PIC RELAY

20.0 x 9.8 x 12.0

M 4

Features

DIL Pitch Terminals .High Sensitivity
Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC
Fully sealed (immersion cleaning).
High Reliability bifurcated Contact.
Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

Ordering Information

M4 - 12 H A W
1 2 3 4 5

1 Part Mumber: M4
2 Coil Rated Voltage: DC:3:3V; 5:5V; 6:6V; 9:9V; 12:12V; 18:18V; 24:24V; 48:48V
3 Enclosure: H: Sealed Type
4 Nominal Coil Power: Nil:0.15W; A:0.2W; M:0.45W
5 Contact Material: Nil: Ag Pd; W: Ag Ni

Contact Data

Contact Arrangement		2C DPDT(B-M) Bifurcated Crossbar	
Contact Material		Ag Pd(Gold clad>) Ag Ni(Gold clad	
Contact Rating (resistive)		1A/24VDC; 0.5A/120VAC	
Max. Switching Power		30W 62.5VA	Min. Switching load 0.01mA/10mV Reference Value
Max. Switching Voltage		220VDC 250VAC	Max. Switching Current:2A
Contact Resistance or Voltage drop		50m	Item 3.12 of IEC255-7
Operation life	Electrical	1A/24VDC 5 10^5 Ag Alloy 1 10^5 0.5A/120VAC 2 10^5	Item 3.30 of IEC255-7
	Mechanical	10^8	Item 3.31 of IEC255-7

CAUTION:
Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance 10%	Pick up voltage VDC(max) (70% or 66%of rated voltage)	release voltage VDC(min) (5% or 10% of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max.						
M4-3H	3	7.5	60	2.1	0.15	0.15	5	3
M4-5H	5	12.5	167	3.5	0.25	0.15		
M4-6H	6	15.0	240	4.2	0.3	0.15		
M4-9H	9	22.5	540	6.3	0.45	0.15		
M4-12H	12	30.0	960	8.4	0.6	0.15		
M4-18H	18	40.0	1620	12.6	0.9	0.20		
M4-24H	24	52.9	2880	16.8	1.2	0.20		
M4-48H	48	84.9	7680	33.6	2.4	0.30		
M4-3HA	3	6.5	45	2.1	0.3	0.2	5	3
M4-5HA	5	10.8	125	3.5	0.5	0.2		
M4-6HA	6	13.0	180	4.2	0.6	0.2		
M4-9HA	9	19.5	405	6.3	0.9	0.2		
M4-12HA	12	26.5	720	8.4	1.2	0.2		
M4-24HA	24	52.9	2880	16.8	2.4	0.2		
M4-48HA	48	103.9	11520	33.6	4.8	0.2		
M4-5HM	5	7.7	56	3.3	0.5	0.45	5	3
M4-6HM	6	9.2	80	4.0	0.6	0.45		
M4-9HM	9	13.7	180	6.0	0.9	0.45		
M4-12HM	12	18.3	320	8.0	1.2	0.45		
M4-18HM	18	27.5	720	12.0	1.8	0.45		
M4-24HM	24	36.7	1280	15.9	2.4	0.45		
M4-48HM	48	72.5	5000	33.0	4.8	0.45		

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Electrostatic capacitance		
Between open Contacts	Approx.0.7pF	Item 3.41 of IEC255-7
Between coil & Contacts	Approx.1.0pF	Item 3.41 of IEC255-7
Between Contact Poles	Approx.0.9pF	Item 3.41 of IEC255-7
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC255-5
Between coil & Contacts	1000VAC 1min	Item 6 of IEC255-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC255-5
Surge Withstand Voltage		
Between open Contacts	1500V	FCC68
Between coil & Contacts	1500V	FCC68
Between Contact Poles	1500V	FCC68
Shock resistance	Functional:100m/s^2 11ms; Survival:1000 m/s^2 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional: 1.5mm Survival:5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Temperature Range	-40~90℃(-40~194° F) (-40~80℃ for 0.3W Coil)	
Mass	4.5g	

Qualification inspection:

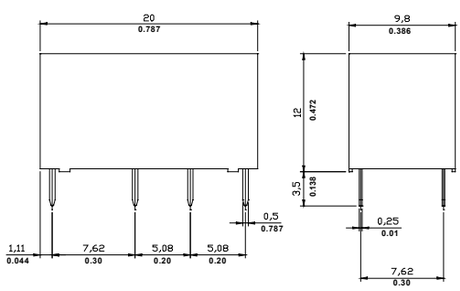
Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size24.

Safety approvals

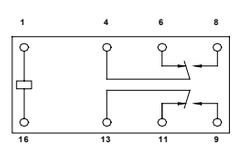
Safety approval	UL&CUR
Load	1A/24VDC 0.5A/125VAC

Dimensions

mm/inch

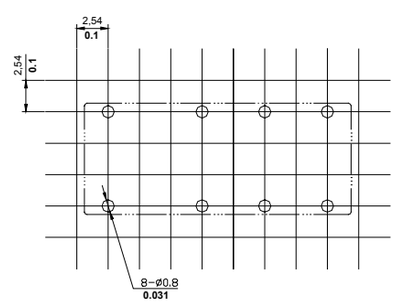


Dimensions



Wiring diagram

(Bottom views)



Tolerance: ±0.1/±0.004

Mounting (Bottom views)

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.