



# S2 Relay Series

## Axial style reed relay



The S2 reed relay series from Cynergy3 has been developed 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 leadout wires 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 100W contact in an evacuated reed switch.

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

Contact Specification		SPST (Form A)		
Nominal Coil Voltage		3	5,12,24	5,12, 24
Material			Rhodium	
Switch atmosphere		Pressurised	Pressurised	Evacuated
Isolation across contacts kV	DC or AC peak	0.2	0.5	1.0
Switching Power Max.		10W	50W/70VA	100VA
Switching Voltage Max.	V DC or AC peak	200	350dc/300ac	
Switching Current Max.	A DC or AC peak	DC 0.25	DC0.7/AC0.5	DC 1.0
Carry Current Max	A	1	2.5	
Capacitance across	pF coil to screen contacts grounded		<0.1	
Lifetime operations	dry switching		10 <sup>9</sup>	
	50W switching		10 <sup>7</sup>	
Contact Resistance	mΩ max (typical)		80 (30)	
Insulation Resistance	Ωmin (typical)		10 <sup>10</sup> (10 <sup>13</sup> )	

Coil Specification		3V	5V	12V	24V
Must Operate Voltage	V DC @ 20°C	2.25	3.7	9	19
Must Release Voltage	V DC @ 20°C	0.5	1	2	3
Operate Time	ms diode fitted	0.1	1.0	1.0	1.0
Release Time	ms diode fitted	0.07	0.5	0.5	0.5
Resistance	Ω @ 20°C	250	160	1000	1000

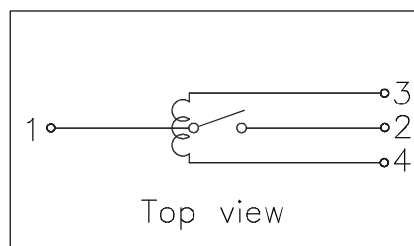
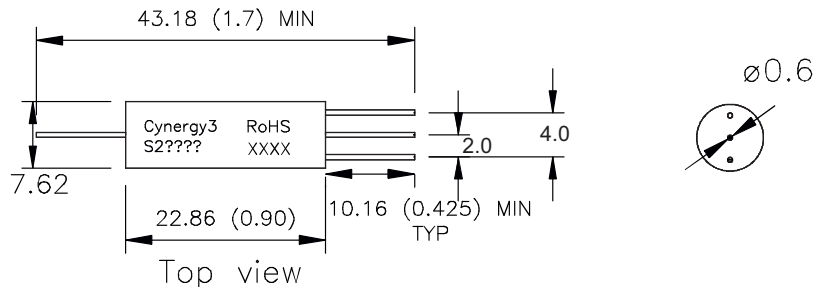
Relay Specification				
Isolation contact/coil	kV	1		
Insulation resistance contact to all terminals	Ωmin (typical)	TBC		
Environmental				
Operating Temp range	°C	-40 to +85		
Storage Temp range	°C	-40 to +125		

Standard Parts	Coil Volts Vdc	Switching Power	Isolation kV
S2-03P	3	10 VA	0.2
S2-05P	5	70 VA	0.5
S2-12P	12	70 VA	0.5
S2-24P	24	70 VA	0.5
S2-05E	5	100 VA	1.0
S2-12E	12	100 VA	1.0
S2-24E	24	100 VA	1.0

Custom versions can be made 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>

### Mechanical Dimensions



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