High Voltage Relay
RL 42-H

When voltages of up to 10,000 VAC have to be switched in combination with high currents, it is very difficult to find suitable switching elements. This is why SPS electronic has developed special High Voltage Relays. In addition to the aforementioned requirements for high voltages and high currents, it is often also necessary to switch very low voltages in the mV range and currents in the mA range. In combined test systems with safety and functional testing, resistances in the mOhm range often have to be measured. The demands on the quality of the switching contacts are therefore extremely high. A long service life must also be ensured for industrial use.

The relays are used in particular in combined safety and functional test systems for testing electrotechnical products. Electromechanical relays for system and control cabinet construction have proven themselves thousands of times over.

		RL 42-H
Contacts		double pole double throw
Field Coil	Coil Voltage Coil Current	24 VDC (5 °C - 55 °C I 41 °F - 131 °F) 0.20 A (20 °C I 68 °F)
Coil Resistance		115 Ω (20 °C I 68 °F)
Connections		Free cable ends 2 m I 6.6 ft long
Switching Voltage / Capacity		For applications 10000 VAC / max. 10000 VA (ohmic load)
Test Voltage	Contact / Field Coil Contact Isolating Voltage	25000 VDC 25000 VDC 10000 VAC
Switching Current		max. 10 AAC
Continuous Current		max. 30 AAC / DC
Transition Resistance		< 30 MΩ
Switching Frequency		max. 3 / s
Mechanical Switching Cycles		> 1 x 106
Vibration Resistance	10 - 55 Hz/g	5
Shock Strength	g - 11ms	5
Carrier Material		PBT GF30
Protection System		IP 20
Fastening		4-hole-mounting panel
Temperature	Storage / Operating Temperature	-25 °C - 40 °C / 5 °C - 55 °C -13 - 104 °F / 41 °F - 131 °F
Dimensions and Weight (approx.)	Height Width Depth Weight	125 mm I 4.9 in 120 mm I 4.7 in 120 mm I 4.7 in 2 kg / 4.4 lbs