



RTI

Resistance to Current

The RTI converts a 3-wire resistance signal to an analog output by using current loop power (two wire). The RTI is reverse polarity protected and offers linear tracking of a 3-wire resistance input against the standard output signal of a 4-20 mA (current source). The RTI is small in size and self-powered. These features lend its use to remote mounting for feedback signals from a valve or damper motor indicating its position.

Applications: Solid State Reliability, Convert Feedback Pot Resistance on Actuators to Current Signal, Photocell Transmitter

The RTI is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's website, which is: www.workaci.com.

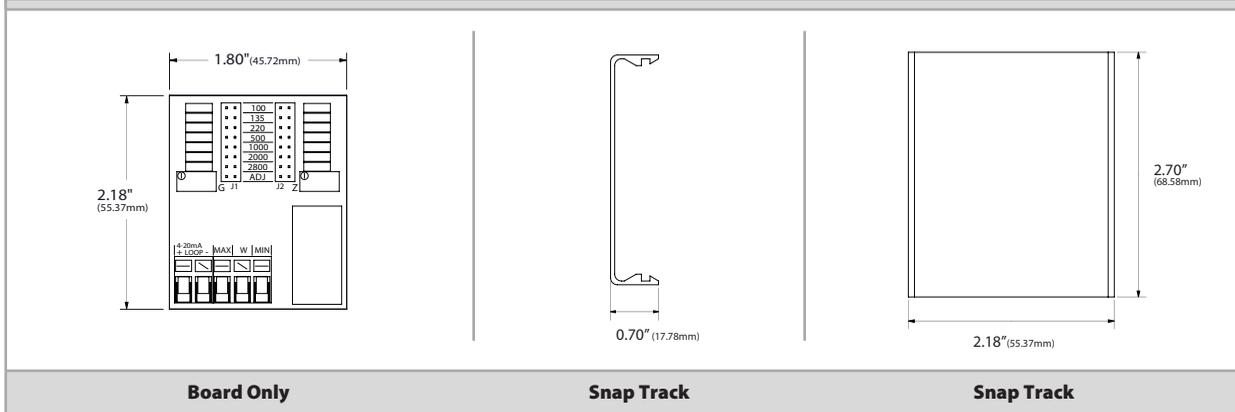
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VDC +/-10%
Input Type:	3-wire potentiometer only
Input Resistance Ranges:	Seven (7) fixed ranges: 0-100, 0-135, 0-220, 0-500, 0-1000, 0-2000 & 0-2800Ω Also includes an 8th adjustable input range: RTI-1: 0 to (100 to 500) Ω RTI-2: 0 to (500 to 2200) Ω RTI-3: 0 to (2200 to 5000) Ω
Current Draw:	Min 4 mA (wiper to MIN), max 20 mA Output (wiper to MAX), Signal of 4 to 20 mA
Accuracy:	+/- 1% of the adjustable 16 mA span, +/- 2% of the fixed 16 mA span
Operating Temperature Range:	35 to 120°F (1.7 to 48.9°C)
Operating Humidity Range:	10 to 95% non-condensing
Connections:	45° Captive Screw Terminal Blocks
Wire Size:	16 (1.31 mm ²) to 26 AWG (0.129 mm ²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Storage Temperature:	-10 to 150°F (-23.3 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 2.18" (W) 1.80" (H) 1.00" (55.37 x 45.72 x 25.4 mm)
Product Weight:	0.16 lbs. (0.072 Kg)
Agency Approvals:	RoHS2, WEEE





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **RTI1** -OR- **102911**

Model #	Item #	Fixed Range (Ohms)	Adjustable Range (Ohms)
RTI1	102911	0-100, 0-135, 0-220, 0-500, 0-1000, 0-2000 & 0-2800 Ω	0 to (100 to 500) Ω
RTI2	102912	0-100, 0-135, 0-220, 0-500, 0-1000, 0-2000 & 0-2800 Ω	0 to (500 to 2200) Ω
RTI3	102913	0-100, 0-135, 0-220, 0-500, 0-1000, 0-2000 & 0-2800 Ω	0 to (2200 to 5000) Ω

ACCESSORIES

Model # Example: **A/DO008** -OR- **142583**

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W
A/DRC 2.7 X 2.18	142626	DIN Rail Adapter Kit
ENC1	102472	20 Gauge Metal Enclosure, Designed to Hold Interfaces Products

