### **Features**

- 90A switching capability
- Single coil and double coil are all available
- Can customize the External attachments like manganese-copper shunt,mutual inductor according to the customers' requirements.
- Breakdown voltage (between contact and coil):4KV
- Meet the standard of IEC62055-31:2005 and UC2
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (38.0×30.0×16.5) mm
- Main application: smart meter, compound switch



### CHARACTERISTICS

Specifications	Item				
	Contact arra	ngement	1A、1B		
Contact Data	Contact resis	stance(initial)	2mΩ(6VDC 1A)		
	Contact mate	erial	AgSnO <sub>2</sub>		
	Rated load(F	Resistance load)	90A 250VAC		
	Max.switchir	ng voltage	277VAC		
Rated value	Max.switchir	ng current	90A		
	Max.switchir	ng capacity	22500VA		
	Min.allowing	load	1		
	Insulation re	sistance(initial)	1000MΩ(500VDC)		
	Dielectric	Between open contacts	2000VAC,1min		
Electrical	strength	Between coil&contacts	4000VAC,1min		
performance	(initial)				
	Operate time	)	≤20ms		
	Release time	e	≤20ms		
Mechanical	Shock	Functional	98m/s <sup>2</sup> (10g)		
	resistance	Destructive	980m/s <sup>2</sup> (100g)		
performance	Vibration resistance		10Hz∼55Hz 1.5mm DA		
Endurance	Mechanical		1×10⁵ops		
Endurance	Electrical		90A 250VAC	1×10 <sup>4</sup> ops (ON/OFF=1s/9s)	
Operate	Ambient temperature		-40°C∼85°C		
condition	Humidity		5% to 85%		
Termination		INT'L PCB+Screw type(XB)			
Unit weight		Approx.50g(Without attachment)			
Construction		Flux proofed			

## ■ COIL DATA(23°C)

### ■ Single coil latching

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current(±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	312.5mA	16.6Ω	1500mW	150%Nominal Voltage
DC 6V	≤4.50	≤4.50	250mA	24Ω		
DC 9V	≤6.75	≤6.75	166.7mA	54Ω		
DC 12V	≤9.00	≤9.00	125mA	96Ω		
DC 24V	≤18.00	≤18.00	62.5mA	384Ω		

### ■ Double coils latching

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current(±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	625/625mA	8.3/8.3Ω	3000mW	150%Nominal Voltage
DC 6V	≤4.50	≤4.50	500/500mA	12/12Ω		
DC 9V	≤6.75	≤6.75	333.3/333.3mA	27/27Ω		
DC 12V	≤9.00	≤9.00	250/250mA	48/48Ω		
DC 24V	≤18.00	≤18.00	125/125mA	192/192Ω		

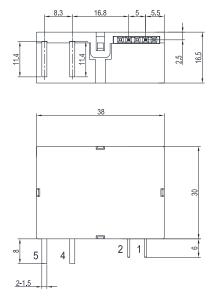
## ORDERING INFORMATION

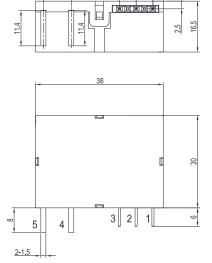
-XXX W21L -1B Т -L1 R DC6V ① **Type** ② Contact arrangement:1A=1 open contacts、 1B=1 close contacts ③ PCB mounting: 1=A type、2=B type 4 Contact material: T=AgSnO<sub>2</sub> ⑤ Coil type: L1=coil latching、L2=coils latching ⑥ Operation polarity: Nil=standard polarity R=reversed polarity 7 Customer special code: numbers or letters denote customer's requirements ® Coil specification: DC5/6/9/12/24V

# OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit: mm)

A type

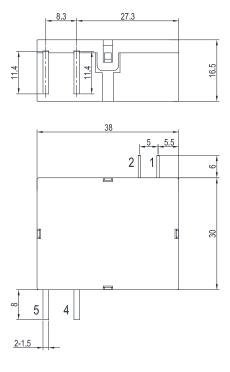
## **Outline Dimensions**

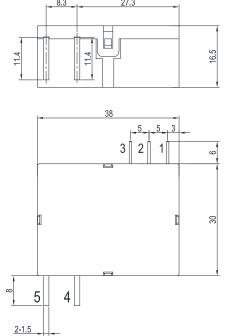




B type

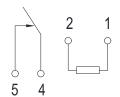
**Outline Dimensions** 



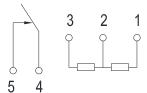


# Wiring Diagram

Single coil latching



Double coils latching



- Notes:(1) In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension >1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.
  - (2) The tolerance without indicating for PCB layout is always ±0.1mm.

## SAFETY APPROVAL RATINGS

Approval	File No.	Contact	Contact	Approved ratings		ings
		arrangement	material			
UL/C-UL	1	1	1		1	
TUV	R 50376640	1A、1B	AgSnO <sub>2</sub>	90A	250VAC	70℃
CQC	1	1	1		1	

### NOTICE

- ① With the consideration of shock risen from transit and relay mounting, relay's initial state might be changed, please impose pulse voltage to reset the relay before using(rated coil voltage, impulse width≥5 times operation time.
- ② The specification is for reference only, specifications subject to change without notice.