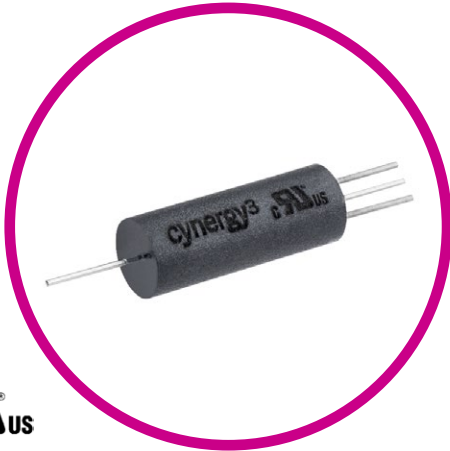




| S2(UL) SERIES

UL APPROVED* AXIAL STYLE REED RELAY



The S2(UL) reed relay series from Cynergy3 has been developed and approved by UL for applications where PCB mounting is not possible.

The relay can be mounted in a variety of methods and orientations to suit particular applications. The terminal pins are flexible enough to allow bending for assembly into equipment.

Available with either a 10W or 50W contact in a pressurised reed switch or a 100VA contact in a vacuum reed switch.

Features

- Variable mounting options
- 10W, 50W and 100VA contact options
- Reliable reed switch contacts

Please refer to this document for circuit design notes:-

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

*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

Contact	Condition	Units	S2-03P	S2-XXP	S2-XXE
Material			Ruthenium	Rhodium	Rhodium
Switch atmosphere			Pressurised	Pressurised	Vacuum
Isolation across contacts		Volts DC	200	500	1000
Switching Power Max.	Resistive load	Watts	10	50	-
Switching Power Max.	Resistive load	VA	-	70	100
Switching Voltage DC Max.	Resistive load	Volts DC	200	350	350
Switching Voltage AC Max.	Resistive load	Volts AC RMS	140	300	300
Switching Current DC Max.	Resistive load	mA DC	250	700	1000
Switching Current AC Max	Resistive load	mA AC RMS	250	500	1000
Carry Current Max.		Amps DC/AC RMS	1	2.5	2.5
Contact capacitance max.	open	Pico Farad (pF)	0.3	0.5	0.5
Initial contact resistance max.	@Nominal coil voltage	Milliohms (mΩ)	100	100	100
Insulation resistance		Ohms (Ω)	10E10	10E10	10E10
Lifetime Operations	Hot switching resistive load	Operations 50% duty cycle	10E7 (12V DC, 4mA)	10E6 (350V DC, 1mA)	10E7 (500V DC, 1mA)
	Dry switching	Operations 50% duty cycle	10E8	10E9	

Contact	Conditions	Units	S2-03P	S2-XXP	S2-XXE	
Coil			3V	5V	12V	24V
Must Operate Voltage	@20°C	Volts DC	2.25	3.7	9	19
Must Release Voltage	@20°C	Volts DC	0.5	1	2	3
Operate time inc bounce	@20°C	Milliseconds	0.1	1.0	1	11
Release time inc bounce	@20°C	Milliseconds	0.07	0.5	0.5	0.5
Resistance	@20°C	Ohms	250	160	1000	1000

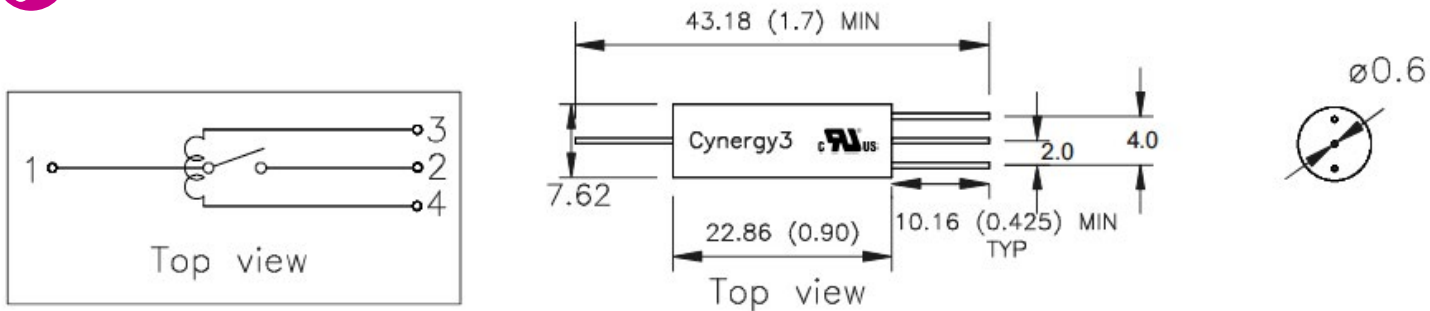
Note. The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)

Relay	Isolation contact/coil	Operating temp range min.	Storage temp range
	Volts DC	°C	°C
		-40 to +85	-40 to +125

Standard Parts	Coil Volts VDC	Switching Power	Isolation VDC	Switch Atmosphere
S2-03PU	3	10W	200	Pressurized
S2-05PU	5	70VA	500	Pressurized
S2-12PU	12	70VA	500	Pressurized
S2-24PU	24	70VA	500	Pressurized
S2-05EU	5	100VA	1000	Vacuum
S2-12EU	12	100VA	1000	Vacuum
S2-24EU	24	100VA	1000	Vacuum

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

DIMENSIONS



Made in the UK

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