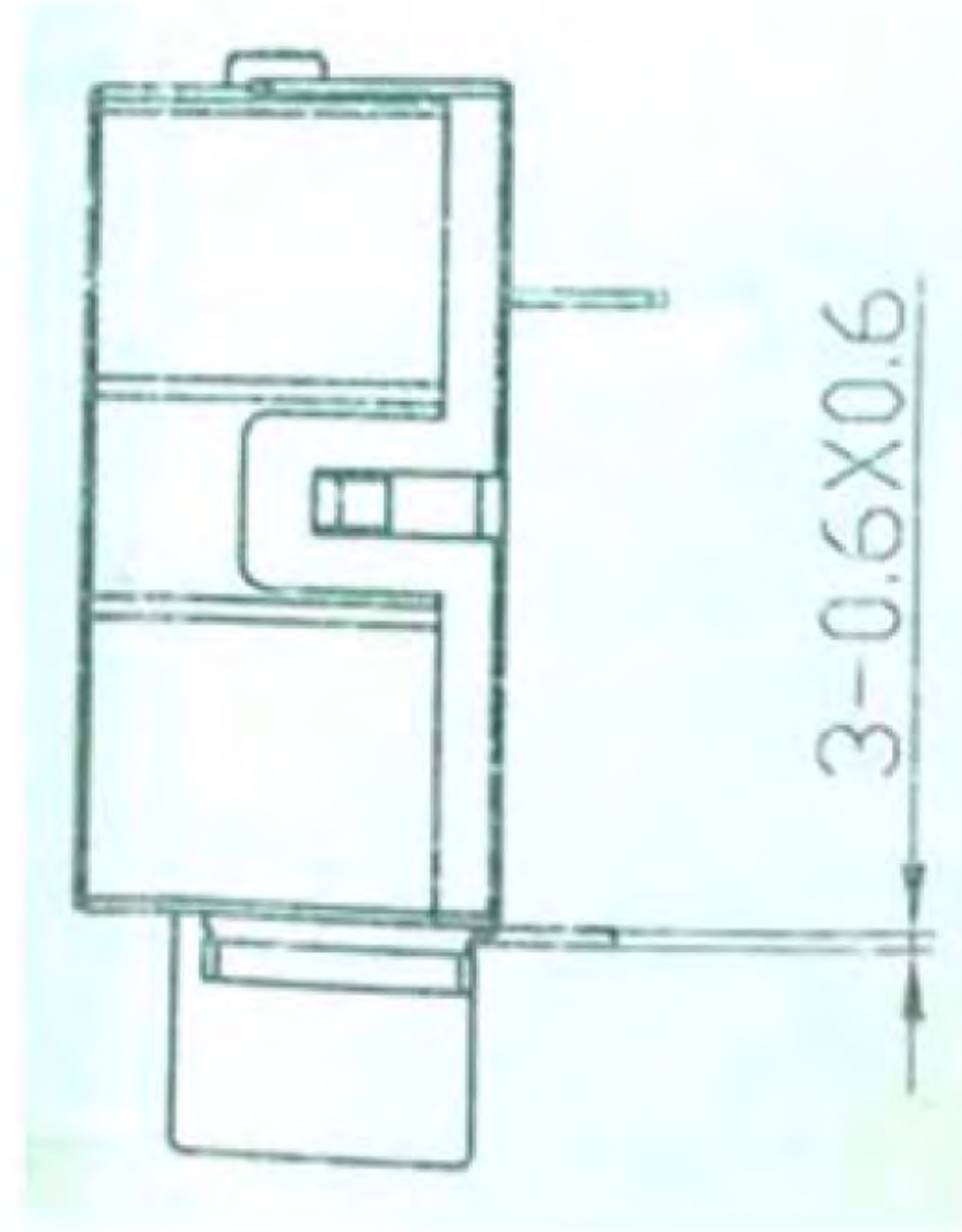
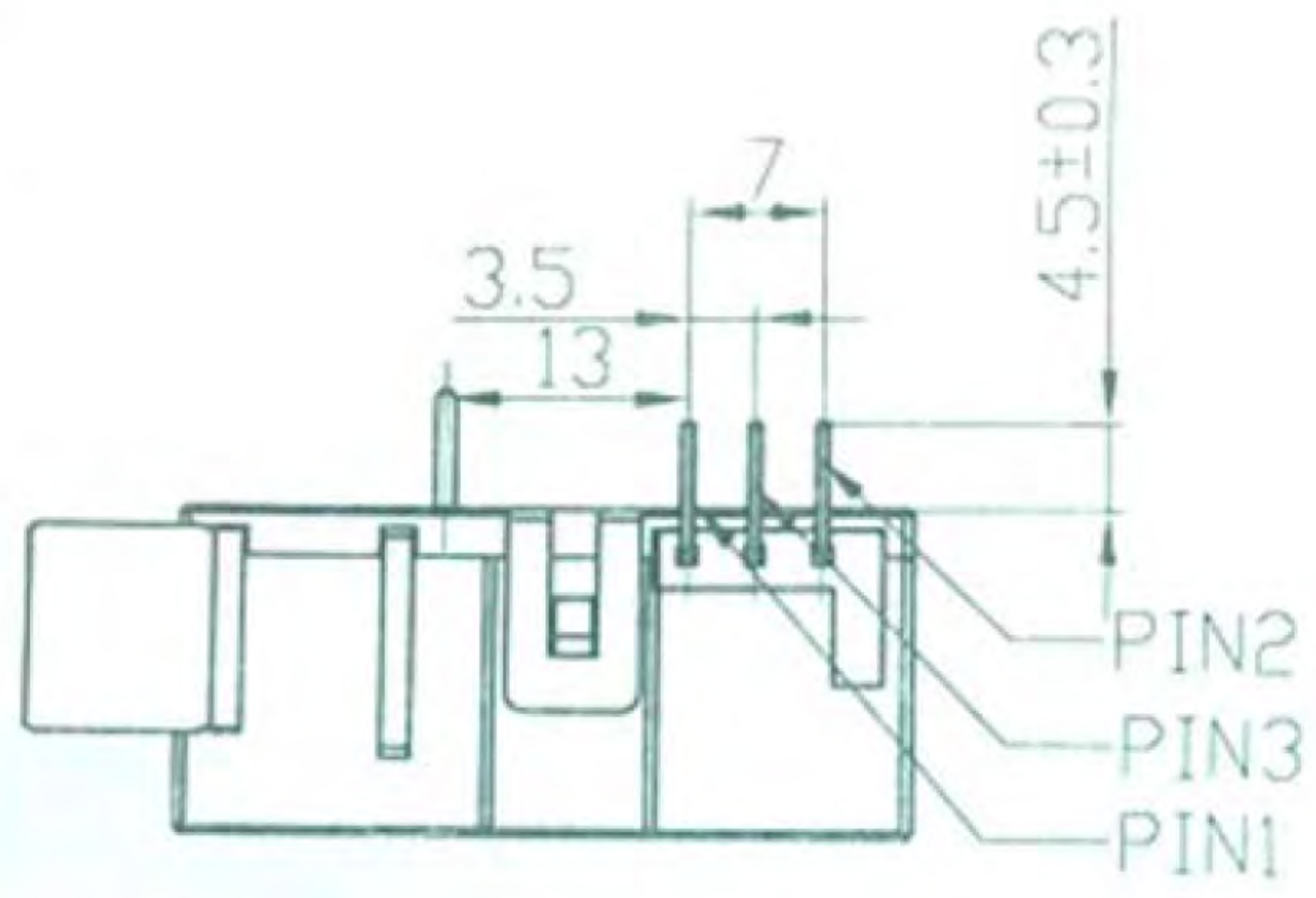
## 4) Coil Data

Coil power		Single coil: 1.5W Double coil: 3.0W	
(VDC) Rated Voltage	(VDC) Pick-up voltage	(ms) Pulse Duration	(Ω) Coil Resistance
Single coil			
9	6.75	50	54±10%
12	9	50	96±10%
24	18	50	384±10%
48	36	50	1536±10%
Double coil			
9	6.75	50	2x27±10%
12	9	50	2x48±10%
24	18	50	2x192±10%
48	36	50	2x768±10%

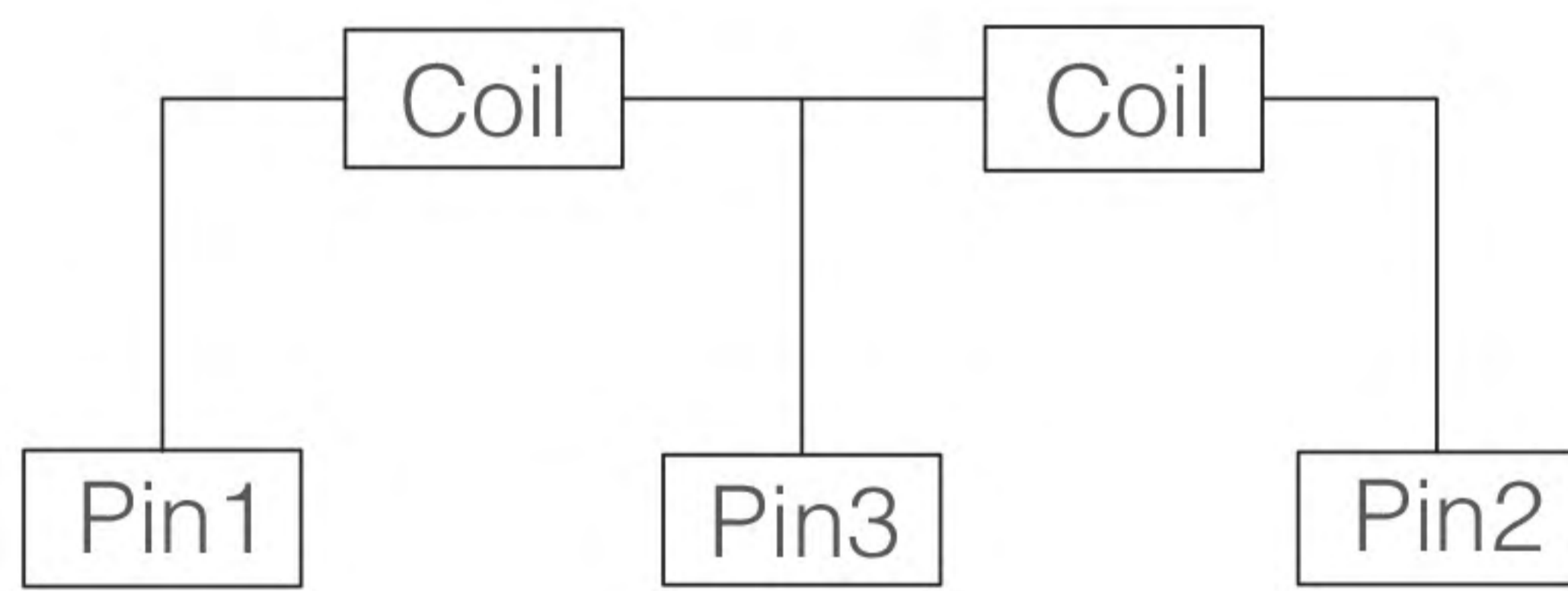
## 5) Typical Application

- Prepayment Energy Meter; AMR System, Compound Switch, Automatic Control System.

6) Dimensions(mm)/ Circuit Diagram



Double coil



+ve operate -ve  
-ve release +ve