



## S8 Relay Series Miniature high voltage relay



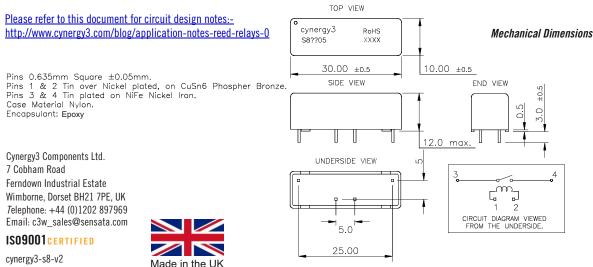
The S8 series is a miniature high voltage reed relay for applications where space saving is a prime consideration.

The coil pins are positioned near the centre of the relay while the contact pins are near the ends to give improved isolation between the High Voltage contacts and the low voltage coil.

- Space saving package
- Isolation Voltage across contacts 4kV or 5kV (dependent on coil voltage)
- Isolation Voltage 7kV contact to coil
- 2.5A carry current
- Up to 1000V switching voltage

Contact Specification	Conditions	5V coil	12V coil	24V coil
Switch action		0.001	SPST (Form	
Material			Rhodium	
Isolation across contacts	kV DC or AC peak	4	4	5
Switching Power Max.	VA (W for V variants)		100	0
Switching Voltage Max.	V	350dc/300ac		peak for V variants)
Switching Current Max.	A DC or AC peak		1.0	
Carry Current Max A	DC		2.5	
Capacitance across pF	coil to screen		0.5 (typical)	
contacts	grounded		ono (c)prout,	
Lifetime operations	dry switching		10 <sup>9</sup>	
	100W switching		10 <sup>7</sup>	
Contact Resistance mC	$\mathbf{\hat{z}}$ max		150	
Insulation Resistance $\Omega$ n			10 <sup>10</sup> (10 <sup>13</sup> )	
Coil Specification				
Must Operate Voltage V	DC	4	9.6	19
Must Release Voltage V	DC	1	2	3
Operate Time ms	diode fitted	1	1	1
Release Time ms	diode fitted	0.5	0.5	0.5
Resistance $\Omega$		120	750	1550
Note. The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)				
Relay Specification				
Isolation contact/coil kV			7	
Insulation resistance contact				
	nin (typical)		TBC	
Environmental				
Operating Temp range °C			-40 to +85	
Storage Temp range °C			-40 to +125	
	l Volts Vdc Isolation acro	ss contacts kV	Max. Switching	g Voltage Vdc (Vac peak)
S8-0504 5		4		350 (300)
S8-0504V 5		4		1000 (1000)
S8-1204 12		4		350 (300)
S8-1204V 12		4		1000 (1000)
S8-2405 24		5		350 (300)
S8-2405V 24	l for particular applications. Please c	5		1000 (1000)

Custom versions can be designed for particular applications. Please contact Cynergy3 with your requirements.



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