HUAGUAN RELAYS



M1B

Features

- DIL pitch terminals. High sensitivity.Conforms to FCC Part 68, 1.5kV surge and dielectric 1000VAC.
- 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 3 Enclosure: H:Wash tight 1 Part number: M1B 4 Nominal coil power: Nil:0.55W; A:0.4W 2 Coil rated voltage(V): DC:3,5,6,9,12,24,48 5 Contact material: Nil:AgPd; W:AgNi

Contact Data

00:::::::::::::::::::::::::::::::::::::		
Contact Arrangement	2C(DPDT(B-M)) (Bifurcated Crossbar)	
Contact Material	AgPd(Au plated) AgNi(Au plated)	
Contact Rating	1A/24VDC; 0.5A/120VAC	
Max. Switching Power	60W 125VA	Min. Switching Load:0.01mA/10mV(Reference Value)
Max. Switching Voltage	220VDC 250VAC	Max. Switching Current:2A
Contact Resistance	≤50mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1A/24VDC:5×10 ⁵ (Ag Ni:1×10 ⁵) 2A/30VDC:1×10 ⁵ 0.5A/120VAC:2×10 ⁵	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 ⁸	Item 4.31 of IEC 61810-7

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

Coil Parameter

	oltage DC	Coil	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil power	Operate time	Release time
Rated	Max.	resistance Ω ± 10%	(70% of rated voltage)	(10% of rated voltage)	W	ms ms	
3 5 6 9 12 24 48	4.2 7.0 8.4 12.3 17.4 34.0 64.9	16 45 66 140 280 1070 3900	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	0.56 0.56 0.55 0.58 0.52 0.54 0.59	Approx. 4.5	Approx. 1.5
3 5 6 9 12 24 48	4.9 8.1 9.7 14.5 19.4 38.9 77.8	22.5 62.5 90 203 360 1440 5760	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	0.4 0.4 0.4 0.4 0.4 0.4	Approx. 4.5	Approx. 1.5

Notes: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

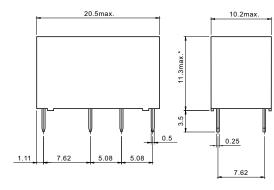
Characteristics

Electrostatic Capacitance		
Between Open Contacts	Approx.0.7pF	Item 4.41 of IEC 61810-7
Between Contact and Coil	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 4.11of IEC 61810-7
Dielectric Strength		
Between Open Contacts	1000VAC 1min	
Between Contact and Coil	1000VAC 1min	Item 4.9 of IEC 61810-7
Between Contact Poles	1000VAC 1min	
Surge Withstand Voltage		
Between Open Contacts	1500V	
Between Contact and Coil	1500V	FCC 68
Between Contact Poles	1500V	
Shock Resistance	Functional:98m/s² 11ms; Destructive:980 m/s² 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℃~65℃(-40°F~149°F) (-40℃~70℃ for 0.4W Coil)	
Weight(Approx.)	4.8g	Item 4.7 of IEC 61810-7

Safety Approvals

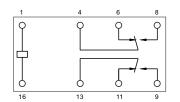
Safety approval	UL&CUR	TüV
Load	1A/24VDC; 2A/30VDC;0.5A/120VAC	1A/24VDC; 0.5A/120VAC

Dimensions

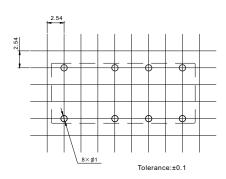


*Note:12.3max. (48V, 0.4W)

Dimensions



Wiring diagram (Bottom view)



Mounting (Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm; outline dimension>1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension>5mm, tolerance should be ±0.4mm.

HUAGUAN RELAYS

