

## TOA1 Series Sensor

SUPERSEDES: New

EFFECTIVE: August 7, 2012

### TOA1 Sensor

The iWorX TOA1 Sensor is an outdoor enclosure with a 10K Ohms digital thermistor temperature sensor. The sensor measures the outdoor temperature and provides the measurement as input information to a controller such as the ASM2 and BLMC.

The thermistor's higher resistance creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.

#### Features

- Low-profile packaging.
- Directly connects to selected iWorX controllers via low-cost shielded twisted-pair cable.
- Output: 10K Ohm @ 77° F.

### Specifications

#### Sensor

##### Temperature Sensor (TOA1 Series)

- Type: Precision thermistor 10K @ 77°F (25°C), Type III
- Accuracy: ±0.36 °F (0.2 °C)
- Range: -40 to 158°F (-40 to 70 °C)
- Humidity: 0 to 90% RH, non-condensing

#### General

##### Enclosure

- Watertight outdoor compatible
- Dimensions: 8.34 H x 4.00 W x 2.25 D in (212 x 102 x 57 mm) including supply conduit; enclosure cover is 4.0 W x 4.0 H in (102 x 102 mm)
- Conforms to NEMA-1 requirements

##### Weight

- Sensor Weight: 0.5 pounds (0.226 kilograms)
- Shipping Weight: 0.75 pounds (0.340 kilograms)

##### Wiring Terminals

- Two terminals. AWG #18 to #24 (0.823 mm<sup>2</sup> maximum) wire

##### Wire Length

- 500 feet max. (152.4 meters) between sensor and controller

## **CONTROLS MADE EASY®**

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