

## S1 RELAY SERIES

UL APPROVED\* MINIATURE HIGH VOLTAGE RELAY



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 center 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.

## Features

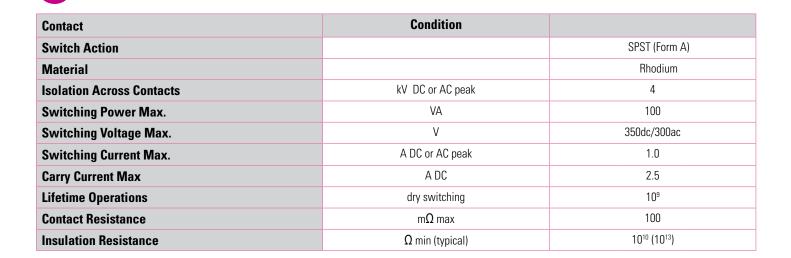
- Single-in-line package
- 4kV Isolation Voltage across contacts
- Isolation Voltage 5kV contact to coil
- 2.5A carry current
- Up to 350V switching voltage

Please refer to this document for circuit design notes: <u>https://www.cynergy3.com/blog/reed-relay-application-notes</u>

Custom versions can be made for particular applications. Please contact Sensata 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 c3w\_sales@sensata.com.





**SPECIFICATIONS** 

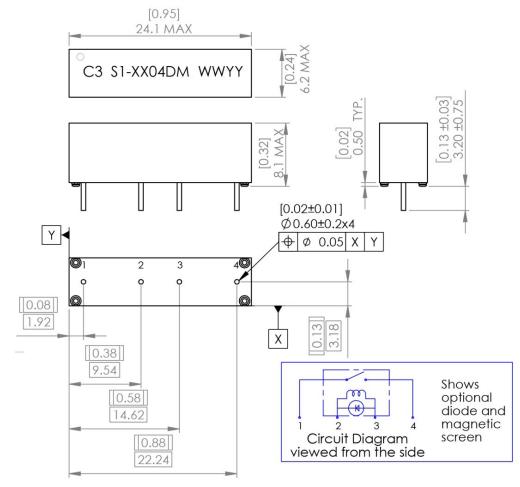


Coil (at 20°C)	Condition	5V coil	12V coil	24V coil								
Must Operate Voltage	V DC	4	10.8	16								
Must Release Voltage	V DC	1	2	3								
Operate Time	ms diode fitted	1	1	1								
Release Time	ms diode fitted	0.5	0.5	0.5								
Resistance	Ω (± 10%)	180	500	1000								
Note. The operate / release 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												
Isolation Contact/Coil	kV DC		5									
Insulation Resistance Contact to all Terminals	$\Omega$ min (typical)											
Environmental Conditions												
Operating Temperature Range	٦°	-40 to +85										
Storage Temperature Range	٦°	-40 to +100										
Shock - EN60068-2-27 11ms Half sine 50g. MIL-STD-202G Metho	od 213B, Test condition A.											
Vibration - EN60068-2-6 Sine vibration 20g peak 10Hz to 2000Hz.	MIL-STD-202G Method 204D, Test condition D.											

DIMENSIONS

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All dimensions are in millimeters.





	<u>S1</u> -	05	04	 M
Series —				
Coil Voltage				
<b>05 =</b> 5V <b>12 =</b> 12V <b>24 =</b> 24V				
<b>Reed Switch</b>	Isolation -			
<b>04 =</b> 4kV dc				
Diode —				
<b>Blank =</b> Not fitt <b>D =</b> Diode fitted				
EM Screene	d ———			
Blank = No M = Screened				

Made in the UK

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**CONTACT US** 

+44 (0)1202 897969

7 Cobham Road, Ferndown Industrial Estate, Wimborne, Dorset,

c3w\_sales@sensata.com

Cynergy3 Components Ltd.

BH21 7PE, United Kingdom

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.