

6mm Interface Relays

RV8 Series

Electromechanical C1D2 (screw terminal)



Solid State (spring clamp)



SPECIFICATIONS

Models	Electromechanical Standard/ Hazardous Locations C1D2	Solid State
Ratings	Class I, Division 2, Groups A, B, C, D, T4A Class I, Zone 2 AEx nA nC IIC T4 Class I, Zone 2 Ex nA nC IIC T4 X Gc UL/c-UL Listed CE	UL/c-UL Listed, CE
Number of Poles	1 pole	1 pole
Contact Configuration	1 form C (SPDT)	1 form A (SPST)
Contact Material	AgNi (Au plating)	MOSFET, Transistor or Triac
Degree of Protection	IP20	IP20
Dielectric Strength	Between Contact and Coil	4,000V AC for 1 min
	Between Pole	1,000V AC for 1 min
Vibration Resistance	Operating Extremes	NO: Frequency 10 to 55Hz, Amplitude 0.5mm NC: Frequency 10 to 55Hz, Amplitude 0.2mm
	Damage Limits	-
Shock Resistance	Operating Extremes	NO: 49m/s ² (5G) NC: 29.4m/s ² (3G)
	Damage Limits	980m/s ² (100G)
Mechanical Life (without load)	Over 10,000,000 operations (operation frequency 18,000 operations per hour)	-
Operating Temperature	-40 to +70°C without freezing (-40 to +55°C for AD110 and AD220 coil voltages)	-20 to +60°C
Operating Humidity	5 to 85% (without condensation)	5 to 85% (without condensation)
Weight (approx.)	30g (RV8H-L), 26g (RV8H-S)	30g (RV8S-L), 26g (RV8S-S)

PRODUCT DESCRIPTION

IDEC 6mm interface relays provide a compact solution for general purpose relay requirements. Now available with solid state models, the RV8 series Interface relays are ideal for PLC and electronic systems, industrial automation, panel builders, assembly machine applications and other applications that require a high switching capability in a compact space. The RV8 series interface relays can be used as interfaces between the controller and the actuator to switch small and medium size loads.

KEY FEATURES

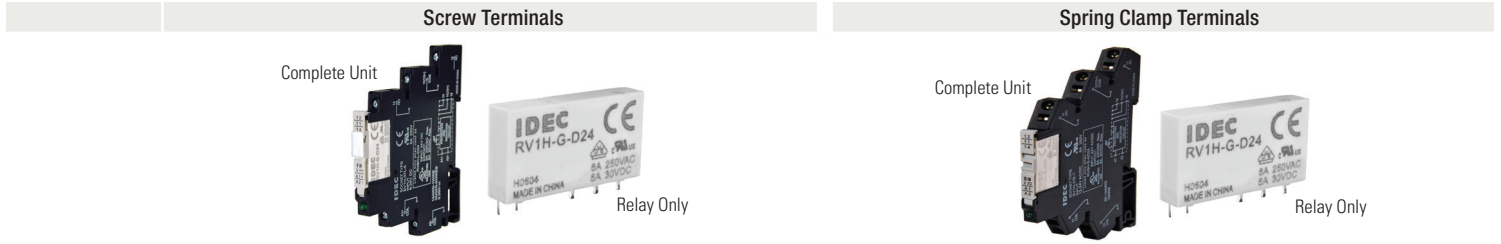
- Class I, Division 2 and Class I, Zone 2 Hazardous Location options (electromechanical relays only)
- Solid State relay versions available
- Only 70mm in height from DIN rail
- Gold-plated contacts (electrical mechanical relays only)
- Pre-assembled relay and DIN mount socket
- Universal screw terminals (flat and phillips) or spring clamp terminals
- Universal AC/DC socket with built-in surge suppression and green LED
- 6A contact rating (electromechanical relays only)
- Lever for easy locking and removal of relay
- Operating temperature of -40°C ~ +70°C (-20°C ~ +60°C for SSR)
- RoHS compliant



(when using combination of RV relay and SV socket)

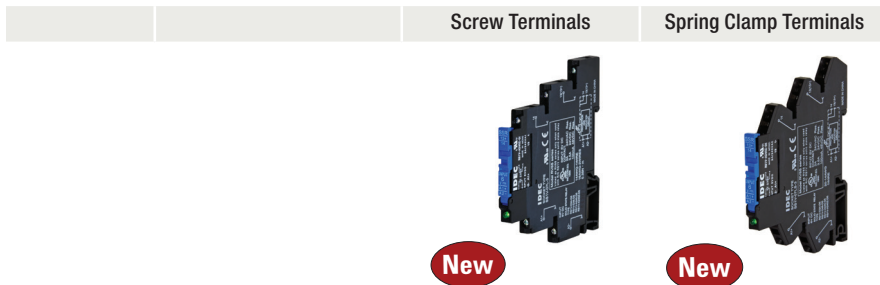
PART NUMBERS

Electromechanical General Purpose and Hazardous Location (Class I, Division 2) Relays



Coil Voltage	General Purpose		Hazardous Location (C1D2)		General Purpose		Hazardous Location (C1D2)		
	Complete Part Number	Replacement (Relay Only)	Complete Part Number	Replacement (Relay Only)	Complete Part Number	Replacement (Relay Only)	Complete Part Number	Replacement (Relay Only)	
DC	6V	RV8H-L-D6	RV1H-G-D5	RV8H-L-D6-C1D2	RV1H-G-D5-C1D2	RV8H-S-D6	RV1H-G-D5	RV8H-S-D6-C1D2	RV1H-G-D5-C1D2
	9V	RV8H-L-D9	RV1H-G-D9	RV8H-L-D9-C1D2	RV1H-G-D9-C1D2	RV8H-S-D9	RV1H-G-D9	RV8H-S-D9-C1D2	RV1H-G-D9-C1D2
	12V	RV8H-L-D12	RV1H-G-D12	RV8H-L-D12-C1D2	RV1H-G-D12-C1D2	RV8H-S-D12	RV1H-G-D12	RV8H-S-D12-C1D2	RV1H-G-D12-C1D2
	18V	RV8H-L-D18	RV1H-G-D18	RV8H-L-D18-C1D2	RV1H-G-D18-C1D2	RV8H-S-D18	RV1H-G-D18	RV8H-S-D18-C1D2	RV1H-G-D18-C1D2
	24V	RV8H-L-D24	RV1H-G-D24	RV8H-L-D24-C1D2	RV1H-G-D24-C1D2	RV8H-S-D24	RV1H-G-D24	RV8H-S-D24-C1D2	RV1H-G-D24-C1D2
AC/DC	12V	RV8H-L-AD12	RV1H-G-D12	RV8H-L-AD12-C1D2	RV1H-G-D12-C1D2	RV8H-S-AD12	RV1H-G-D12	RV8H-S-AD12-C1D2	RV1H-G-D12-C1D2
	18V	RV8H-L-AD18	RV1H-G-D18	RV8H-L-AD18-C1D2	RV1H-G-D18-C1D2	RV8H-S-AD18	RV1H-G-D18	RV8H-S-AD18-C1D2	RV1H-G-D18-C1D2
	24V	RV8H-L-AD24	RV1H-G-D24	RV8H-L-AD24-C1D2	RV1H-G-D24-C1D2	RV8H-S-AD24	RV1H-G-D24	RV8H-S-AD24-C1D2	RV1H-G-D24-C1D2
	48V	RV8H-L-AD48	RV1H-G-D48	RV8H-L-AD48-C1D2	RV1H-G-D48-C1D2	RV8H-S-AD48	RV1H-G-D48	RV8H-S-AD48-C1D2	RV1H-G-D48-C1D2
	60V	RV8H-L-AD60	RV1H-G-D60	RV8H-L-AD60-C1D2	RV1H-G-D60-C1D2	RV8H-S-AD60	RV1H-G-D60	RV8H-S-AD60-C1D2	RV1H-G-D60-C1D2
	110V - 125V	RV8H-L-AD110	RV1H-G-D60	RV8H-L-AD110-C1D2	RV1H-G-D60-C1D2	RV8H-S-AD110	RV1H-G-D60	RV8H-S-AD110-C1D2	RV1H-G-D60-C1D2
	220V - 240V	RV8H-L-AD220	RV1H-G-D60	RV8H-L-AD220-C1D2	RV1H-G-D60-C1D2	RV8H-S-AD220	RV1H-G-D60	RV8H-S-AD220-C1D2	RV1H-G-D60-C1D2

Solid State Relays



Input Voltage	Output Voltage	Complete Part Number	Complete Part Number	
DC	6V	24V DC, 3.5A	RV8S-L-D24-D6	RV8S-S-D24-D6
		48V DC, 0.1A	RV8S-L-D48-D6	RV8S-S-D48-D6
		240V AC, 2A zero cross	RV8S-L-A240Z-D6	RV8S-S-A240Z-D6
		240V AC, 2A random	RV8S-L-A240-D6	RV8S-S-A240-D6
	24V	24V DC, 3.5A	RV8S-L-D24-D24	RV8S-S-D24-D24
		48V DC, 0.1A	RV8S-L-D48-D24	RV8S-S-D48-D24
		240V AC, 2A zero cross	RV8S-L-A240Z-D24	RV8S-S-A240Z-D24
		240V AC, 2A random	RV8S-L-A240-D24	RV8S-S-A240-D24
AC	120V	24V DC, 3.5A	RV8S-L-D24-A120	RV8S-S-D24-A120
		48V DC, 0.1A	RV8S-L-D48-A120	RV8S-S-D48-A120
		240V AC, 2A zero cross	RV8S-L-A240Z-A120	RV8S-S-A240Z-A120
		240V AC, 2A random	RV8S-L-A240-A120	RV8S-S-A240-A120
	240V	24V DC, 3.5A	RV8S-L-D24-A240	RV8S-S-D24-A240
		48V DC, 0.1A	RV8S-L-D48-A240	RV8S-S-D48-A240
		240V AC, 2A zero cross	RV8S-L-A240Z-A240	RV8S-S-A240Z-A240
		240V AC, 2A random	RV8S-L-A240-A240	RV8S-S-A240-A240

800.262.4332
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