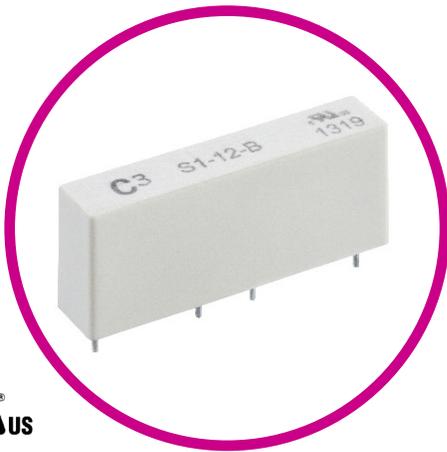


## S1 FORM B SERIES

UL APPROVED\* MINIATURE SIL REED RELAY WITH FORM B (N/C) CONTACTS



The S1 Form B series is a miniature high voltage single-in-line reed relay for applications where space saving is a prime consideration, with normally closed contacts.

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
- 1.5kV Isolation Voltage across contacts
- 1.3A carry current
- Up to 1000V switching voltage

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

Please refer to this document for circuit design notes:

<https://www.cynergy3.com/blog/reed-relay-application-notes>

## SPECIFICATIONS

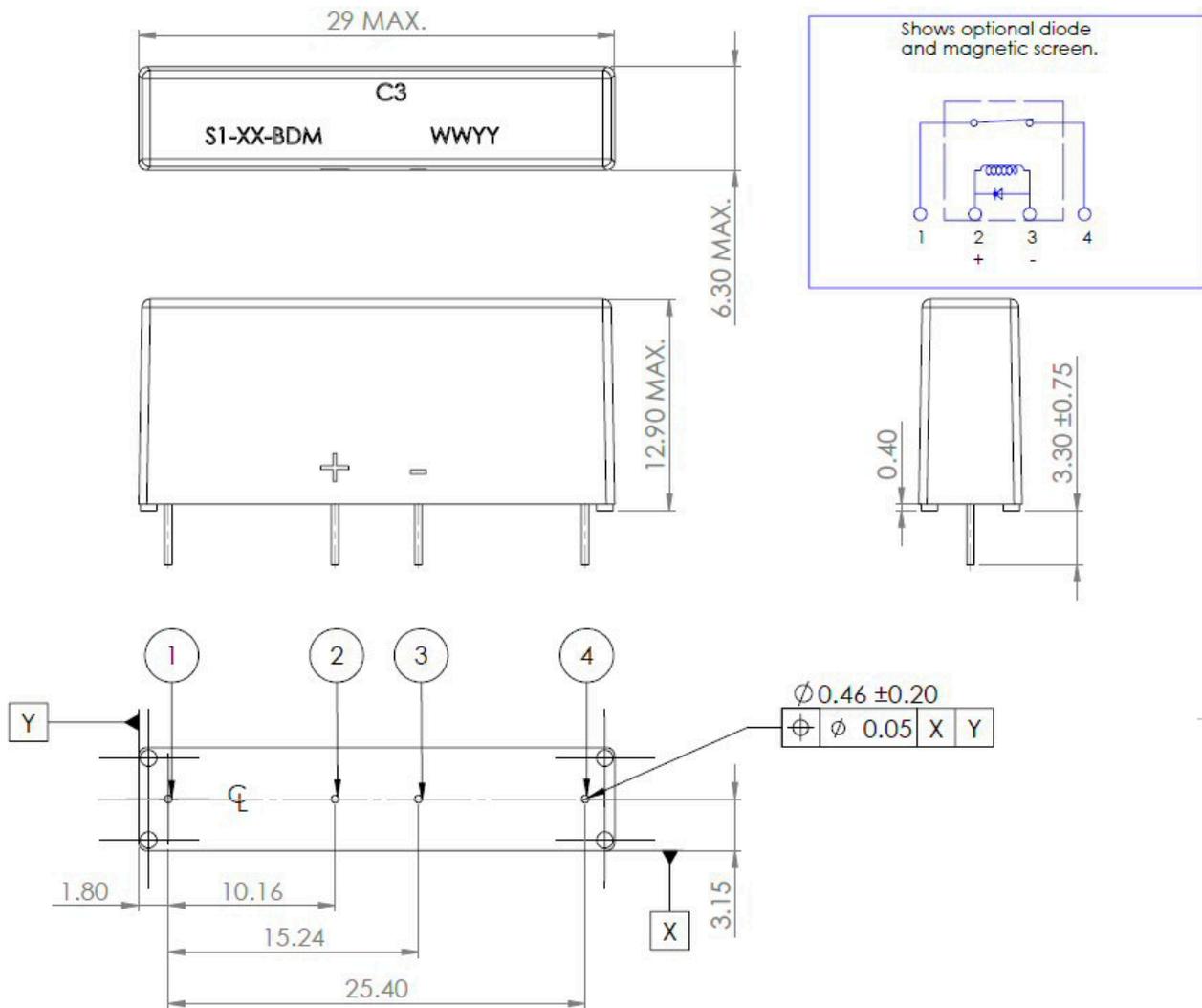
Contact	Condition			
Switch Action		SPST (Form B)		
Material		Rhodium		
Isolation Across Contacts	kV DC or AC peak	1.5		
Switching Power Max.	W	10		
Switching Voltage Max.	V DC	1000		
Switching Current Max.	A DC	0.5		
Carry Current Max	A DC	1.3		
Capacitance Across Contacts	pF coil to screen grounded	0.2		
Contact Resistance	mΩ max	120		
Insulation Resistance	Ω min (typical)	10 <sup>12</sup>		
Coil (at 20°C)		<b>5V coil</b>	<b>12V coil</b>	<b>24V coil</b>
Must Operate Voltage	V DC	3.75	9	18
Must Release Voltage	V DC	0.5	1.2	2.4
Resistance	Ω (± 10%)	780	2000	3000

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	Condition	
Isolation Contact/Coil	kV DC	1.5
Environmental Conditions		
Operating Temperature Range	°C	-40 to +85
Storage Temperature Range	°C	-40 to +100
Shock - EN60068-2-27 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.		

## DIMENSIONS

All dimensions are in millimeters.

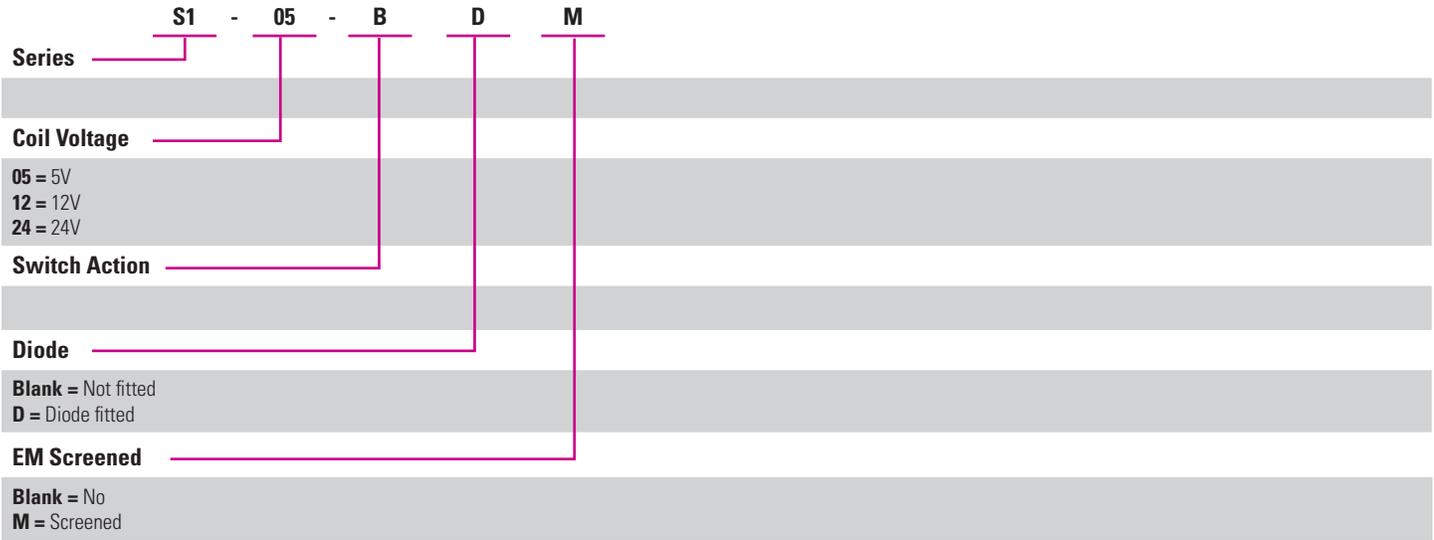


### \*Consult factory for UL ratings

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](mailto:c3w_sales@sensata.com)

# ORDERING OPTIONS

Example : S1-05-BDM



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