

# AC Voltage Detector with Relay

ENVIROMUX®

## Monitor the presence or absence of line voltage

- Monitors the presence or absence of AC voltage, 50-250 VAC.
- 2-position screw-terminal connection.
- Supports 2-wire sensor cable up to 1,000 feet (305 meters).
- Available with a standard US 120V 10A NEMA 5-15 plug or universal 250V IEC C14 socket.
- Examples of interfacing devices:
  - Electrical sources
  - Power couplings
  - Line power
  - UPS, power supplies
  - Sump pumps
  - Intrusion Prevention Systems (IPS), Intrusion Detection Systems (IDS)
  - Sensors, such as: strain gauge, pressure transducer, RTD, thermistor, thermocouple, piezo electric sensors, photoresistor, industrial accelerometer, any kind of variable resistor, and any kind of sensor that outputs a voltage.



**E-ACVDRLY-515**

The ENVIROMUX® AC Voltage Detector with Relay detects voltage from 50VAC to 250VAC when connected to an environmental monitoring system with dry contact inputs, battery, sensor, or other device. The internal relay closes when sensing voltage above 60VAC and opens when sensing voltage 55VAC and below.

## Specifications

- Measurement range: detects mains voltage from 50 to 250 VAC.
- Measurement indication: Alarm or Normal.
- Sensor type: open/closed contact switch.
- Includes internal relay.
  - Maximum close voltage: 90VAC @ 60Hz, 108VAC @ 50Hz
  - Minimum open voltage: 10VAC @ 60Hz, 12VAC @ 50Hz
- Includes 6-foot (1.8-meter) 2-wire cable to connect to an environmental monitoring system.
- E-ACVDRLY-515: Standard US 120V 10A NEMA 5-15 plug on attached 5.5-foot (1.67-meter) cord.
- E-ACVDRLY-C14: Universal 250V IEC C14 socket on attached 6-inch (0.15-meter) cord.
- Maximum switching current: 500mA
- Maximum hold-off voltage: 250VDC
- Galvanic isolation: 1.5kVDC/peak AC
- Operating temperature: 32 to 140°F (0 to 60°C).
- Storage temperature: 32 to 158°F (0 to 70°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.
- MTBF: 3,539,338 hrs
- Regulatory approvals: CE, RoHS

### AC Voltage Detector with Relay

NTI Part #	Description
E-ACVDRLY-515	AC Voltage Detector with Relay, NEMA 5-15 plug
E-ACVDRLY-C14	AC Voltage Detector with Relay, IEC C14 socket