



INDUSTRIAL SOLID STATE DETECTOR MODEL 1213 BASE MOUNT

KANSON ELECTRONICS, INC.

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

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

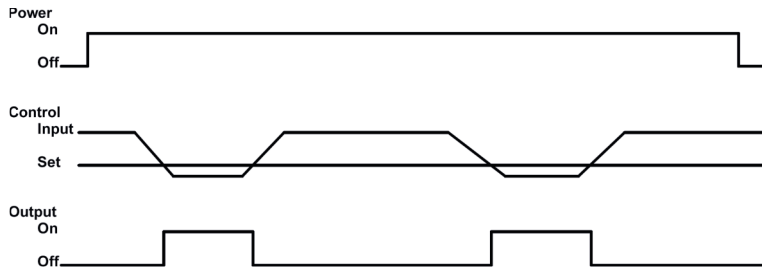
Type B has a low maximum resistance level for output pick-up at 110Ω. The unit can be purchased with an optional sensitivity adjustment which allows the resistance level to be set anywhere between 10Ω and 110Ω. The Type B is ideal in tool or work detection applications requiring coolant solutions which 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 instruments or logic control equipment to function as a power relay.



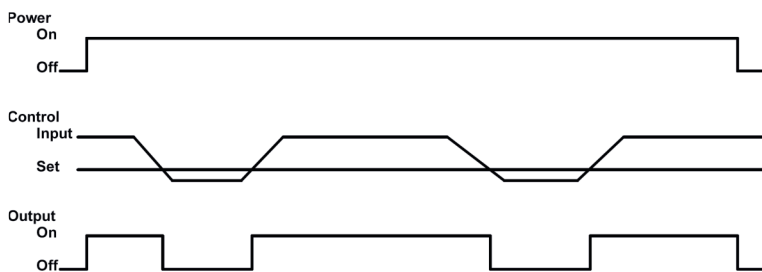
RESISTANCE OR VOLTAGE DETECTOR

FUNCTION



RESISTANCE DETECTION - Type A, B

- Control is independent of unit power.
- When input resistance drops below the set reference resistance the output turns on.



VOLTAGE DETECTION - Type C

- Control is independent of unit power.
- While input voltage is above 3VDC, the output remains on.

SPECIFICATIONS

INPUT

VOLTAGE:	120VAC
FREQUENCY:	50/60Hz
TOLERANCE (VOLTAGE):	±15% of nominal
POWER CONSUMPTION:	10VA Maximum
TRANSIENT PROTECTION:	Isolation Transformer



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SPECIFICATIONS CONT

OUTPUT

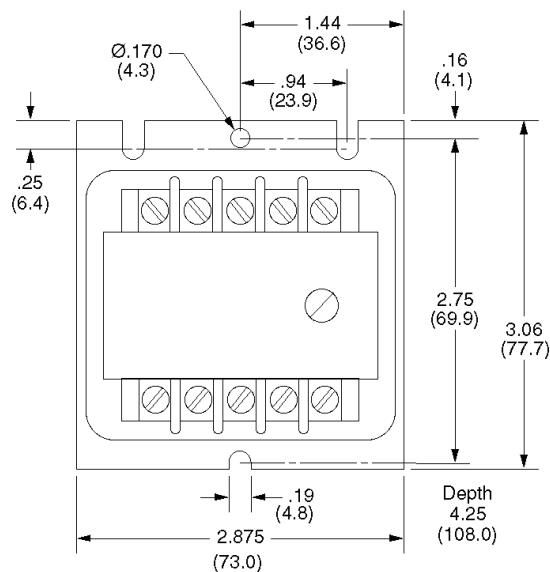
TYPE: Electromechanical relay
RATING: 10A @ 240VAC maximum

	Type A Resistive Sensitive 3.0kΩ	Type A Resistive Sensitive 30.0kΩ	Type B Resistive Sensitive 110kΩ	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	30.0kΩ	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

PHYSICAL

OPERATING TEMP: 0° to 50° C (32° to 122° F)
MOUNTING: Base Mount
TERMINATION: Terminal block on face of timer
HOUSING: Metal

DIMENSIONS INCH (MM)





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WIRING

TYPE A

- A-B Voltage Input (constant)
- C-F Control 30K (energize output, remove jumper)
- E-F Control 3K (energizes output, jumper C & D)
- 1-2 N.O. (except B2, N.C.)
- 3-4 N.C. (except B1, N.O.)

Caution: Never apply voltage to C-D-E-F

TYPE B

- A-B Voltage Input (constant)
- C-D Not used
- E-F Control (energizes output)
- 1-2 N.O. (except B2, N.C.)
- 3-4 N.C. (except B1, N.O.)

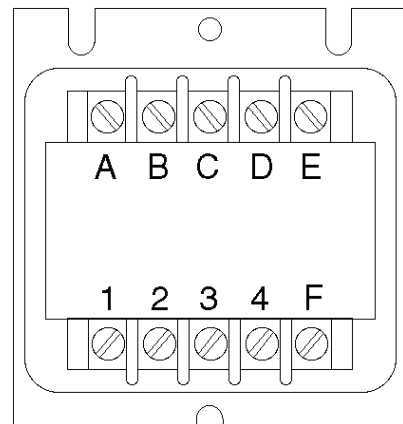
TYPE C

- A-B Voltage Input (constant)
- C-D Not used
- E-F Control E(+) F(-) (energizes output)
- 1-2 N.O. (except B2, N.C.)
- 3-4 N.C. (except B1, N.O.)

Caution: Never apply voltage to C-D-E-F

Caution: Never apply voltage to C-D-E-F

Wiring Terminal Location



ORDERING DATA

ORDERING CODE

1213 - 1 - B - B OP2

BASIC MODEL NUMBER

1213

INPUT VOLTAGE

1 120 VAC

INPUT MODE

- A Resistive sensitive relay with dual control points, 3K ohm or 30K ohm maximum.
- B Low resistive sensitive relay with single control point, 110 ohm maximum.
- C Voltage sensitive control point, 20V maximum, 3V minimum.

OUTPUT

- 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

- OP1 Output indication light
- OP2 Sensitivity adjustment which allows resistance level to be set anywhere between 10 and 110 ohms (type B only).