



## 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.

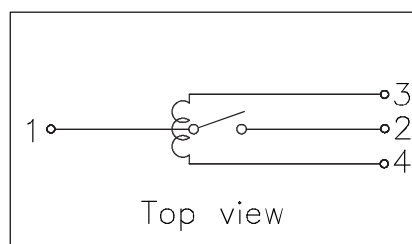
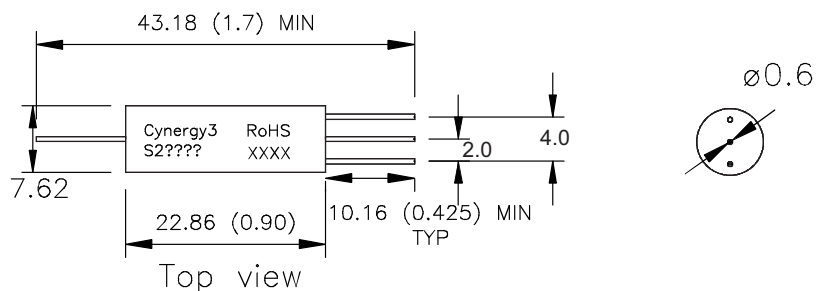
Available with either a 10W or 50W contact in a pressurised reed switch or a 100W contact in an evacuated reed switch.

- 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          |      |      |
| 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                              | 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.

#### Mechanical Dimensions



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

Email:sales@cynergy3.com

ISO9001 CERTIFIED

www.cynergy3.com