



RS stock numbers : 817-2291, 817-2295, 817-2298, 124-5063,  
124-5064, 124-5065



## 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**
- **Up to 1000V switching voltage**

Contact Specification	Conditions	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 (W for -V variants)		100	
Switching Voltage Max.	V	350dc/300ac (1000Vdc & ac peak for -V variants)		
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		0.5 (typical)	
Lifetime operations	dry switching		10 <sup>9</sup>	
	100W switching		10 <sup>7</sup>	
Contact Resistance	mΩ max		150	
Insulation Resistance	Ωmin (typical)		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	Ω	120	750	1550

Relay Specification				
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		

RS Stock No.	Standard Parts	Coil Volts Vdc	Isolation across contacts kV	Max. Switching Voltage Vdc (Vac peak)
817-2298	S8-0504	5	4	350 (300)
124-5063	S8-0504V	5	4	1000 (1000)
817-2291	S8-1204	12	4	350 (300)
124-5064	S8-1204V	12	4	1000 (1000)
817-2295	S8-2405	24	5	350 (300)
124-5065	S8-2405V	24	5	1000 (1000)

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

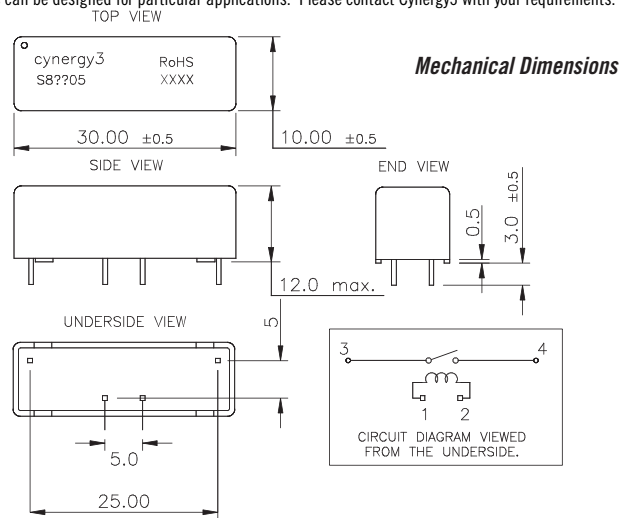
Please refer to this document for circuit design notes:-

<http://www.cynergy3.com/blog/application-notes-reed-relays-0>



Made in the UK

Cynergy3 Components Ltd.  
7 Cobham Road  
Ferndown Industrial Estate  
Wimborne, Dorset BH21 7PE  
Telephone +44 (0) 1202 897969  
Email:sales@cynergy3.com



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

S8 Series 2016

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