W30L

Features

- 50A contact switching capability
- We can provide the contact gap is \geq 1.5mm
- Magnetic Blowout Latching Relay is available
- Surge voltage(1.2/50µs):between contact and coil 12KV
- \bullet Contact on and off can be controlled by manual control switch
- UL insulation system:Class F
- Environmental friendly product(RoHS compliant)
- Outline Dimensions:W30L: (39.0×15×30.2)mm
 - W30LD: (39.0×21.4×30.2)mm
- Main application:Smart home,Lighting control

CHARACTERISTICS









CHARACTERISTICS

Operate	Ambient temperature	-40°C~85°C				
condition	Humidity	5%~85%RH				
Termination		PCB type				
Unit weight		Approx.40g				
Construction		Plastic sealed,Flux proofed				

■ COIL DATA(23°C)

■ Single coil latching

Nominal	Closing Voltage	Opening Voltage	Rated Current	Coil Resistance	Nominal		
Voltage	VDC	VDC	(±10%)	%) (±10%)		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 Valtaga	
Voltage	VDC	VDC	(±10%)	o) (±10%)		Max Voltage	
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	0.17/0.17A	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	М	F	-L1	R	-XXX	DC6\
① Type:W30L=AC Load、										
W30LD=DC Load										
② Contact arrangement:1A=1 open contacts、1B=1 close contacts										
1C=1 swit	tched contac	ts (Only for W30L)								
③ Construction(1):Nil=Flux proofed、S=Plastic sealed(No hand control switch)										
④ Contact material:T=AgSnO ₂										
⑤ Control type:Nil=No hand control switch、M=Within Manual Switch(Only flux proofed)										
⑥ Insulation standard:Nil=Blank F=Class F										
⑦ Coil type:L1=1 coil latching ,L2=2 coils latching										
8 Polarity:Nil=standard polarity R=reversed polarity										
④ Customer special code:number	ers or letters	denote customer's requ	lirements							

10 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 W30L



Fanhar Electric Latching Relay ISO9001、ISO14001 Certified Company

WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

Outline Dimensions, Standard polarity wiring diagram W30LD



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 ±0.3mm;outline dimension≥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.