

S1 Form B Series

UL Approved* Miniature SIL Reed Relay with Form B (N/C) Contacts

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



Actual device may differ

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 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.

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

*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 sale@cynergy3.com.

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

ISO9001 CERTIFIED

S1 Form B 2019

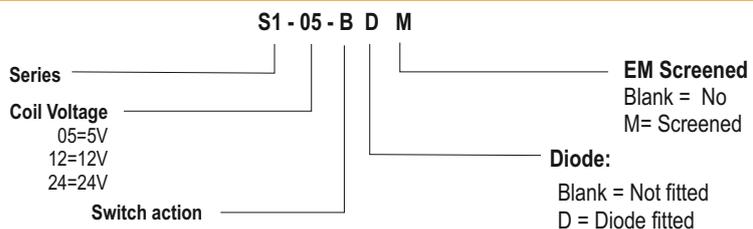
Contact Specification	Conditions	
Switch action		SPST (Form B)
Material		Rhodium
Isolation across contacts	kV DC or AC peak	1.5
Switching Power Max.	W	10
Switching Voltage Max.	V	1000
Switching Current Max.	A DC	0.5
Carry Current Max	A DC	1.3
Capacitance across contacts	pF coil to screen grounded	0.2
Contact Resistance	Ω max	0.1
Insulation Resistance	Ω min (typical)	1.0E+12

Coil Specification (@ 20°C)	5V coil	12V coil	24V coil
Must Operate Voltage V DC	3.75	9	18
Must Release Voltage V DC	0.50	1.20	2.40
Resistance Ω ($\pm 10\%$)	780	2000	3000

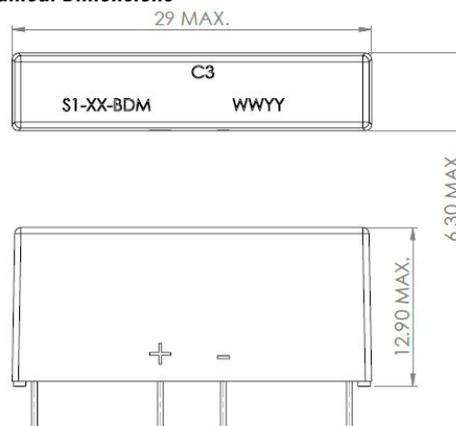
Note: The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)

Environmental	
Operating Temp range °C	-40 to +85
Storage Temp range °C	-40 to +100

Part Numbering System (e.g. S1-05-BDM)



Mechanical Dimensions



Circuit Diagram

