R8 SERIES

High Voltage Relays

15kV SYSTEM VOLTAGE

Make and Break Load Switching

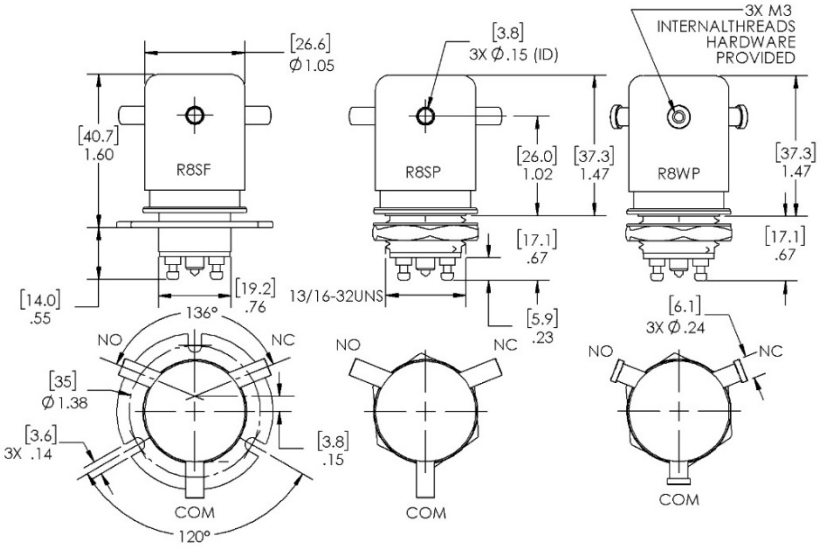
FEATURES

- 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.