

## Specification Sheet

Revision Date: 12/04/10

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 4147	Relay Micro 5V 1A PC DPDT	M4-5H AGPD
S 4150	Relay Micro 12V 1A PC DPDT	M4-12H AGPD
S 4152	Relay Micro 24V 1A PC DPDT	M4-24H AGPD

### 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.

### Contact Data

Contact Arrangement	2C (DPDT(B-M)) (Bifurcated Crossbar)
Contact Material	AgPd( Gold clad )
Contact Rating (resistive)	1A/24VDC; 0.5A/120VAC
Max. Switching Power	60W 125VA
Max. Switching Voltage	220VDC 250VAC
Contact Resistance or Voltage drop	≤50mΩ
Operational Life	Electrical 1A/24VDC: $5 \times 10^5$ (Ag Ni : $1 \times 10^5$ ) Mechanical $10^8$

### 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 resistance $\Omega \pm 10\%$	Pick up voltage VDC(max) (70% or 66%of rated voltage )	Release voltage VDC(min) (5% or 10% of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max.						
S 4147	5	12.5	167	3.5	0.25	0.15	Approx. 5	Approx. 3
S 4150	12	30.0	960	8.4	0.6	0.15		
S 4152	24	52.9	2880	16.8	1.2	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 voltage are for test purposes only and are not to be used as design criteria.
- 3.Unless otherwise stated, the rated coil voltage specified in coil parameter table shall be used for all tests and its application to the relay.

## Characteristics

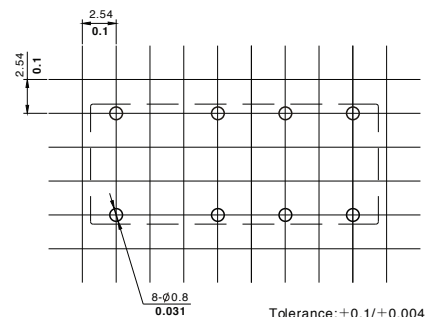
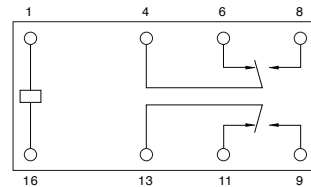
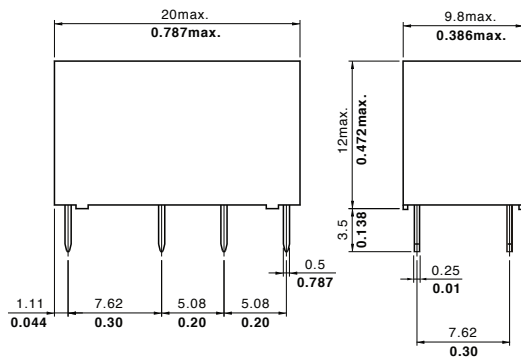
Electrostatic capacitance		
Between open Contacts	Approx.0.7pF	Item 4.41 of IEC 61810-7
Between coil & Contacts	Approx.1.0pF	Item 4.41 of IEC 61810-7
Between Contact Poles	Approx.0.9pF	Item 4.41 of IEC 61810-7
Insulation Resistance	1000M $\Omega$ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
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	FCC 68
Between Contact Poles	1500V	FCC 68
Shock resistance	Functional:100m/s <sup>2</sup> 11ms; Survival:1000 m/s <sup>2</sup> 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional: 1.5mm Survival:5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235℃ $\pm$ 2℃ 3 $\pm$ 0.5s	IEC 68-2-20 Test Ta method 1
Temperature Range	-40~90℃ (-40~194 ° F) (-40~80℃ for 0.3W Coil)	
Mass	4.5g	

## Safety approvals

Safety approval	UL&CUR	TÜV
Load	1A/24VDC 0.5A/120VAC	1A/24VDC、0.5A/120VAC

## Dimensions

mm/inch



- NOTES 1).Dimensions are in millimeters.  
2).Inch equivalents are given for general information only.

