

INDUSTRIAL SOLID STATE

RESISTANCE DETECTOR
OR
VOLTAGE SENSITIVE RELAY

MODEL 1213
BASE MOUNT

KANSON ELECTRONICS, INC.

SPECIFICATIONS

VOLTAGE: 120VAC FREQUENCY: 50/60 Hz

TOLERANCE (VOLTAGE): ± 15% of nominal POWER CONSUMPTION: 10 VA maximum TRANSIENT PROTECTION: Isolation transformer

DUTPUT

INPUT

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

HOUSING: Metal

WIRING

TYPE A

PHYSICA

A-B Voltage input (constant)

C-F Control 30K (energizes 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 C

A-B Voltage input (constant)
C-D Not used

C-D Not used E-F Control E(+) F (-) (energizes output)

1-2 N.O. timed (except B2, N.C.)

8-4 N.C. (except B1, N.O.)

TYPE B

A-B Voltage input

(constant)

C-D Not used

E-F Control

(energizes output)N.O.

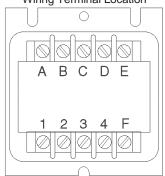
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(except B2, N.C.)

3-4 N.C. (except B1,N.O.)

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

Wiring Terminal Location



DIMENSIONS Inches (millimeters)

Exterior dimensions same as 1214 page 37



RESISTANCE OR VOLTAGE DETECTOR

The function of a resistive sensitive relay is based on the detection 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 OP1

1213 - 1 - A

BASIC MODEL NUMBER

1213

1213 UL

INPUT VOLTAGE

1 120VAC

TYPF

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 (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).