FORWARD RELAYS



M4S

Rus E158859 🛕 R50044268

3 Enclosure: H: Wash tight 4 Contact material: W: AgNi

5 Nominal coil power: Nil:0.15W; A:0.2W

20×10×12

Features

• DIL pitch terminals. High sensitivity.

- Conforms to FCC Part 68 1.5kV surge and dielectric 1000VAC.

5

- 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 <u>M4S</u> <u>12</u> H W A

2 3 4 1

1 Part number: M4S

2 Coil rated voltage: DC:3:3V; 5:5V; 6:6V; 9:9V; 12:12V; 24:24V; 48:48V

.... 4 D-4

Contact Da	ta		
Contact Arrangement		2C(DPDT(B-M))	
Contact Material		AgNi(Au plated)	
Contact Rating (Resistive)		2A,3A/30VDC; 0.6A/125VAC	
Max. Switching	g Power	90W 125VA	Min. Switching Load: 1mA/10mV(Reference Value)
Max. Switching Voltage		220VDC 250VAC	Max. Switching Current:3A
Contact Resistance		≤100mΩ	Item 4.12 of IEC 61810-7
Operational Life	Electrical	1×10 ⁵	Item 4.30 of IEC 61810-7
	Mechanical	1×10 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 numbers	Coil voltage VDC		Coil	Pick-up voltage	Drop-out voltage	Coil	Operate	Release
	Rated	Max	$\Omega \pm 10\%$	VDC(max) (70% of rated voltage)	VDC(min) (5% or 10% of rated voltage)	power W	time ms	time ms
M4S-003 M4S-005 M4S-006 M4S-009 M4S-012 M4S-024 M4S-048	3 5 9 12 24 48	7.5 12.5 15.0 22.5 30.0 52.9 84.9	60 167 240 540 960 3840 7680	2.1 3.5 4.2 6.3 8.4 16.8 33.6	0.15 0.25 0.3 0.45 0.6 1.2 2.4	0.15 0.15 0.15 0.15 0.15 0.15 0.30	Approx. 4.5	Approx. 1.5
M4S-003A M4S-005A M4S-009A M4S-009A M4S-012A M4S-024A M4S-024A	3 5 6 9 12 24 48	6.5 10.8 13.0 19.5 26.5 52.9 103.9	45 125 180 405 720 2880 11520	2.1 3.5 4.2 6.3 8.4 16.8 33.6	0.3 0.5 0.6 0.9 1.2 2.4 4.8	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Approx. 4.5	Approx. 1.5

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 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	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength		
Between Open Contacts Between Coil & Contacts Between Contact Poles	1000VAC 1min 1000VAC 1min 1000VAC 1min	Item 4.9 of IEC 61810-7
Surge Withstand Voltage		
Between Open Contacts Between Coil & Contacts Between Contact Poles	1500V 1500V 1500V	FCC 68
Shock Resistance	Functional:98m/s ² 11ms; Destructive:980 m/s ² 6ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude Functional:1.5mm Destructive:5mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Temperature Range	-40℃~90℃(-40° F~194° F) (-40℃~80℃ for 0.3W Coil)	
Mass	Approx. 4.8g	Item 4.7 of IEC 61810-7

Safety Approvals

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

