

Features

- 10A switching capability
- The contact on and off can be controlled by the hand control switch
- Products with operating temperature of 105°C are available
- Can provide the product meet the standard of IEC60335-1
- UL insulation system:Class F
- Environment-friendly product(RoHS compliant)
- Outline Dimensions:(29.0×12.7×16.0)mm
- Main application:Industrial Control



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		2A, 2B, 2C
	Contact resistance(initial)		≤100mΩ(6VDC 1A)
	Contact material		AgSnO ₂
Rated value	Rated load(Resistance load)		8A 250VAC
	Max.switching voltage		277VAC
	Max.switching current		10A
	Max.switching capacity		2000VA
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1000VAC, 1min
		Between contact groups	2500VAC, 1min
		Between coil&contacts	3000VAC, 1min
	Set time		≤15ms
Reset time		≤15ms	
Mechanical performance	Shock resistance	Functional	98m/s ² (10G)
		Destructive	980m/s ² (100G)
Vibration resistance		10Hz~55Hz 1.5mm DA	
Endurance	Mechanical		1×10 ⁶ ops
	Electrical(Room temperature)		8A 250VAC 5×10 ⁴ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40°C~85°C/105°C
	Humidity		5% to 90%
Termination			PCB
Unit weight			Approx.15g
Construction			Plastic sealed,Flux proofed

■ COIL DATA(23°C)

■ Single coil latching

Nominal Voltage	Set Voltage VDC	Reset Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	100mA	50Ω	500mW	DC 7.5V
DC 6V	≤4.50	≤4.50	83.3mA	72Ω		DC 9V
DC 9V	≤6.75	≤6.75	55.6mA	162Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	41.7mA	288Ω		DC 18V
DC 24V	≤18.00	≤18.00	20.8mA	1152Ω		DC 36V
DC 36V	≤27.00	≤27.00	13.9mA	2592Ω		DC 54V
DC 48V	≤36.00	≤36.00	10.4mA	4608Ω		DC 72V

■ Double coils latching

Nominal Voltage	Set Voltage VDC	Reset Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	200/200mA	25/25Ω	1000mW	DC 7.5V
DC 6V	≤4.50	≤4.50	166.7/166.7mA	36/36Ω		DC 9V
DC 9V	≤6.75	≤6.75	111.1/111.1mA	81/81Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	83.3/83.3mA	144/144Ω		DC 18V
DC 24V	≤18.00	≤18.00	41.7/41.7mA	576/576Ω		DC 36V
DC 36V	≤27.00	≤27.00	27.8/27.8mA	1296/1296Ω		DC 54V
DC 48V	≤36.00	≤36.00	20.8/20.8mA	2304/2304Ω		DC 72V

■ ORDERING INFORMATION

FH15L -2C S T M -L1 R -XXX DC12V

① Type

② Contact arrangement:2A=2open contacts

2B=2close contacts

2C=2switched contacts

③ Construction:Nil(1)=Flux proofed,S=Plastic sealed

④ Contact material:T=AgSnO₂

⑤ Control type: Nil=No hand control switch,

M=with hand control switch(No Plastic sealed type)

⑥ Coil type:L1=coil latching, L2=coils latching

⑦ Operation polarity:Nil=Standard polarity R=Reversed polarity

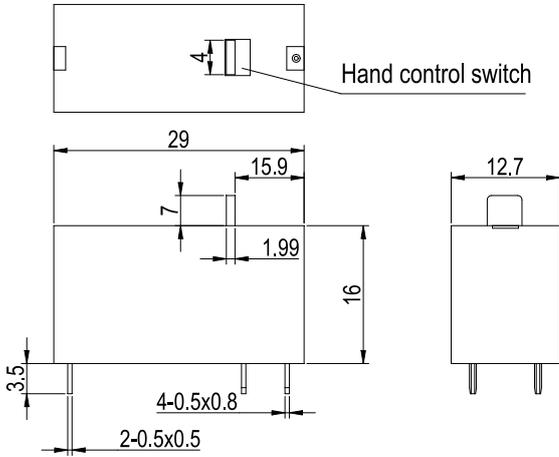
⑧ Customer special code:numbers or letters denote customer's requirements

⑨ Coil specification:DC5/6/9/12/24/36/48V

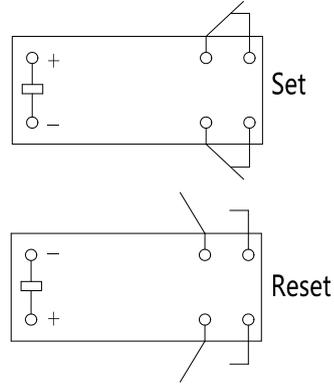
- (1) When used in clean environment(excluding H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S,SO₂,NO₂,dust and other pollutants), it is recommended to choose the Plastic sealed.

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

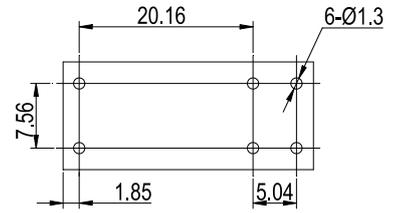
2A/2B Outline Dimensions
(Single coil latching)



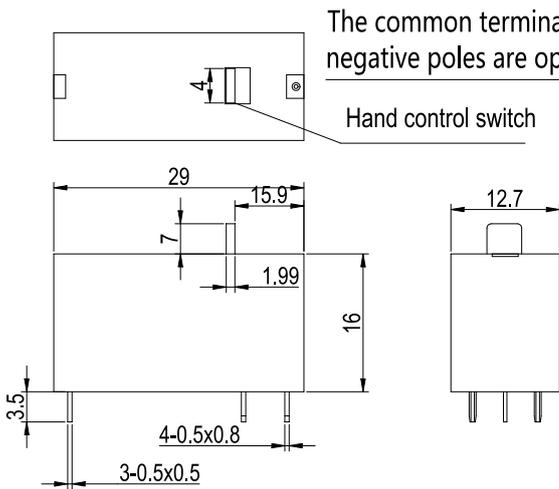
Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

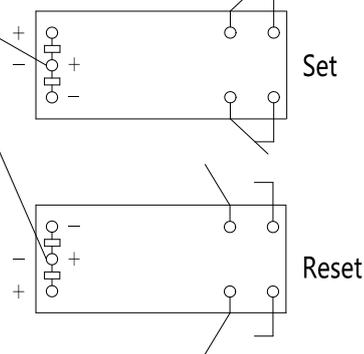


2A/2B Outline Dimensions
(Double coils latching)

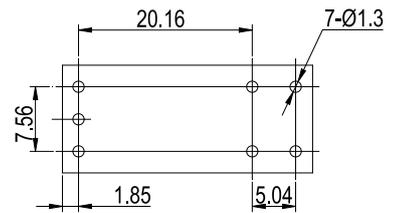


The common terminal, positive and negative poles are optional

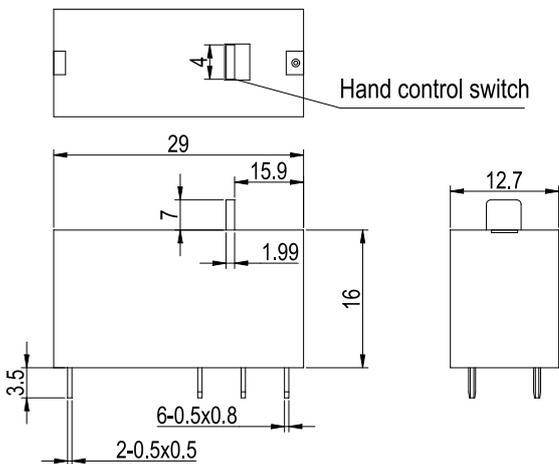
Wiring Diagram
(Bottom view)



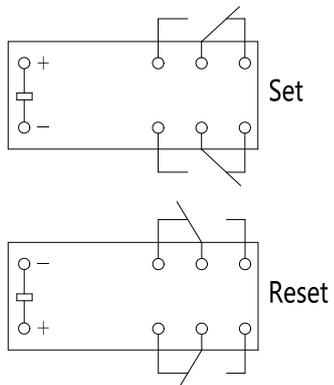
PCB Layout
(Bottom view)



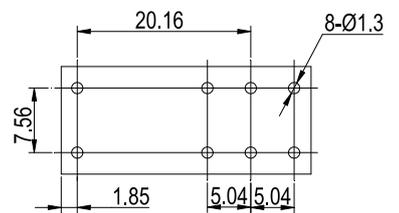
2C Outline Dimensions
(Single coil latching)



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)



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

2C

Outline Dimensions

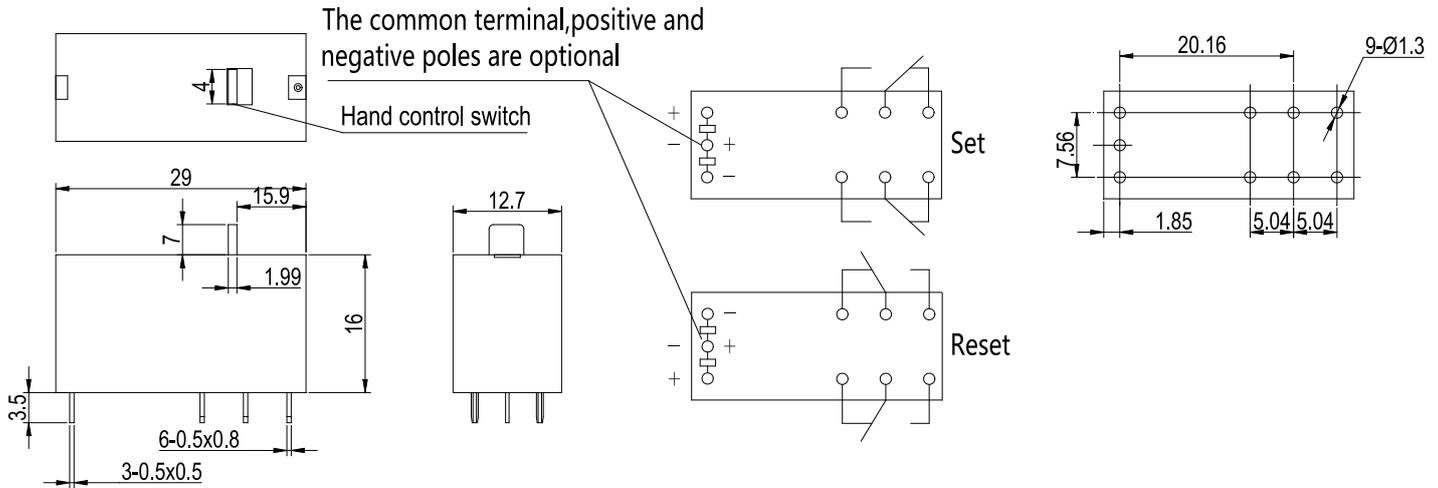
Wiring Diagram

PCB Layout

(Double coils latching)

(Bottom view)

(Bottom view)



Remark: (1) In case of no tolerance shown in outline dimension:outline dimension \leq 1mm,tolerance should be \pm 0.2mm;outline dimension $>$ 1mm and $<$ 5mm,tolerance should be \pm 0.3mm;outline dimension \geq 5mm,tolerance should be \pm 0.5mm.

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

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 \geq 5 times operation time.
- ② In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ③ In order to maintain the "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize the voltage to "set" coil and "reset" coil simultaneously.
- ④ The specification is for reference only.Specifications subject to change without notice.