Features

- 50A contact switching capability
- We can provide the contact gap is ≥ 1.5mm
- Contact arrangement:1A, 1B, 1C
- Surge voltage(1.2/50µs):between contact and coil 12KV
- Contact on and off can be controlled by manual control switch
- UL insulation system:Class F
- Environmental friendly product(RoHS compliant)
- Outline Dimensions:(39.0×15×30.2)mm
- Main application:Smart home,Lighting control



■ CHARACTERISTICS

Specifications	Item						
Contact Data	Contact arrangement		1A, 1B	1C			
	Contact resistance(initial)		≤20mΩ(6VDC 1A)				
	Contact mat	erial	AgSnO ₂				
Rated value	Rated load(Resistance load)		50A 250VAC	40A 250VAC			
	Max.switching voltage		440VAC	440VAC			
	Max.switchir	ng current	50A	40A			
	Max.switchir	ng capacity	12500VA	10000VA			
	Insulation re	sistance(initial)	1000MΩ(500VDC)				
Electrical	Dielectric	Between open contacts	2000VAC,1min	1500VAC,1min			
Electrical performance	strength (initial)	Between coil&contacts	4000VAC 1min				
	Closing time		≤20ms				
	Opening tim	е	≤20ms				
Surge Voltage (1.2/50µs)	Between coil&contacts		12KV				
	Shock	Functional	98m/s ² (10g)				
Mechanical	resistance	Destructive	980m/s ² (100g)				
performance	Vibration resistance		10Hz~55Hz 1.5mm DA				
	Mechanical		1×10 ⁶ ops				
Endurance	Electrical	ON/OFF=1S/9S	50A 250VAC	5×10^4 ops(COS ϕ =1)			
	Electrical	ON/OFF=3S/3S	40A 250VAC	3×10^4 ops(COS ϕ =1)			
Operate	Ambient temperature		-40°C~85°C				
condition	Humidity		5%~85%RH				
Termination			PCB type				
Unit weight			Approx.31g				
Construction			Plastic sealed,Flux proofed				

■ COIL DATA(23°C)

■ Single coil latching

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	May Voltago	
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage	
DC 6V	≤4.50	≤4.50	0.17A	36Ω		DC 9V	
DC 9V	≤6.75	≤6.75	0.11A	81Ω	1.0 W	DC 13.5V	
DC 12V	≤9.00	≤9.00	0.08A	144Ω	1.0 VV	DC 18V	
DC 24V	≤18.00	≤18.00	0.04A	576Ω		DC 36V	

■ Double coils latching

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal	Max Voltage	
Voltage	VDC	VDC	VDC (±10%)		(±10%) Power		
DC 6V	≤4.50	≤4.50	0.33/0.33A	18/18Ω		DC 9V	
DC 9V	≤6.75	≤6.75	0.22/0.22A	40.5/40.5Ω	2.0W	DC 13.5V	
DC 12V	≤9.00	≤9.00 ≤9.00 0.17/0.17A 72/72Ω		72/72Ω	2.000	DC 18V	
DC 24V	≤18.00	≤18.00	0.083/0.083A	288/288Ω		DC 36V	

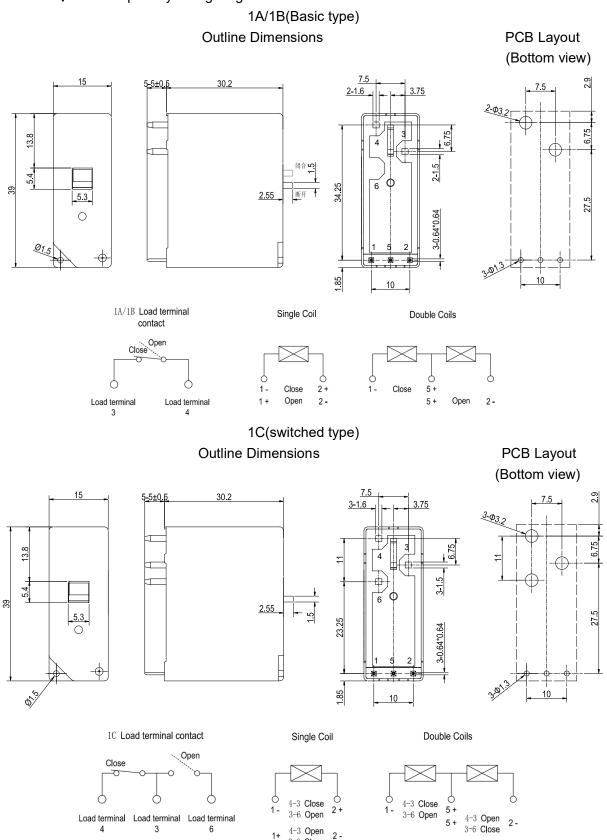
■ ORDERING INFORMATION

	W30L	-1B	S	Т	M	F	-L1	R	-XXX	DC6\
① Type										
② Contact arrangement:1A=1 ope	en contacts	;								
1B=1 clos										
1C=1 switched contacts										
③ Construction(1):Nil=Flux proofed										
S=Plastic sealed(No hand control switch)										
④ Contact material:T=AgSnO₂										
⑤ Control type:Nil=No hand contr										
M=Within Manual Switch(Only flux										
⑥ Insulation standard:Nil=Blank F=Class F										
⑦ Coil type:L1=1 coil latching ,L	2=2 coils la	atching								
Polarity:Nil=standard polarity	R=reverse	ed polarit	/							
Oustomer special code:number	ers or letters	denote	custon	ner's red	quiremer	nts				

- (II) Coil specification:DC6/9/12/24V
- (1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.

■ WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

Outline Dimensions, Standard polarity wiring diagram



Remark:(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 ±0.5mm.

(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ NOTICE

- ① For the state of latching relay as delivered, If the customer has no special requirements, we default to the closed state before delivery, but due to transportation or relay installation by shock and other factors may change the state, so please reset it to the closed or open state as needed when using;
- ② In order to maintain the initial performance parameters of the relay, please be careful not to drop the product or be affected by external force;
- ③ In order to maintain "opening" or "closing" status,energized voltage applied across the coil should reach the rated voltage,it is recommended that the actual driving voltage be 1~1.5 times the rated voltage, Pulse width ≥50ms,and do not energize to "opening" coil and "closing" coil simultaneously,long energized time(more than 1 min) should also be avoided;
- 4 The soldering temperature of load extraction terminal with copper is 260 $^{\circ}$ C $\pm 5^{\circ}$ C, soldering time is 10S \pm 1S
- (5) Latching relays are customized products, the above cases are only for reference. If you have any questions, please contact Fanhar for more technical support;
- 6 The specification is for reference only. Specifications subject to change without notice.