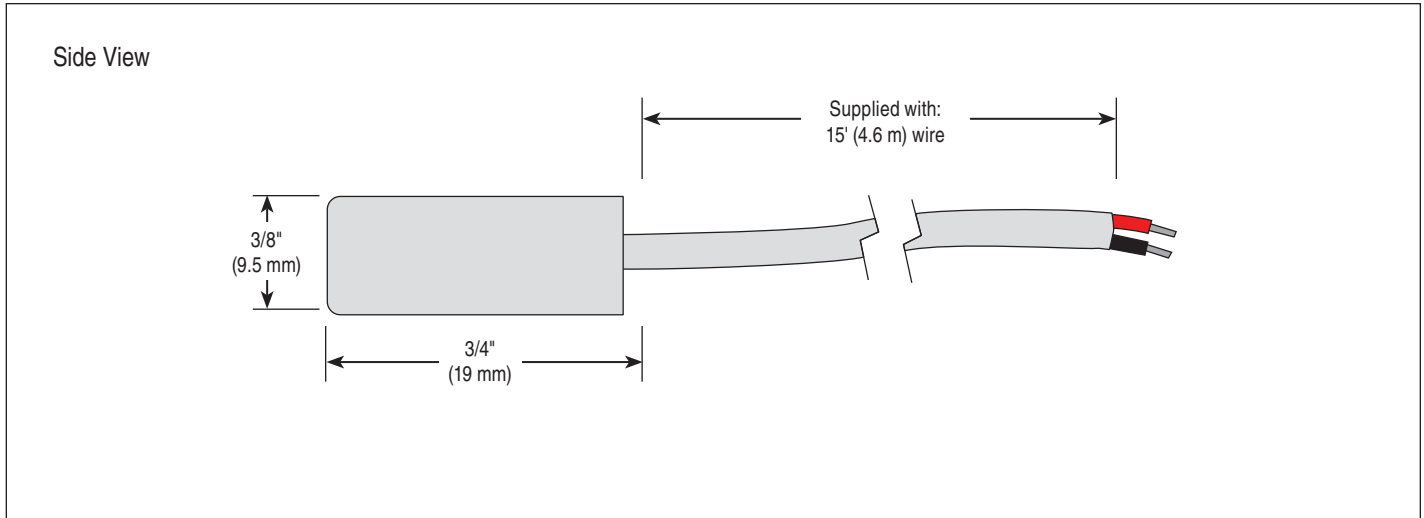




Job _____ Designer _____ Contact _____

The Universal Sensor 078 is a temperature sensor with a stiff jacketed cable, making it a perfect choice for easy installation into conduit or domestic hot water tank temperature wells. The sensor can also be strapped to a pipe to measure supply or return temperatures.



Specifications

| Universal Sensor 078 | |
|----------------------|--|
| Literature | 078_C, 078_D |
| Packaged weight | 0.35 lb. (160 g) |
| Dimensions | 3/8" OD x 3/4" (9.5 OD x 19 mm) |
| Sensor material | Brass sleeve, 15' (4.6 m) 18 AWG, HDPE jacket, 300 V cable |
| Operating range | -40 to 221°F (-40 to 105°C) |
| Sensor | NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892 |
| Warranty | Limited 3 Year (See 078_D for full warranty) |

Features

- 10K thermistor
- Stiff jacketed cable for easy wiring in conduit

Temperature vs. Resistance

| Temperature | | Resistance | Temperature | | Resistance | Temperature | | Resistance | Temperature | | Resistance |
|-------------|------|------------|-------------|-----|------------|-------------|------|------------|-------------|------|------------|
| °F | °C | Ω | °F | °C | Ω | °F | °C | Ω | °F | °C | Ω |
| -40° | -40° | 336,479 | 68° | 20° | 12,493 | 176° | 80° | 1,255 | 284° | 140° | 235 |
| -31° | -35° | 242,681 | 77° | 25° | 10,000 | 185° | 85° | 1,070 | 293° | 145° | 208 |
| -22° | -30° | 176,974 | 86° | 30° | 8,057 | 194° | 90° | 915 | 302° | 150° | 186 |
| -13° | -25° | 130,421 | 95° | 35° | 6,531 | 203° | 95° | 786 | 311° | 155° | 166 |
| -4° | -20° | 97,081 | 104° | 40° | 5,326 | 212° | 100° | 678 | 320° | 160° | 148 |
| 5° | -15° | 72,957 | 113° | 45° | 4,368 | 221° | 105° | 587 | 329° | 165° | 133 |
| 14° | -10° | 55,329 | 122° | 50° | 3,602 | 230° | 110° | 510 | 338° | 170° | 119 |
| 23° | -5° | 42,327 | 131° | 55° | 2,986 | 239° | 115° | 445 | 347° | 175° | 107 |
| 32° | 0° | 32,650 | 140° | 60° | 2,488 | 248° | 120° | 389 | 356° | 180° | 97 |
| 41° | 5° | 25,392 | 149° | 65° | 2,083 | 257° | 125° | 341 | 365° | 185° | 87 |
| 50° | 10° | 19,901 | 158° | 70° | 1,752 | 266° | 130° | 301 | 374° | 190° | 79 |
| 59° | 15° | 15,712 | 167° | 75° | 1,480 | 275° | 135° | 265 | 383° | 195° | 72 |

SPECIAL REQUIREMENTS

N / A

