

Specification Sheet

Revision Date: 19/04/10

Manufacturers please note, we recommend that a sample is obtained to confirm suitability.
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Altronics Part Number	Description	Supplier Ordering Info
S 4128B	PCB Relay Telecom 5V 2A DPDT	P-5
S 4130B	PCB Relay Telecom 12V 2A DPDT	P-12
S 4132B	PCB Relay Telecom 24V 2A DPDT	P-24

Features

- DIL Pitch Terminals .High Sensitivity :0.14W or 0.10W Nominal Power.
- Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC.
- Monostable or bistable relays Single and double Coil magnet latching Type available.
- Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

Contact Data

Contact Arrangement		2C (DPDT(B-M)) (Bifurcated Crossbar)
Contact Material		AgPd(Stationary Contact: Gold clad)
Contact Rating (resistive)		1A,2A/30VDC; 0.5A/125VAC
Max. Switching Power		60W 62.5VA Min. Switching load: 0.01mA/10mV (Reference Value)
Max. Switching Voltage		220VDC 250VAC Max. Switching Current:2A
Contact Resistance or Voltage drop		≤50mΩ Item 4.12 of IEC 61810-7
Operation life	Electrical	1A/30VDC: 2×10^5 (Ag Ni: 1×10^5) 0.5A/125VAC: 1×10^5 Item 4.30 of IEC 61810-7
	Mechanical	10^8 Item 4.31 of IEC 61810-7

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

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (75% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release /Reset Time ms
	Rated	Max.						
S 4128B	5	12.5	178	3.75	0.5	0.14	Approx.2	Approx.1
S 4130B	12	30.0	1028	9.00	1.2	0.14		
S 4132B	24	48.0	2880	18.0	2.4	0.20		

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(reset) voltage are for test purposes only and are not to be used as design criteria.
- 3.When latching relays are installed in equipment, the latch and reset coil should not be pulsed simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position .

Characteristics

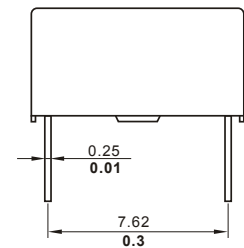
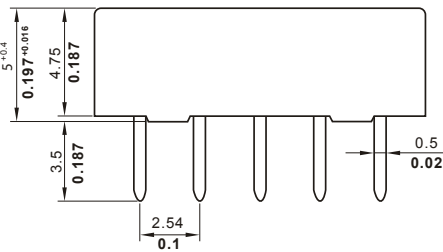
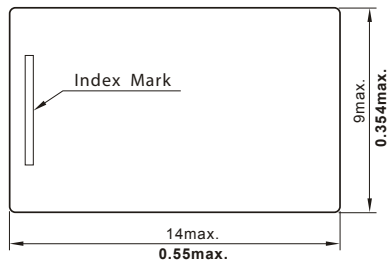
Electrostatic capacitance		
Between open Contacts	Approx.0.4pF	Item 4.41 of IEC 61810-7
Between coil & Contacts	Approx.0.9pF	Item 4.41 of IEC 61810-7
Between Contact Poles	Approx.0.2pF	Item 4.41 of IEC 61810-7
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC 60255-5
Between coil & Contacts	1000VAC 1min	Item 6 of IEC 60255-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC 60255-5
Surge Withstand Voltage		
Between open Contacts	1500V	FCC 68
Between coil & Contacts	1500V	FCC68
Between Contact Poles	2500V	FCC 68
Shock resistance	Functional:500m/s ² 11ms; Survival:1000 m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional: 3mm Survival:5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235 °C \pm 2 °C 3 \pm 0.5s	IEC 68-2-20 Test Ta method 1
Temperature Range	-40~70°C(-40~158° F)	
Mass	1.5g	

Safety approvals

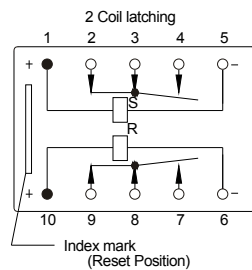
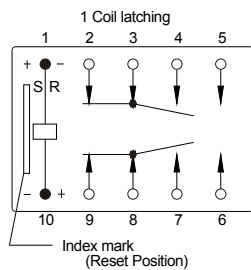
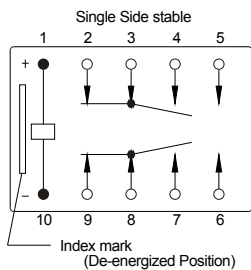
Safety approval	UL&CUR	TUV
Load	1A,2A/30VDC, 0.5A/125VAC	1A/30VDC, 0.5A/125VAC

Dimensions

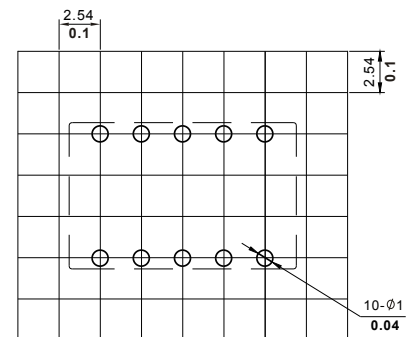
mm/inch



Dimensions



S: Set
R: Reset
(Bottom View)



Tolerance: \pm 0.1/0.004

Mounting (Bottom view)

Wiring diagram
(Bottom view)

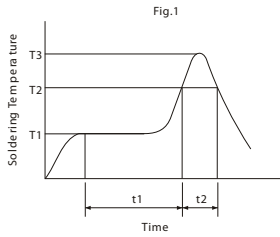
NOTES 1).Dimensions are in millimeters.

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

SOLDERING and MOUNTING RECOMMENDATIONS

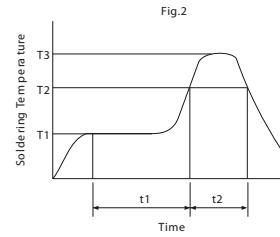
1. Conditions for Terminal Soldering by reflow soldering method

a. In case of Infrared Soldering



T1:+120 to+150 °C(+248 to+302 °F)
 T2:+180 to+200 °C(+356 to+392 °F)
 T3:+245 °C(+473 °F)Max.
 t1:60 to 90 Sec.
 t2:+30Sec.Max.

b. In case of Vapor Phase Soldering



T1:+120 to+150 °C(+248 to+302 °F)
 T2:+180 to+200 °C(+356 to+392 °F)
 T3:+215 °C(+419 °F)Max.
 t1:+40 to 60Sec
 t2:+60Sec.Max.

2. Usage of Stand-Off A & B in Base Area

The Stand-Offs shown in the Fig. 3 are designed to Anchor Relays temporarily to PCBoard with glue before Terminal Soldering.

