

Features

- 20A 14VDC switching capability
- Contact arrangement: 1A、1C
- Standard PCB terminal
- Plastic sealed, Flux proofed
- Small size, light weight
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (15.5×12.0×14.0) mm
- Main application: automobile door lock、Automatic doors and Windows、turn light



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A、1C
	Contact resistance(initial)		100mΩ(6VDC 1A)
	Contact material		AgSnO ₂
Rated value	Rated load(Resistance load)		20A 14VDC 5A 250VAC
	Max.switching voltage		250VAC/16VDC
	Max.switching current		20A
	Max.switching capacity		1250VA/280W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	750VAC,1min
		Between coil&contacts	750VAC,1min
	Operate time		≤10ms
	Release time		≤5ms
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 ⁷ ops
	Electrical		20A 14VDC 1×10 ⁵ ops (ON/OFF=1s/9s) 5A 250VAC 1×10 ⁵ ops (ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃~85℃
	Humidity		5% to 90%
Termination			PCB
Unit weight			Approx.6g
Construction			Plastic sealed、Flux proofed

COIL DATA(23°C)

Standard Type

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (± 10%)	Coil Resistance (± 10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≥0.25	120mA	41.7Ω	600mW	130%Nominal Voltage
DC 6V	≤4.50	≥0.30	100mA	60Ω		
DC 9V	≤6.75	≥0.45	66.7mA	135Ω		
DC 12V	≤9.00	≥0.60	50mA	240Ω		
DC 15V	≤11.25	≥0.75	40mA	375Ω		
DC 18V	≤13.50	≥0.90	33.3mA	540Ω		
DC 24V	≤18.00	≥1.20	25mA	960Ω		

Sensitive Type

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (± 10%)	Coil Resistance (± 10%)	Nominal Power	Max Voltage
DC 3V	≤3.75	≥0.25	72mA	69.4Ω	360mW	130%Nominal Voltage
DC 5V	≤4.50	≥0.30	60mA	100Ω		
DC 6V	≤6.75	≥0.45	40mA	225Ω		
DC 9V	≤9.00	≥0.60	30mA	400Ω		
DC 12V	≤11.25	≥0.75	24mA	625Ω		
DC 15V	≤13.50	≥0.90	20mA	900Ω		
DC 18V	≤18.00	≥1.20	15mA	1600Ω		

ORDERING INFORMATION

W28

-1A

S

T

L

-XXX

DC5V

① Type

② Contact arrangement: 1A=1open contacts、
1C=1 switched contacts

③ switched contacts: Nil=Flux proofed, S=Plastic sealed

④ Contact material: T=AgSnO₂

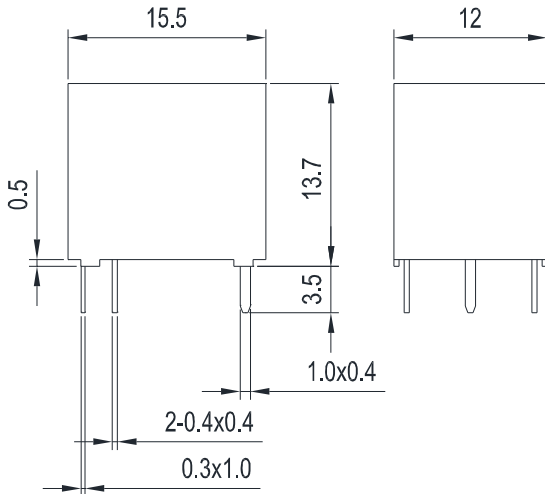
⑤ Coil power: Nil=Standard、L=Sensitive(type A only)

⑥ Customer special code: numbers or letters denote customer's requirements

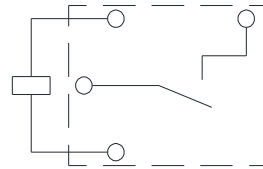
⑦ Coil specification: DC3/5/6/9/12/15/18/24V

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

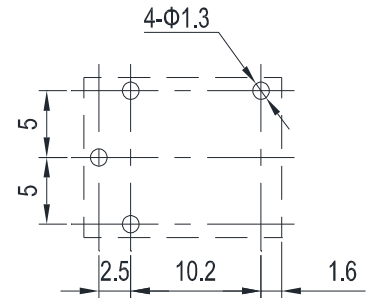
1A Outline Dimensions



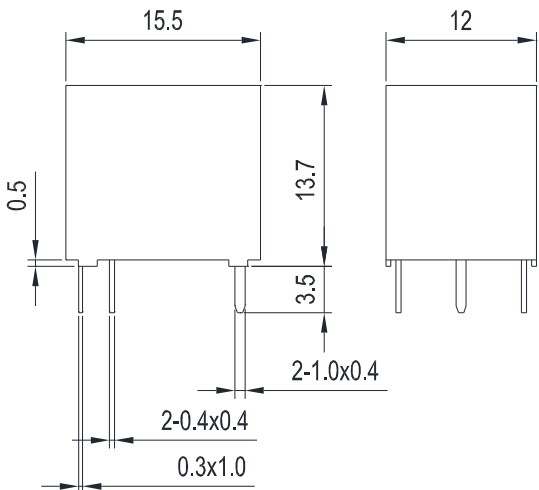
Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)



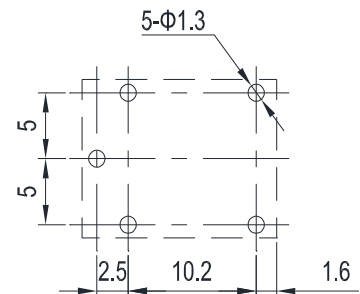
1C Outline Dimensions



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

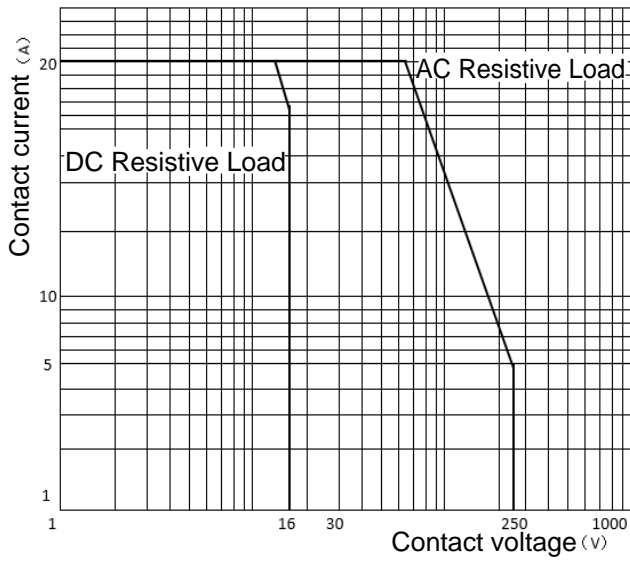


Remark: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $< 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $\geq 5\text{mm}$, tolerance should be $\pm 0.5\text{mm}$.

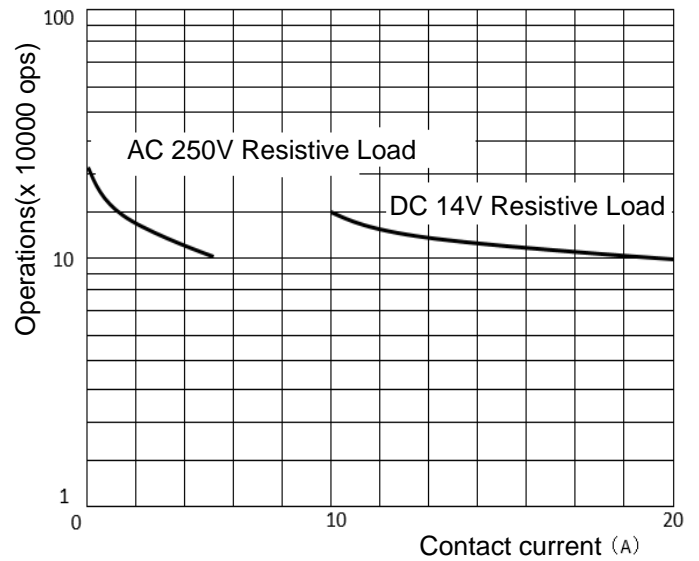
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

■ PERFORMANCE CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



■ NOTICE

- ① If the relay needs to be cleaned or used in bad environment (e.g. dust or organic gas), we recommend plastic sealed type.
- ② The specification is for reference only, specifications subject to change without notice.