

Products for fourow...



Description

This small SIL is a replacement for the larger SIL relays having twice the square footage

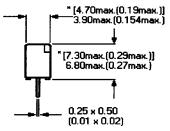
Features

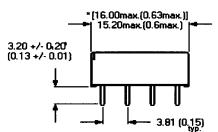
Single 1 Form A (SPST) contact
Magnetic shield versions available
Diode option available
High coll resistance options available
Half the mounting space of conventional SIL relays

Applications

Automatic test equipment
Measurement equipment
Telecommunications
Security systems
Medical electronics

Industrial control





Tolerance +/- 0.10 mm (0.004 in)

* Dimensions for versions with external magnetic screen option

**Mark represents Pin 1

Approvals and Certifications

UL, VDE, EN60950 ISO9001, QS9000 pending

Contact type
Contact form
All data at 20 °C
Optional magnetic shield

Contact 71
Standard
Form 1A
See ordering information
See ordering information

1 Up VIEW							
Schematic Diagram							
1 2 4 4							

	Optional magnetic shield	Optional magnetic shield		See ordering information		
Parameter	Conditions	Sym.	Min	Typ	Max	Units
Coil Characteristics***						
5 Volt coil drive	Operating voltage			5	7.5	Volts
	Coil resistance		252	280	308	Ω
	Must Operate Voltage		0.8		3.5	Volts
	Must Reset voltage		0.75		3.5	Volts
12 Volt coil drive	Operating voltage			12	16	Voits
	Coil resistance		630	700	770	Ω
	Must Operate Voltage		1.8		8.4	Volts
	Must Reset voltage		1.8		8	Volts
Contact Ratings						
Rated Power	DC/peak AC Resistive	w			10	Watts
Switching Voltage	DC/peak AC Resistive	٧			200	Volts
Switching Current	DC/peak AC Resistive	Α			0.5	Amps
Carry Current	DC/peak AC Resistive	Α			1.5	Amps
Static Contact Res.	50mV @ 10mA @ nom. volt.	CR			150	mΩ
Dynamic Contact Res.	0.5V@50mA, 100 Hz					
	and after 1.5ms @ nom. volt.	DCR			200	mΩ
Life expectancy	Switching1.0 V with 10ma	10 ⁶	1000			ops
	Rated Loads (consult factory)					ops
Contact material				Ru		
Relay Specifications						
Dielectric Strength	Across contact		250			DCV
	Contact to coil	1/0	1500		İ	DCV
Capacitance	Across switch			0.2		pf
	Switch to coil			2		pf
Operating time	Including bounce	Τορ			500	μδ
Release time	No suppression	Trei			50	μ\$
	Diode suppressed	Trel			300	μs
	Diode and 24V zener	Trel			100	μs
Insulation Resistance	Across switch	IR	10 ¹⁰	10 ¹²		Ω
	Switch to coil	IR	10 ¹²	1014		Ω
Environmental Ratings						
Operating temperature	1	То	-40		85	°C
Storage temperature		Ta	-40		100	۰c
Soldering time	1				10	sec
Solder temperature	1				260	°C
Cleaning			i	Fully Seale	d	
Shock	At 11 ms +/-1ms; 1/2 sine wave	s			50	Gs
Vibration	10Hz to 2000Hz	G			10	Gs
the The sail registeres asserts	and reset characteristics will all chan			V 0 4		

^{***} The coil resistance, operate and reset characteristics will all change at the rate of 0.4%0 C

Ordering Information

MS	XX-	XXXX-	75
Series	Nominal	Contact	
	Voltage	Туре	
	5	1A71	
	40		

Option
L - no option
M - with magnetic screen

D - with diode, no magnetic screen (pins +2, -3) E - with diode, with magnetic screen (pins +2, -3) HR - high coil resistance version (5V 500Ω only)

