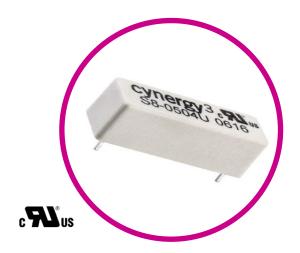


| S8(UL) SERIES

UL APPROVED* MINIATURE HIGH VOLTAGE RELAY



The S8(UL) series is a miniature high voltage reed relay for applications where space saving is a prime consideration.

The coil pins are positioned near the center 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.

Features

- Space saving package
- Up to 1000V switching voltage
- Isolation Voltage 7kV contact to coil
- 2.5A carry current
- Isolation Voltage across contacts 4kV or 5kV (dependent on coil voltage)



| Contact | | Condition | 5V coil | 12V coil | 24V coil | |
|---|----------------------------|-----------------------------|--|--------------------------|--------------|--|
| Switch Action | | | | SPST (Form A) | | |
| Material | | | Rhodium | | | |
| Isolation Across Contacts | kV | DC or AC peak | 4 | 4 | 5 | |
| Switching Power Max. | VA | (W for V variants) | 100 | | | |
| Switching Voltage Max. | V | | 350dc/300ac (1000Vdc & ac peak for V variants) | | | |
| Switching Current Max. | А | DC or AC peak | 1.0 | | | |
| Carry Current Max | А | DC | 2.5 | | | |
| Capacitance Across Contacts | pF | coil to screen grounded | 0.5 (typical) | | | |
| Lifetime Operations | | dry switching | 10 ⁹ | | | |
| | | 100W switching | 107 | | | |
| Contact Resistance | mΩ max | | 150 | | | |
| Insulation Resistance | Ωmin (typical) | | 10 ¹⁰ (10 ¹³) | | | |
| Coil | | | | | | |
| Must Operate Voltage | V | DC | 4 | 9.6 | 19 | |
| Must Release Voltage | V | DC | 1 | 2 | 3 | |
| Operate Time | ms | diode fitted | 1 | 1 | 1 | |
| Release Time | ms | diode fitted | 0.5 | 0.5 | 0.5 | |
| Resistance | Ω | | 120 | 750 | 1550 | |
| Note. The operate / release voltage and c | oil resistance will change | e at a rate of 0.4% per deg | ree C. Values are stated | d at room temperature (2 | 0 degrees C) | |

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| Relay | | Condition | 5V coil | 12V coil | 24V coil | | |
|--|----------------|-----------|-------------|----------|----------|--|--|
| Isolation Contact/Coil | kV | | | 7 | | | |
| Insulation Resistance Contact to all Terminals | Ωmin (typical) | | | | | | |
| Environmental Conditions | | | | | | | |
| Operating Temp Range | °C | | -40 to +85 | | | | |
| Storage Temp Range | °C | | -40 to +125 | | | | |



| | Coil Voltage Vdc | Isolation Across Contacts kV | Max. Switching Voltage Vdc (Vac peak) |
|-----------|------------------|------------------------------|--|
| S8-0504U | 5 | 4 | 350 (300) |
| S8-0504VU | 5 | 4 | 1000 (1000) |
| S8-1204U | 12 | 4 | 350 (300) |
| S8-1204VU | 12 | 4 | 1000 (1000) |
| S8-2405U | 24 | 5 | 350 (300) |
| S8-2405VU | 24 | 5 | 1000 (1000) |

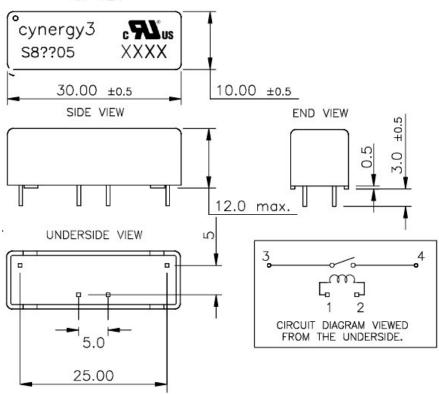
Custom versions can be designed for particular applications. Please contact Sensata with your requirements.





All dimensions are in millimeters.

TOP VIEW



Pins 0.635mm Square ±0.05mm.

Pins 1 & 2 Tin over Nickel plated, on CuSn6 Phospher Bronze.

Pins 3 & 4 Tin plated on NiFe Nickel Iron.

Case Material Nylon. Encapsulant: Epoxy

*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.

Made in the UK

IS09001CERTIFIED Rev: 09/21/23

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