

M4S



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				
$\frac{\mathbf{M4S}}{1} \frac{12}{2} \frac{\mathbf{H}}{3} \frac{\mathbf{A}}{4} \frac{\mathbf{W}}{5}$				
1 Part number: M4S 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 5 Contact material: W: AgNi			

Contact Data

Contact Arrang	gement	2C (DPDT(B-M))		
Contact Materi	al	AgNi(Gold clad)		
Contact Rating (resistive)		1mA/10mV to 2A,3A/30VDC; 0.6A/125VAC		
Max. Switching Power		90W 125VA	Min. Switching load: 1mA/10mV (Reference Value)	
Max. Switching Voltage		220VDC 250VAC	Max. Switching Current:3A	
Contact Resistance or Voltage drop		≤100mΩ	Item 4.12 of IEC 61810-7	
Operational Electrical		1×10 ⁵	Item 4 .30 of IEC 61810-7	
life	Mechanical	10 ⁸	Item 4.31 of IEC 61810-7	

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	Coil voltage VDC		Coil resistance	Pick up voltage	Release voltage VDC(min)	Coil	Operate Time	Release Time
numbers	Rated	Max	$\Omega \pm 10\%$	VDC(max) (70% of rated voltage)	(5% or 10% of rated voltage)	W	ms	ms
M4S-003	3	7.5	60	2.1	0.15	0.15		
M4S-005	5	12.5	167	3.5	0.25	0.15		
M4S-006	6	15.0	240	4.2	0.3	0.15	_	
M4S-009	9	22.5	540	6.3	0.45	0.15	Approx. 5	Approx. 3
M4S-012	12	30.0	960	8.4	0.6	0.15		
M4S-018	18	40.0	1620	12.6	0.9	0.20		
M4S-024	24	52.9	2880	16.8	1.2	0.20		
M4S-048	48	84.9	7680	33.6	2.4	0.30		
M4S-003A	3	6.5	45	2.1	0.3	0.2		
M4S-005A	5	10.8	125	3.5	0.5	0.2		
M4S-006A	6	13.0	180	4.2	0.6	0.2		
M4S-009A	9	19.5	405	6.3	0.9	0.2	Approx. 5	Approx. 3
M4S-012A	12	26.5	720	8.4	1.2	0.2		
M4S-024A	24	52.9	2880	16.8	2.4	0.2		
M4S-048A	48	103.9	11520	33.6	4.8	0.2		

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

Approx.0.7pF	Item 4.41 of IEC 61810-7		
Approx.1.0pF	Item 4.41 of IEC 61810-7		
Approx.0.9pF	Item 4.41 of IEC 61810-7		
1000M Ω min (at 500VDC)	Item 7 of IEC 61810-5		
1000VAC 1min 1000VAC 1min 1000VAC 1min	Item 6 of IEC 61810-5 Item 6 of IEC 61810-5 Item 6 of IEC 61810-5		
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1500V 1500V 1500V	FCC68 FCC68 FCC68		
Functional:100m/s² 11ms; Survival:1000 m/s² 6ms	IEC68-2-27 TestEa		
10~55Hz Double amplitude Functional:1.5mm Survival:5mm	IEC68-2-6 Test Fc		
5N	IEC68-2-21 Test Ua1		
235℃ ± 2℃ 3 ± 0.5s	IEC68-2-20 Test Ta method 1		
-40~90℃ (-40~194° F) (-40~80℃ for 0.3W Coil)			
4.5g			
	Approx.1.0pF Approx.0.9pF 1000M Ω min (at 500VDC) 1000VAC 1min 1000VAC 1min 1000VAC 1min 1000VAC 1min 1500V 1500V 1500V 1500V Functional:100m/s² 11ms; Survival:1000 m/s² 6ms 10~55Hz Double amplitude Functional:1.5mm Survival:5mm 5N 235℃±2℃ 3±0.5s -40~90℃(-40~194° F) (-40~80℃ for 0.3W Coil)		

Safety approvals

Safety approval	UL&CUR	TÜV
Load	2A,3A/30VDC 0.6A/125VAC	2A/30VDC、0.6A/125VAC

mm/inch **Dimensions** 20max. 0.787max 9.8max. 0.386max. Wiring diagram (Bottom view) 0.01 Dimensions Tolerance: $\pm 0.1/\pm 0.004$ Mounting (Bottom view)

NOTES 1). Dimensions are in millimeters.

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

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