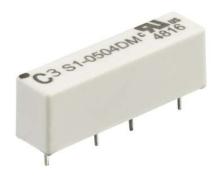


C³

S1 Relay Series



Actual device may differ

The S1 series is a miniature high voltage single-in-line 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.

Please refer to this document for circuit design notes:-

http://www.cynergy3.com/blog/applicationnotes-reed-relays-0

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

*Consult factory for UL ratings

These products have been UL approved for use as per pollution degree 2 classification.

If you require further information as to how this may affect product usage, please contact sales@cynergy3.com.

Made in the UK

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Wimborne, Dorset BH21 7PE, UK
Telephone: +44 (0)1202 897969
Email: c3w_sales@sensata.com

ISO9001 CERTIFIED

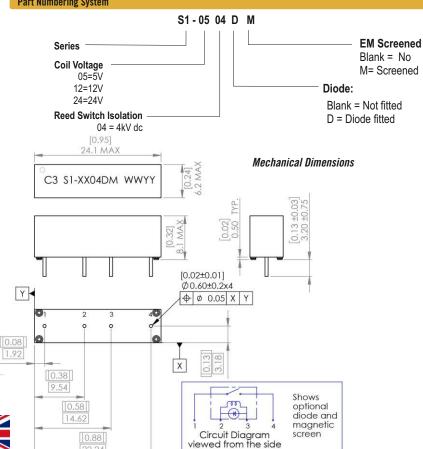
cynergy3-s1-v2

UL Approved* Miniature High Voltage Relay

- Single-in-line package
- 4kV Isolation Voltage across contacts
- Isolation Voltage 5kV contact to coil
- 2.5A carry current
- Up to 350V switching voltage



Contact Specification	Conditions				
Switch action	SPST (Form A)				
Material	Rhodium				
Isolation across contacts	kV DC or AC peak 4				
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			
Lifetime operations	dry switching	switching 10°			
Contact Resistance mg	max 100				
Insulation Resistance Ω_{1}	min (typical)	10 ¹⁰ (10 ¹³)			
Coil Specification (@ 20	0°C)	5V coil	12V coil	24V coil	
Must Operate Voltage V	DC	4	10.8	16	
Must Release Voltage V	DC	1	2	3	
Operate Time ms	s diode fitted	1	1	1 (TBC)	
Release Time ms	s diode fitted	0.5	0.5	0.5 (TBC)	
	(± 10%)	180	500	1000	
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			5		
Insulation resistance con			TD 0		
	min (typical)		TBC		
Environmental			40.1 05		
Operating Temp range °C			-40 to +85		
Storage Temp range °C -40 to +100					
Shock - EN 60068-2-27 11ms Half sine 50g. MIL-STD-202G Method 213B, Test condition A.					
Vibration - EN60068-2-6 Sine vibration 20g peak 10Hz to 2000Hz. MIL-STD-202G Method 204D, Test condition D.					
Part Numbering System					



www.cynergy3.com

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