TZ Sensors™

Model Numbers: 8115CF to 8118CF

TZ Sensors are extremely cost-effective providing environmental monitoring within the TZ Centurion network at the cabinet enclosure level across a range of operating conditions: temperature, humidity, door contact and leak detection.

▶ The TZ Temperature Sensor measures the ambient temperature within the enclosure or cabinet. Its temperature sensor circuit is designed to measure temperatures between 15°C to 60°C (5°F to 140°F).

▶ The TZ Relative Humidity Sensor contains a circuit designed to measure relative humidity between 5% and 95%.

▶ The TZ Contact Sensor is a magnetic reed switch. When properly installed it allows the connected TZ device to determine when a door is open or closed.

▶ The TZ Leak Detection Sensor is a sealed optical device which can detect the presence of liquids.

features

▶ Measures temperature

▶ Measures Relative Humidity

▶ Determines door open/closed status

▶ Detects presence of liquid

▶ Data presented via web page interface

benefits

▶ TZ sensors use the decentralized intelligence of TZ locking devices and the network infrastructure to provide a granular and low cost environmental monitoring solution

▶ Contact closure sensors enable the open closed status of a door to be reported in an audit trail

▶ The small physical size of the devices have minimum impact on cabinet space and installed equipment

specifications overview

Specifications subject to change to suit particular application requirements

physical and mountings

Dims:

8115CF: 2 pieces – 34mm x 14mm x 9mm (1.34" x 0.5" x 0.35") w/ 1220mm (48") connector

8116CF / 8117CF: 35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") w/ 2000mm (78") connector

8118CF: 35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") with 216 mm (8.5") extension.

Weight: 540 g (1.2 lbs) | 12 g (0.4 oz) | 12 g (0.4 oz) | 12 g (0.4 oz) plus 30 g (1.0 oz)

Mounting: Double stick tape

Sensors (range and accuracy)

8115CF: Open/Closed

8116CF: Temperature (± 2C between -10C and 70C)

8117CF: Relative Humidity (± 3% between 5% and 95%)

8118CF: High in air, sinks current in liquid

environmental (applies to all units)

Operating temperature: -15°C to +85°C (5°F to 235°F)

Non combustible

Ingress protection: IP 20

electrical

Supply voltage: 9.0 – 32 VDC – powered via TZ Device Network

Current Usage: < 4 mA | 4 mA | < 4 mA | < 15 mA Sinks up to an additional 10 mA

8115CF: Normally open, dry contact

8116CF: Pinout: NC, GND, NC, Temperature

8117CF: Pinout: V+, GND, Relative Humidity, NC

8118CF: Pinout: V+, GND, Signal, NC Additional Pinout: V+, GND, Signal
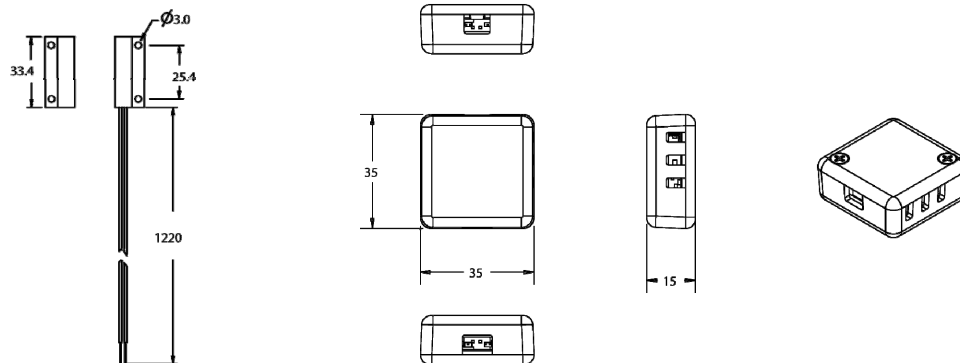
standards compliance (applies to all units)

FCC Part 15 Class B, CE, UL (c-us) per IEC/UL/CSA 60950-1
RoHS compliant, One Year Limited Warranty

dimensions (mm)

8115CF: Door Sensor

8116CF | 8117CF | 8118CF

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