



A fully screened relay offering low RF loss and high current carrying capacity, which was developed with RF design engineers in the radio communications industry. The relay coil is totally enclosed in a copper screen, resulting in lower self-heating and RF loss, and Rhodium contacts are used in the vacuum reed switches, yielding higher carry currents for a given frequency and ambient temperature.

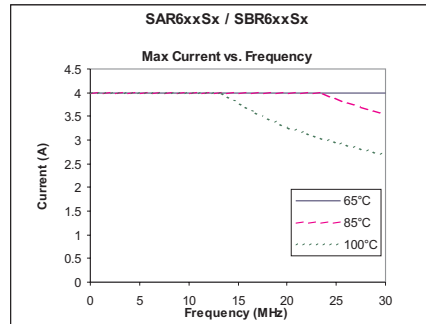
Available as Form A (SPNO), Form B (SPNC) or latching (bistable) contact configurations with switch connections via either PCB or flying lead

- **Excellent RF Characteristics**
- **Carry Current up to 4A RF at 30MHz**
- **3.5 kV Isolation**
- **Low RF Loss**
- **Long Lifetime**

Contact	Units	Conditions	Form A			Form B			Latching	
Contact Material			Rhodium			Rhodium			Rhodium	
Isolation across contacts	kV	DC or AC peak	3			3			3.5	
Max. carry current	A	DC or AC rms	4*			4*			1.5	
Max. switching power	W		10			10			10	
Max. switching voltage	V	DC or AC peak	20			20			20	
Max. switching current	A	DC or AC peak	0.5			0.5			0.5	
Capacitance across contacts	pF	coil/screen grounded	<0.1			<0.1			<0.1	
Lifetime	operations	dry switching	10 ⁹			10 ⁹			10 ⁹	
Lifetime	operations	10W switching	10 ⁸			10 ⁸			10 ⁸	
Contact Resistance	mOhms	maximum (typical)	80 (30)			80 (30)			80 (30)	
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)	
Coil			5V	12V	24V	5V	12V	24V	5V	12V
Must Operate	V	DC, 20°C	3.5	8	15	3.5	8	15	N/A	N/A
Must Release	V	DC, 20°C	1	2	4	1	2	4	3	7
Min Pulse Length		ms	N/A	N/A	N/A	N/A	N/A	N/A	2.0	2.0
Operate Time		ms	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Release Time	ms	diode fitted	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
Resistance	Ohms	20°C	70	380	1500	65	350	1200	100	500
Construction										
Isolation contact to coil	kV	DC or AC peak	3			3			3.5	
Environmental										
Operating temperature range	°C	Limited Current	-40 to +100*			-40 to +100*			-40 to +100	
Storage temperature range	°C		-40 to +125			-40 to +125			-40 to +125	
Weight	gm	typical	5.3			6.1			5.0	

*see graphical data

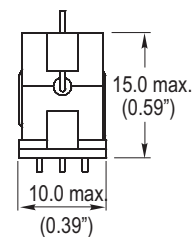
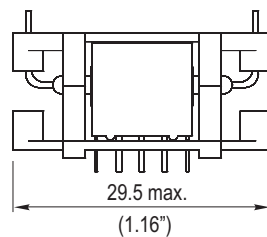
Part Numbering system			S	A	R	6	05	S	U
Reed switch Size - S									
Contact Form A: Form A, B: Form B, L: Latching									
Contact Material R: Rhodium									
Relay Series Number									
Coil Voltage 5: 5V, 12: 12V, 24: 24V									
Screening S: Fully Screened									
Contact Pin Orientation D: PCB U: flying lead									



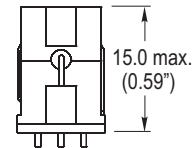
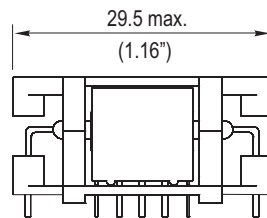
Mechanical Dimensions

All dimensions are in millimeters (inches)

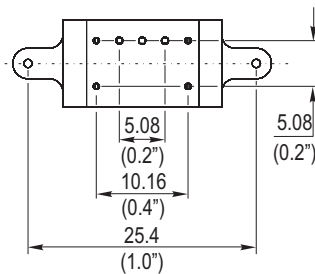
Flying Lead



PCB Mount

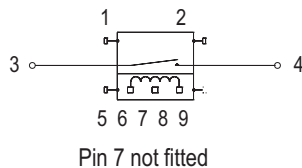


Pins 3, 4 require
1mm diameter ± 0.05 holes

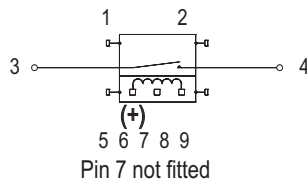


The following Pins require 0.9mm
diameter ± 0.05 mm holes, where
fitted 1, 2, 5, 6, 7, 8, 9

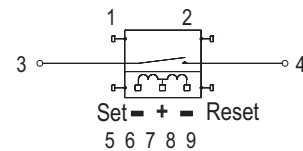
Circuit diagram, Form A



Circuit diagram, Form B



Circuit diagram, Latching



(all pins views from above)

ISO9001 Certified

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