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S Series

High Voltage relays

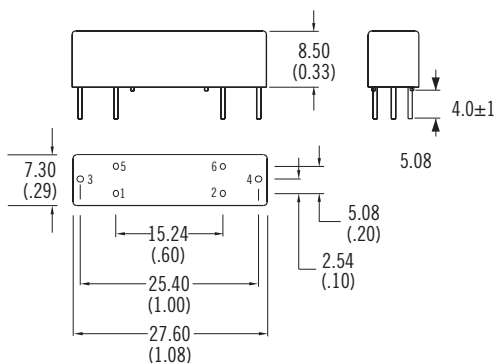


The S series relay was developed for the high voltage ATE market, where printed circuit board space is at a premium. The S series high voltage relay offers a 3kV or 5*kV isolation performance in a 30mm package.

Low contact resistance, through the use of Rhodium contact reed switches, makes the S series suitable for many high voltage applications at DC and low frequency, where performance and reliability are paramount.

Mechanical Dimensions

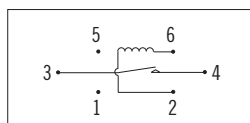
All dimensions are in Millimetres (inches)



PIN SIZE

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

Relay Circuit Diagram



(Viewed from Underside)

Pin 1 is top left, when viewed from above, with respect to part marking

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- Compact footprint
- Designed specifically for High Voltage ATE
- Rhodium contacts for Low Contact Resistance
- 3kV or 5kV* Isolation between contacts and 5kV isolation between contacts and coil
- Excellent lifetime characteristics

Contact Specification	Unit	Condition	3kV SPNO			5kV SPNO		
Contact Material			Rhodium			Rhodium		
Isolation across contacts	kV	DC or AC peak	3			5		
Switching Power Max.	W		10			10		
Switching Voltage Max.	V	DC or AC peak	20			20		
Switching Current Max.	A	DC or AC peak	0.5			0.5		
Carry Current Max.	A	DC or AC peak	1.5			1.5		
Capacitance across contacts	pF	coil to screen grounded	<0.1			<0.1		
Lifetime operations		dry switching	10 ⁹			10 ⁹		
		10W switching	10 ⁶			10 ⁶		
Contact Resistance	m	max (typical)	80 (30)			80 (30)		
Insulation Resistance	min	(typical)	10 ¹⁰ (10 ¹³)			10 ¹⁰ (10 ¹³)		
Coil Specification at 20°C			5V	12V	24V	5V	12V	24V
Must Operate Voltage	V	DC	3.7	9	20	3.7	9	20
Must Release Voltage	V	DC	0.5	1.25	4	0.5	1.25	4
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			140	600	1000	140	600	1000

Relay Specification		3kV SPNO	5kV SPNO
Isolation contact/coil	kV	5	5
Insulation resistance contact to all terminals	min (typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
Environmental			
Operating Temp range	°C	-20 to +70	-20 to +70
Weight	gm	3.1	3.1

Part Numbering System

