



# 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
- Higher temperature applications (MJ)

## 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 MJ = Metal junction box 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  
 Metal junction box enclosure (MJ) \_\_\_\_\_ Galvanized Steel Type: IP50 (NEMA1)

Shipping weight:

Metal junction box enclosure (MJ) \_\_\_\_\_ 1.00 lbs (0.4550 kg)

## Agency Approvals

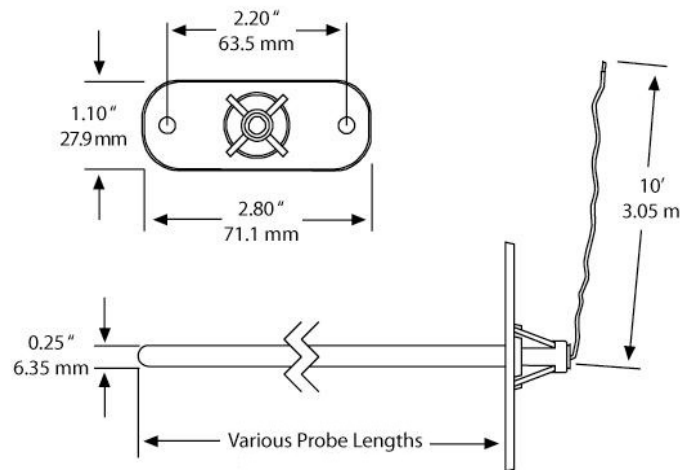
Material<sup>2</sup> \_\_\_\_\_ UL94

1. Temperature sensor type stated is standard. Other temperature sensor types are available.

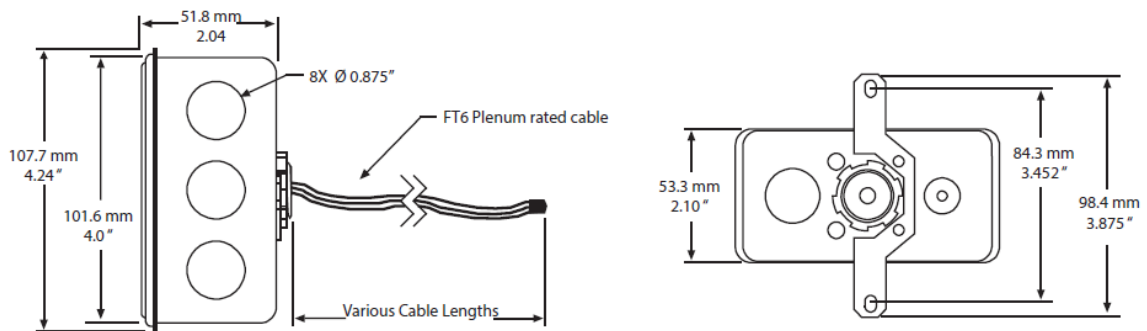
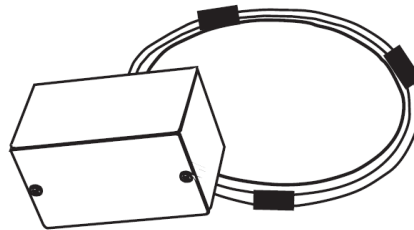
2. All materials and manufacturing processes comply with the RoHS directive.

# Dimensions

## Bracket



## Metal Enclosure (MJ)



Specifications subject to change without notice.  
 Distech Controls, and the Distech Controls logo are trademarks of Distech Controls Inc. All other trademarks are property of their respective owner.  
 ©, Distech Controls Inc., 2023 All rights reserved.