



# 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 (dependant on coil voltage)**
- **Isolation Voltage 7kV contact to coil**
- **2.5A carry current**

Contact Specification		5V coil	12V coil	24V coil
Switch action			SPST (Form A)	
Material			Rhodium	
Isolation across contacts	kV DC or AC peak	4	4	5
Switching Power Max.	VA		100	
Switching Voltage Max.	V		350dc/300ac	
Switching Current Max.	A DC or AC peak		1.0	
Carry Current Max	A DC		2.5	
Capacitance across contacts	pF coil to screen grounded		<0.1	
Lifetime operations	dry switching		10 <sup>9</sup>	
	100W switching		10 <sup>7</sup>	
Contact Resistance	mΩ max (typical)		80 (30)	
Insulation Resistance	Ωmin (typical)		10 <sup>10</sup> (10 <sup>13</sup> )	

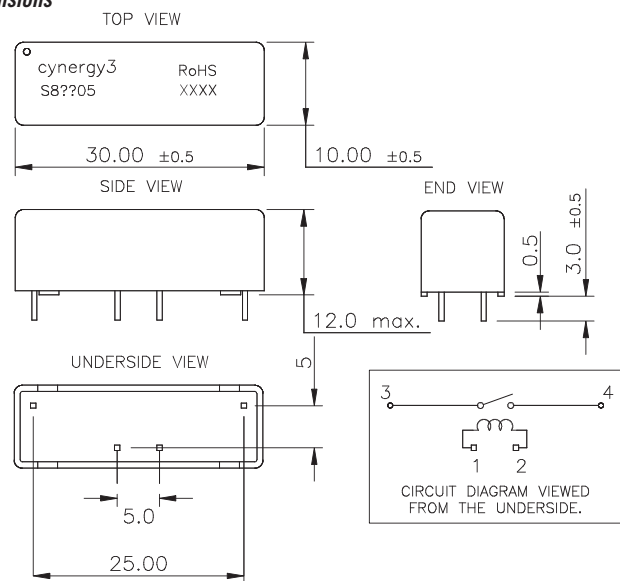
Coil Specification		5V coil	12V coil	24V coil
Must Operate Voltage V	DC	4	9.6	19
Must Release Voltage V	DC	1	2	3
Operate Time	ms diode fitted	1	1	1
Release Time	ms diode fitted	0.5	0.5	0.5
Resistance	Ω	120	750	1550

Relay Specification		5V coil	12V coil	24V coil
Isolation contact/coil kV			7	
Insulation resistance contact to all terminals Ωmin (typical)			TBC	
Environmental				
Operating Temp range °C		-40 to +85		
Storage Temp range °C		-40 to +125		

Standard Parts	Coil Volts Vdc	Isolation across contacts kV
S8-0504	5	4
S8-1204	12	4
S8-2405	24	5

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

### Mechanical Dimensions



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Pins 0.635mm Square ±0.05mm.  
Pins 1 & 2 Tin over Nickel plated, on CuSn6 Phosphor Bronze.  
Pins 3 & 4 Tin plated on NiFe Nickel Iron.  
Case Material Nylon.  
Encapsulant: Epoxy

ISO9001 CERTIFIED

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