

- Compact Footprint
- Designed Specifically for High Voltage
- Rhodium Contacts for Low Resistance
- 3 or 5kV Isolation between Contacts
- Excellent Lifetime Characteristics

S Series 5kV, 10W

Developed for the high voltage ATE market, where PCB space is at a premium, the S Series High Voltage Reed Relay offers a 3 or 5kV isolation performance in a 30mm size package. With low contact resistance, the S Series High Voltage Reed Relay will satisfy the many high voltage applications at DC and low frequency, where performance and reliability are paramount.

CONTACT	UNITS	CONDITIONS	3KV FORM A			5KV FORM A		
Contact material			Rhodium			Rhodium		
Isolation across contacts	kV	DC or AC peak	3			5		
Max. carry current	A	DC or AC rms (60Hz)	2			2		
Max. switching power	W		10			10		
Max. switching voltage	V	DC or AC peak	20			20		
Max. switching current	A	DC or AC peak	0.5			0.5		
Capacitance across contacts	pF	coil/screen grounded	<0.1			<0.1		
Lifetime	operations	dry switching	10 ⁹			10 ⁹		
Lifetime	operations	10W switching	10 ⁶			10 ⁶		
Contact resistance	mOhms	maximum (typical)	80 (30)			80 (30)		
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
COIL AT 20°C			5V	12V	24V	5V	12V	24V
Must Operate	V	DC	3.7	9	20	3.7	9	20
Must Release	V	DC	0.5	1.25	2	0.5	1.25	2
Operate Time	ms	diode fitted	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
Resistance	Ohms		140	600	1000	140	600	1000
CONSTRUCTION								
Isolation contact to coil	kV	DC or AC peak	3			5*		
to all other terminals	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
ENVIRONMENTAL								
Operating temperature range	°C		-20 to +70			-20 to +70		

*Additional insulation may be necessary

CONTACT US NOW

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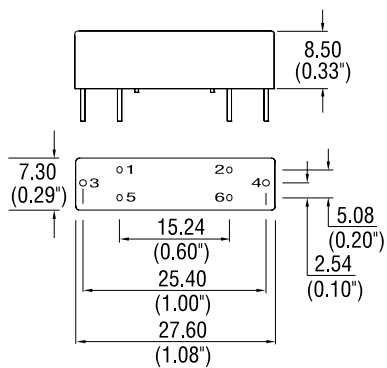
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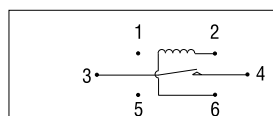
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PART NUMBERING SYSTEM		S	A	R	9	12	05
Reedswitch Size - S	_____						
Contact Form	_____						
A: Form A							
Contact Material	_____						
R: Rhodium							
Moulding Ref. No.	_____						
Coil Voltage	_____						
05: 5V, 12: 12V, 24: 24V							
Isolation Between Contacts	_____						
03: 3kV 05: 5kV							

MECHANICAL

PIN SIZE
PINS 1, 2, 5 & 6 0.7 Square (0.025")
PINS 3 & 4 0.8 (0.031") dia.

CIRCUIT DIAGRAM



high voltage
reed relays

