S2 Relay Series

Axial style reed relay



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

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.

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		10^9	
		50W switching		10^7	
Contact Resistance	mΩ	max (typical)		80 (30)	
Insulation Resistance	Ωmin	(typical)		10^{10} (10^{13})	

Coil Specification			**3V**	**5V**	**12V**	**24V**
Must Operate Voltage	V	DC @ 20ºC	2.25	3.7	9	19
Must Release Voltage	V	DC @ 20ºC	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	@ 20ºC	250	160	1000	1000

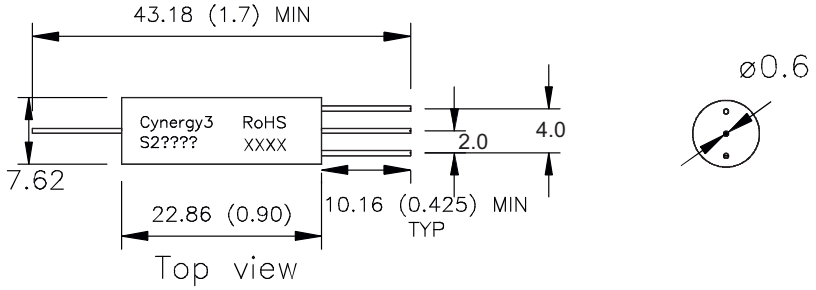
Relay Specification			
Isolation contact/coil	kV		1
Insulation resistance contact to all terminals	Ωmin	(typical)	TBC
Environmental			
Operating Temp range	ºC		-40 to +85
Storage Temp range	ºC		-40 to +125

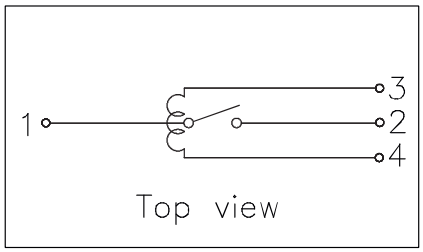
Standard Parts	**Coil Volts Vdc**	**Switching Power**	**Isolation kV**
S2-03P	3	10 VA	0.2
S2-05P	5	70 VA	0.5
S2-12P	12	70 VA	0.5
S2-24P	24	70 VA	0.5
S2-05E	5	100 VA	1.0
S2-12E	12	100 VA	1.0
S2-24E	24	100 VA	1.0

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





Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com

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www.cynergy3.com

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