

# **INDUSTRIAL SOLID STATE RESISTANCE DETECTOR**

## **MODEL 1213 BASE MOUNT**

## **SPECIFICATIONS**

VOLTAGE: 120VAC

FREQUENCY: 50/60 Hz

INPUT TOLERANCE (VOLTAGE): ± 15% of nominal POWER CONSUMPTION: 10 VA maximum

**TRANSIENT PROTECTION:** Isolation transformer

OUTPUT

**TYPE:** Electromechanical relay

RATING: 10 A @ 240VAC maximum

	Type A Resistive Sensitive 3.0kΩ	Type A Resistive Sensitive 30kΩ	Type B Resistive Sensitive 110Ω	Type C Voltage Sensitive
Control Terminals	E&F (C&D jumpered)	C&F (C&D without jumper)	E&F (C&D not used)	E(+)&F(-) (C&D not used)
Max. open circuit voltage	8VDC	40VDC	2VDC	N/A
Max. short circuit current	10mA	10mA	2.0mA	N/A
Max. control resistance to energize unit	3.0kΩ	30kΩ	110Ω	N/A
Min. control resistance to de-energize unit	6.0kΩ	45kΩ	160Ω	N/A
Max. control voltage	N/A	N/A	N/A	20VDC
Min. control voltage	N/A	N/A	N/A	1.5VDC±10%
Control point which may be grounded	E or F	E or F	F	F

Note: N/A indicates not applicable

#### OPERATING TEMP: 0° to 50°C (32° to 120°F)

**MOUNTING:** Base mount

TERMINATION: Terminal block on face of timer

PHYSICAI HOUSING: Metal

### WIRING





**The function** of a resistive sensitive relay is based on the detec-tion of various resistance values. Output pick-up occurs when both of the unit's sensing probes come in contact with a material or liquid which provides a resistance value lower than the unit's maximum sensitivity level.

**Type A** resistive sensitive relay can be wired for output pick-up at a maximum resistance level of either 3,000 or 30,000 ohms.

**Type B** has a low maximum resistance level for output pick-up at 110 ohms. The unit can be purchased with an optional sensitivity adjustment which allows the resistance level to be set anywhere between 10 and 110 ohms. The type B is ideal in tool or work detection applications requiring coolant solutions which have low resistance.

**Type C** voltage sensitive relay, amplifies a low DC voltage signal by energizing a mechanical output which is capable of switching heavier voltage loads. The type C can be applied directly to the solid state output of instrumentation or logic control equipment to function as a power relay.

ORDERING DATA				
ORDERING CODE 1213 - 1 - A - B - OP1				
BASIC MODEL NUMBER				
<ul> <li>A Resistive sensitive relay with dual control points, 3K ohm or 30K ohm maximum.</li> <li>* B Low resistive sensitive relay with single control point, 110 ohm maximum.</li> <li>C Voltage sensitive control point, 20V maximum, 3V minimum.</li> </ul>				
B Relay 1 N.O., 1 N.C., contacts electrically isolated B1 Relay 2 N.O., contacts electrically isolated B2 Relay 2 N.C., contacts electrically isolated				
OPTIONS (If desired) OP1 Output indication light *OP2 Sensitivity adjustment which allows resistance level to be set anywhere between 10 and 110 ohms (type B only). *Not available on UL units				

Exterior dimensions same as 1214 page 30

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