# **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**

#### M1B 12 2 3

1 Part number: M1B

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

3 Enclosure: H: Wash tight

4 Contact material: Nil: AgPd; W: AgNi 5 Nominal coil power: Nil:0.55W; A:0.4W

#### **Contact Data**

gement	2C(DPDT(B-M)) (Bifurcated Crossbar)		
ial	AgPd(Au plated) AgNi(Au plated)		
g (Resistive)	0.01mA/10mV to 1A/24VDC; 0.5A/120VAC		
g Power	60W 125VA	Min. Switching Load:0.01mA/10mV(Reference Value)	
g Voltage	220VDC 250VAC	Max. Switching Current:2A	
tance	<b>≤50m</b> Ω	Item 4.12 of IEC 61810-7	
Electrical	1A/24VDC:5×10 <sup>5</sup> (Ag Ni:1×10 <sup>5</sup> )J 2A/30VDC:1×10 <sup>5</sup> 0.5A/120VAC:2×10 <sup>5</sup>	Item 4.30 of IEC 61810-7	
Mechanical	1×10 <sup>8</sup>	Item 4.31 of IEC 61810-7	
	g (Resistive) g Power g Voltage tance	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

#### CAUTION:

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**

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Dash numbers Rated Ma		Coil	Pick-up voltage	Drop-out voltage	Coil	Operate	Release	
	Rated	Max.	resistance Ω ± 10%	VDC(max) (70% of rated voltage)	VDC(min) ( 10% of rated voltage)	power W	time ms	time ms
M1B-003	3	4.2	16	2.1	0.3	0.56		
M1B-005	5	7.0	45	3.5	0.5	0.56	Approx. 4.5	Approx. 1.5
M1B-006	6	8.4	66	4.2	0.6	0.55		
M1B-009	9	12.3	140	6.3	0.9	0.58		
M1B-012	12	17.4	280	8.4	1.2	0.52		
M1B-024	24	34.0	1070	16.8	2.4	0.54		
M1B-048	48	64.9	3900	33.6	4.8	0.59		
M1B-003A	3	4.9	22.5	2.1	0.3	0.4		
M1B-005A	5	8.1	62.5	3.5	0.5	0.4	Approx. 4.5	Approx.
M1B-006A	6	9.7	90	4.2	0.6	0.4		
M1B-009A	9	14.5	203	6.3	0.9	0.4		
M1B-012A	12	19.4	360	8.4	1.2	0.4		
M1B-024A	24	38.9	1440	16.8	2.4	0.4		
M1B-048A	48	77.8	5760	33.6	4.8	0.4		

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.

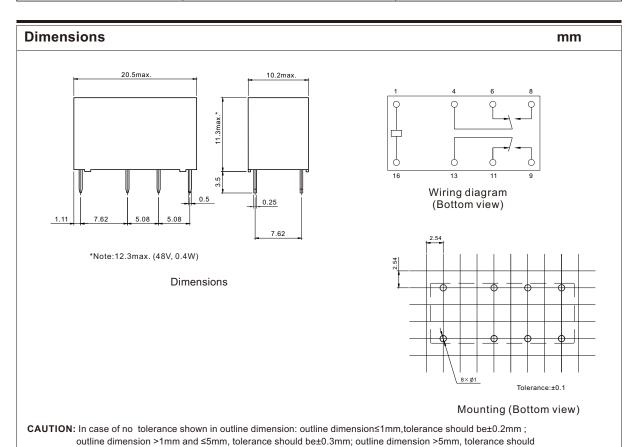
## Characteristics

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 <sup>2</sup> 11ms; Destructive:980 m/s <sup>2</sup> 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)	
Mass	Approx. 4.8g	Item 4.7 of IEC 61810-7

# **Safety Approvals**

be±0.4mm.

Safety approval	UL&CUR	τυν
Load	20A/30VDC;1A/24VDC; 0.5A/120VAC	1A/24VDC; 0.5A/120VAC



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