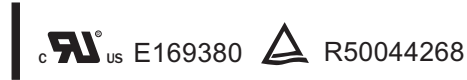




20.0×9.8×12.0

M4



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 Part number: M4	3 Enclosure: H: Sealed Type
2 Coil rated voltage: DC:3:3V; 5:5V; 6:6V; 9:9V; 12:12V; 18:18V; 24:24V; 48:48V	4 Nominal coil power: Nil:0.15W; A:0.2W; M:0.45W
	5 Contact material: Nil: AgPd; W: AgNi

Contact Data	
Contact Arrangement	2C (DPDT(B-M)) (Bifurcated Crossbar)
Contact Material	AgPd(Gold clad) AgNi(Gold clad)
Contact Rating (resistive)	1A/24VDC; 0.5A/120VAC
Max. Switching Power	60W 125VA <small>Min. Switching load: 0.01mA/10mV (Reference Value)</small>
Max. Switching Voltage	220VDC 250VAC <small>Max. Switching Current:2A</small>
Contact Resistance or Voltage drop	<50mΩ <small>Item 4.12 of IEC 61810-7</small>
Operational Life	Electrical 1A/24VDC: 5×10 ⁵ (Ag Ni : 1×10 ⁵) 0.5A/120VAC: 2×10 ⁵ <small>Item 4.30 of IEC 61810-7</small>
	Mechanical 10 ⁸ <small>Item 4.30 of IEC 61810-7</small>

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.

Dash numbers	Coil voltage VDC		Coil resistance Ω ±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.						
M4-003	3	7.5	60	2.1	0.15	0.15	Approx. 5	Approx. 3
M4-005	5	12.5	167	3.5	0.25	0.15		
M4-006	6	15.0	240	4.2	0.3	0.15		
M4-009	9	22.5	540	6.3	0.45	0.15		
M4-012	12	30.0	960	8.4	0.6	0.15		
M4-018	18	40.0	1620	12.6	0.9	0.20		
M4-024	24	52.9	2880	16.8	1.2	0.20		
M4-048	48	84.9	7680	33.6	2.4	0.30		
M4-003A	3	6.5	45	2.1	0.3	0.2	Approx. 5	Approx. 3
M4-005A	5	10.8	125	3.5	0.5	0.2		
M4-006A	6	13.0	180	4.2	0.6	0.2		
M4-009A	9	19.5	405	6.3	0.9	0.2		
M4-012A	12	26.5	720	8.4	1.2	0.2		
M4-024A	24	52.9	2880	16.8	2.4	0.2		
M4-048A	48	103.9	11520	33.6	4.8	0.2		
M4-005M	5	7.7	56	3.3	0.5	0.45		
M4-006M	6	9.2	80	4.0	0.6	0.45		
M4-009M	9	13.7	180	6.0	0.9	0.45		
M4-012M	12	18.3	320	8.0	1.2	0.45		
M4-018M	18	27.5	720	12.0	1.8	0.45		
M4-024M	24	36.7	1280	15.9	2.4	0.45		
M4-048M	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.
3.Unless otherwise stated, the rated coil voltage specified in coil parameter table shall be used for all tests and its application to the relay.

Characteristics		
Electrostatic capacitance		
Between open Contacts	Approx.0.7pF	Item 4.41 of IEC 61810-7
Between coil & Contacts	Approx.1.0pF	Item 4.41 of IEC 61810-7
Between Contact Poles	Approx.0.9pF	Item 4.41 of IEC 61810-7
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC 61810-5
Between coil & Contacts	1000VAC 1min	Item 6 of IEC 61810-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC 61810-5
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	

Safety approvals		
Safety approval	UL&CUR	TUV
Load	1A/24VDC 0.5A/120VAC	1A/24VDC、0.5A/120VAC

Dimensions

Dimensions

mm/inch

Wiring diagram
(Bottom view)

Mounting (Bottom view)

NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.