

R8 SERIES

High Voltage Relays

15kV SYSTEM VOLTAGE

Make and Break Load Switching



FEATURES

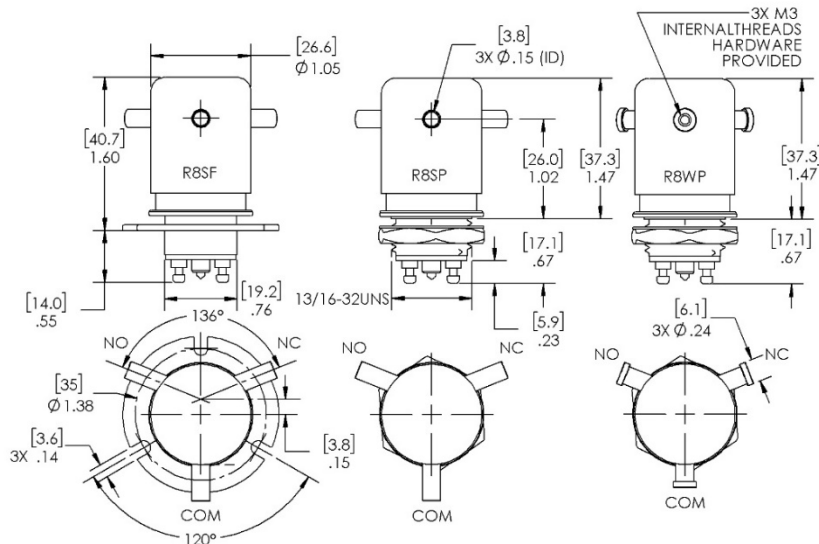
- Form C, SPDT
- Vacuum sealed ceramic
- Low contact resistance
- 30A Continuous current carry
- Tungsten contacts
- HV Connection threaded or solder
- Compact design
- Through panel or flange mounting options
- Meets RoHS 2011/65/EU



PERFORMANCE

| TABLE 1. SPECIFICATIONS | |
|--|--|
| CHARACTERISTIC | MEASURE |
| Contact Arrangement | Form C, SPDT (Single Pole Double Throw) |
| Max Operating Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA) | 15kV dc or 60Hz 12kV at 2.5 MHz 9kV at 16 MHz 7kV at 32 MHz |
| Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA) | 17kV dc or 60Hz |
| Continuous Current DC or 60Hz | 30A |
| Continuous Current 2.5 MHz | 18A |
| Continuous Current 16 MHz | 10A |
| Continuous Current 32 MHz | 6A |
| Capacitance – Across Open Contacts | 0.5 pF |
| Capacitance – Contacts to Ground | 1.0 pF |
| Load Switching (Make and Break) | Limited - (Consult Factory) |
| Coil Hi-Pot (V RMS, 60Hz) | 500V |
| Contact Resistance (Max) | 0.025 Ω @ 1A |
| Operate Time (Max, incl bounce) | 15 ms |
| Release Time (Max) | 9 ms |
| Shock - Operating, 1/2 Sine, 11ms | 50G |
| Vibration 55-500Hz Peak) | 10G |
| Operating Temperature | -55°C to 125°C |
| Mechanical life | 1,000,000 cycles |
| Weight | 84 g |
| COIL (25° C) | MEASURE |
| Nominal Voltage (Vdc) | 12 26.5 |
| Pick-up Voltage, Max (Vdc) | 8 16 |
| Drop-out Voltage (Vdc) | 0.5-5 1.0-10 |
| Coil Resistance (±10%) | 60Ω 270Ω |

PRODUCT DIMENSIONS [mm]



ORDERING KEY

| TABLE 2. PRODUCT NOMENCLATURE | | | |
|-------------------------------|-------------------------|-------------------|-----------------|
| Series | High Voltage Connection | Mounting | Coil |
| R8 | S = Solder Pot | P = Through Panel | Blank = 26.5Vdc |
| | W = Screw | F = Flange | -12V = 12Vdc |

NOTES

- Relay is operated by a coil that changes resistance with temperature: Maximum coil voltage will be lower than indicated at temperatures above 25°C, and higher than indicated at temperatures below 25°C.
- Nominal Coil Voltage for Pick-up Current, Coil Current and Coil Power specifications, Current/Wattage will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C.
- Pick-up Voltage and Drop Out Voltage will be lower than indicated at temperatures below 25°C and higher than indicated at temperatures above 25°C.

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