

E-CDx-y Chemical Detection Sensor

The E-CDx-y Chemical Detection Sensor is used to reliably sense the presence of acids, bases, and other conductive liquids. The cable's abrasion-resistant polymer core increases its strength and durability. The cable's sensing wires are enclosed in a non-conductive polymer mesh to help eliminate false alarms.

The chemical sensing cable (x) is available in standard lengths (1,10,50 and 100 foot) but custom lengths over 100 feet (30 meters) up to 1000 feet (305 meters) are available. The two-wire connecting cable (y) is available in 5/10/20/50/100 feet but custom lengths over 100 feet (30 meters) up to 1000 feet (305 meters) are available.

Features:

- For detecting the presence of chemical liquid.
 - Reliably senses acids, bases, and other conductive liquids.
- Detects liquid depth >0.1" (2.5 mm).
- Minimum puddle: 0.6" (15 mm) diameter.
- Chemical resistant – cable functions normally after seven-day exposure to:
 - Fresh deionized water
 - Tap water
 - Sulfuric acid, H₂SO₄ (98%)
 - Sulfuric acid, H₂SO₄ (50%)
 - Hydrochloric acid, HCl (37%)
 - Sodium hydroxide, NaOH (10%)
 - Aqua regia, HNO₃+3 HCl
 - Ethylene glycol, C₂H₆O₂ (60% in DI water)
- Voltage and current:
 - Open Circuit: 5VDC max @ 1μA.
 - Closed circuit: <300mV @ 10.7mA.
- Available chemical sensor cable (x) lengths: 1/10/50/100 feet.
 - 100% waterproof
 - Contact an NTI product consultant for cable lengths over 100 feet (30 meters) – supports up to 1,000 feet (305 meters).
- Available 2-wire cable (y) lengths: 5/10/20/50/100 feet.
 - Plenum rating: CL2P (UL)
 - Diameter: 0.25 in (6.35mm)
 - Contact an NTI product consultant for cable lengths over 100 feet (30 meters) – supports up to 1,000 feet (305 meters).
- Use self-adhesive clips (E-CLPxx-LD) to prevent sensor rope cable from shifting after installation
- Regulatory approvals: CE, RoHS

