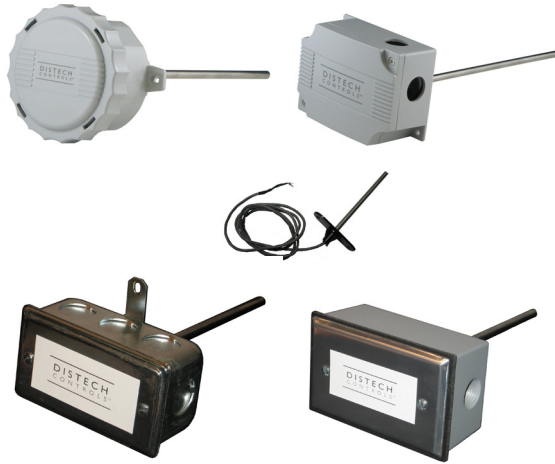




# TS-D Sensor Series

## Duct Temperature Sensors



### Overview

The TS-D Series are duct temperature sensors. These devices provide precision temperature sensing of ducts. The TS-D single point duct temperature sensor utilizes a precision sensor encapsulated in a 6.35 mm (0.25") OD, 304 series stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resistance to moisture penetration.

### Applications

- Used for measuring temperature on supply and return ducts
- Incorporated in chillers to monitor temperature gradients
- Used in heat exchangers and air handling units to provide temperature sensing for control of heating / cooling coils

### Features & Benefits

- Economical
- Ease of Installation
- Sensors are hermetically sealed
- Proven long stability and performance
- Probes made of corrosion resistant 304 stainless steel

# Model Selection

		TS-	D	XX	002
Mounting Style	D = Duct				
Enclosure	XX = No enclosure PS = Plastic square enclosure PR = Plastic round enclosure MJ = Metal junction box enclosure MW = Metal weatherproof enclosure				
Probe Length	002 = 2" 004 = 4" 006 = 6" 008 = 8" 012 = 12" 018 = 18"				

# Product Specifications

## Environmental

Operating Temperature	-20°C to 105°C; -4°F to 221°F
Storage Temperature	-20°C to 105°C; -4°F to 221°F
Relative Humidity	0 to 95% Non-condensing

## Bracket

Material	ABS - UL94-5VB
Color	Black
Shipping Weight	0.20lbs (0.091kg)

## Electrical

Dissipation Factor	2.2mW/K (Thermistor)
Max Power @ 25°C (77°F)	75mW (Thermistor)
Thermal Time Constant	Less than 10s (Thermistor)
Wire Material (TS-DXX Series)	Plenum rated FT-6
Wire Length (TS-DXX Series)	3.05 m (10')

## Temperature Sensor

Sensor Type <sup>1</sup>	10kΩ NTC thermistor, Type 2
Accuracy	±0.2°C; ±0.36°F
Probe Sensing Range	-20 to 105°C (-4 to 221°F)
Probe Material	304 Series Stainless Steel
Probe Dimension	6.35 mm (0.25") Diameter

## Enclosure

Enclosure Type	Material
<input type="checkbox"/> Plastic square enclosure (PS)	Grey ABS; Type: UL94-5VB; IP61 (NEMA 2)
<input type="checkbox"/> Plastic round enclosure (PR)	Grey ABS; Type: UL94-5VB; IP65/ NEMA4X
<input type="checkbox"/> Metal junction box enclosure (MJ)	Galvanized Steel Type: IP50 (NEMA1)
<input type="checkbox"/> Metal weatherproof enclosure (MW)	Cast Aluminum Type: IP64 (NEMA3X)

### Shipping weight:

<input type="checkbox"/> Plastic square enclosure (PS)	0.60 lbs (0.2727 kg)
<input type="checkbox"/> Plastic round enclosure (PR)	0.60 lbs (0.2727 kg)
<input type="checkbox"/> Metal junction box enclosure (MJ)	1.00 lbs (0.4550 kg)
<input type="checkbox"/> Metal weatherproof enclosure (MW)	1.20 lbs (0.5455 kg)

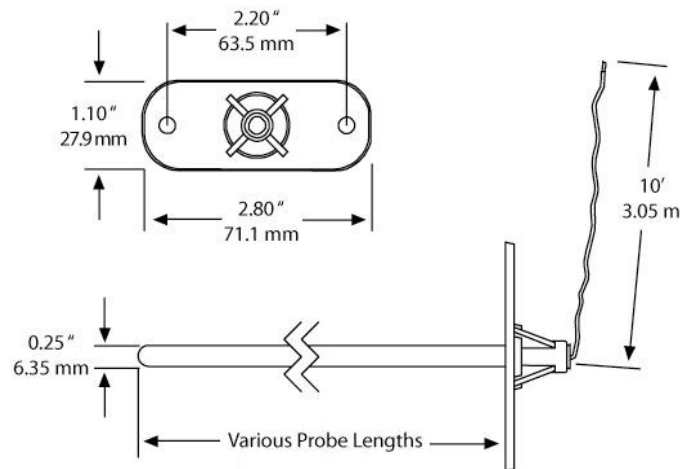
## Agency Approvals

Material <sup>2</sup>	UL94
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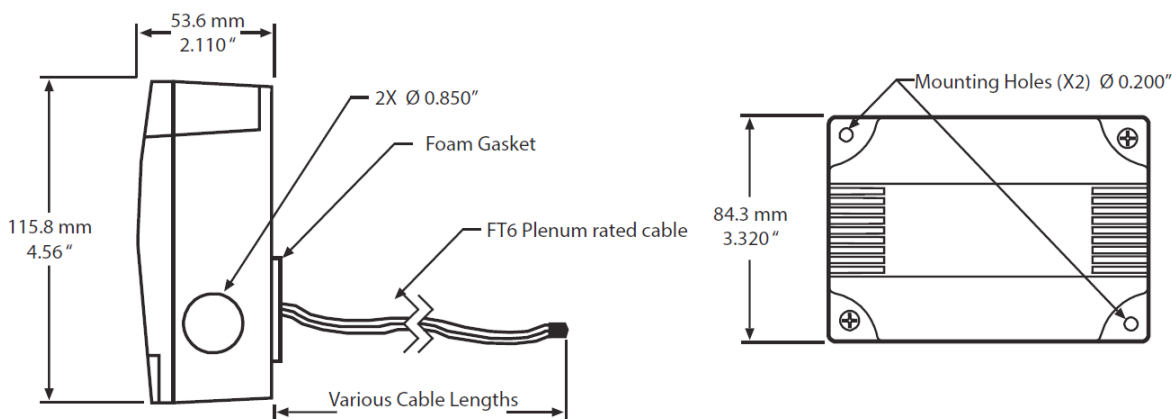
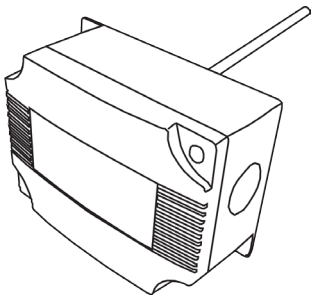
1. Temperature sensor type stated is standard. Other temperature sensor types are available.

2. All materials and manufacturing processes comply with the RoHS directive.

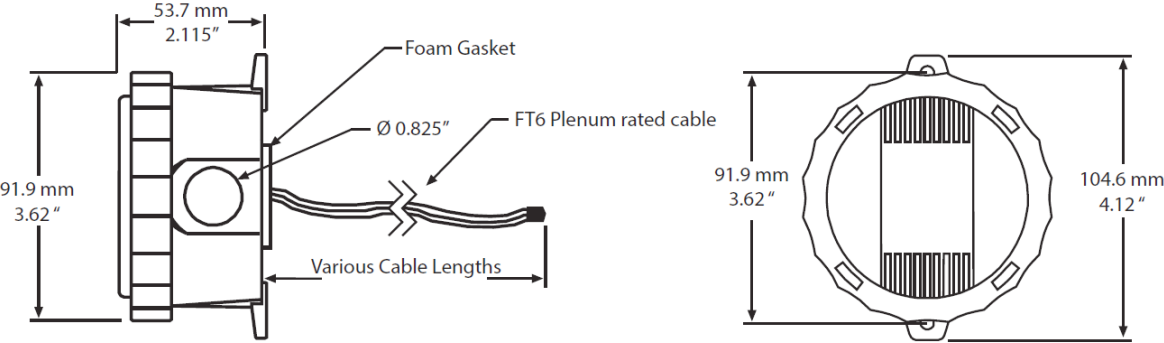
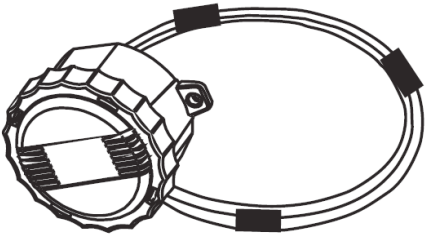
# Dimensions



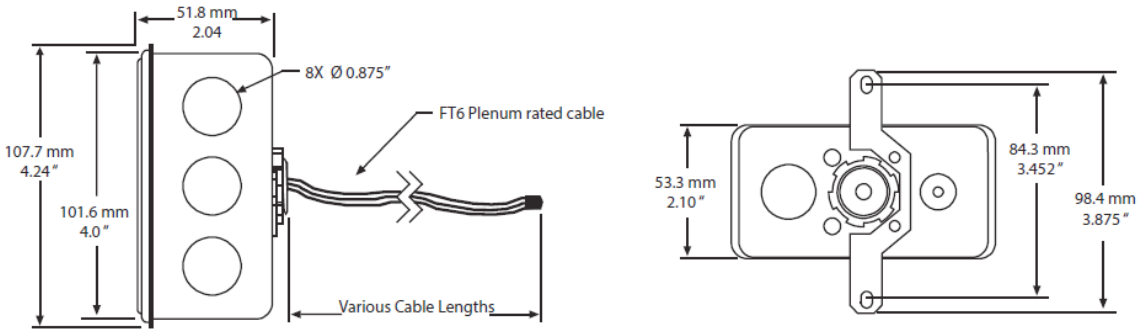
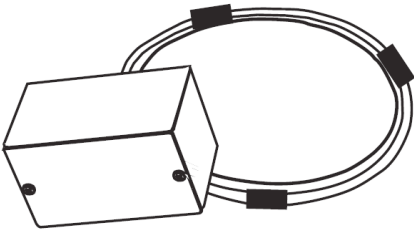
## ABS Enclosure



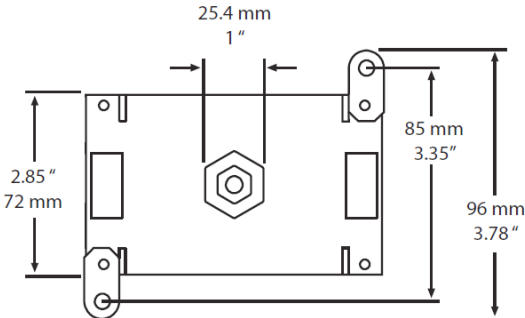
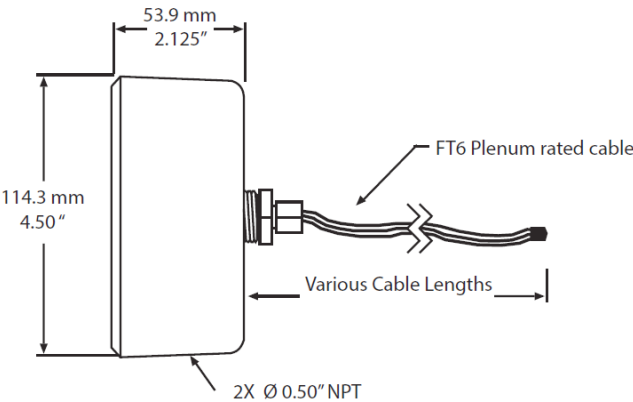
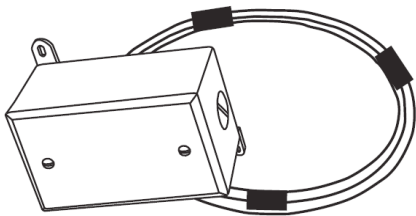
# Round ABS Enclosure



# Metal Enclosure



**Weatherproof Enclosure**



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