

## MODELS:

ITD4001: Duct Mounted Temperature Detector

## ITD4001

### Duct Mounted Temperature Detector

## Specifications

### Operating Voltage

- 12V to 30VDC, 35VDC Max.

### Operating Mode

- Two wire current loop

### Calibration

- Within  $\pm 0.25^{\circ}\text{C}$  of reference at  $24^{\circ}\text{C}$

### Temperature Ratings

- Storage: 0 to  $70^{\circ}\text{C}$  non-condensing
- Operating: 10 to  $50^{\circ}\text{C}$  non-condensing

### Connection

- ITD4001: 2 core cable 300 millimetres long

## Installation

1. Make the hole in the duct only large enough to allow entry of the detector probe.
2. Mount the junction box to the duct.

## Wiring

For most installations twisted pair cable will be adequate, provided that it is not run in the same conduit as power cables.

It is good practice to maintain at least 50 millimetres clearance between detector wiring and power wiring.

Shielded cable should be used where there are high levels of EMI (electro magnetic interference). The shield should remain continuous from the detector to terminal 9 of the controller.

## Enclosure/Mounting

The ITD4001 is housed in a rectangular enclosure, and is moulded from flame retardant plastics recognised by UL as UL 94-V0.

**Colour:** Grey

**Dimensions** (max): 75mm (w) x 235mm (h) x 75mm (d)

 20mm conduit entry for wiring.

## Approvals

The Innotech ITD4001 Duct Mounted Temperature Detector conforms to:

- Electromagnetic emission and immunity requirements according to standards EN55014 (CISPR14) for RCM labelling.



## Applications

The Innotech<sup>®</sup> ITD4001 duct mounted current loop temperature detector is designed for use with the Innotech ITC, IPC, IMC, IDC and IDS5212 range of temperature controllers.

## Features

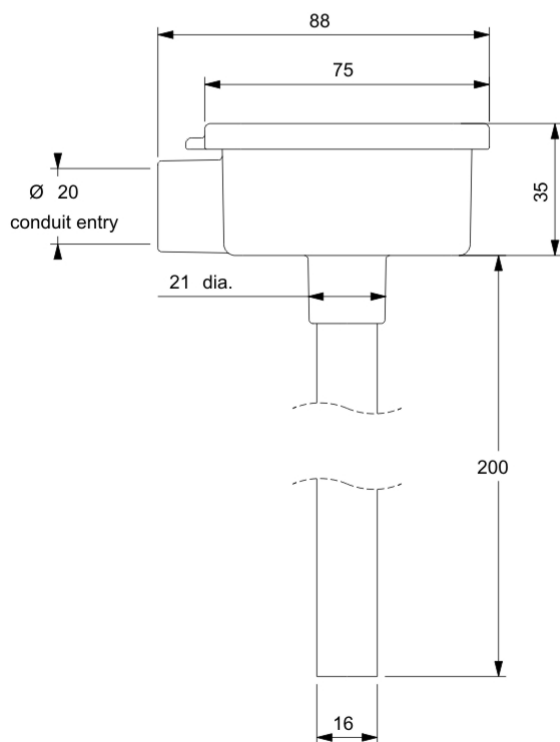
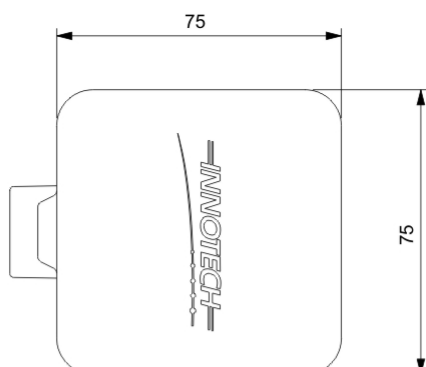
- Current loop operation eliminates problems associated with voltage drop in connecting cables
- Linear over full operating temperature range
- Individually factory calibrated
- Detectors are interchangeable
- Not polarity conscious
- Standard 20mm conduit entry to termination box

## Precautions

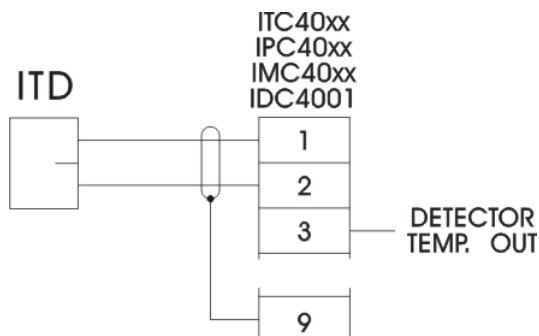
### General

Innotech ITD4001 detectors are tropic proofed but should not be used where high levels of condensation or corrosive substances are present. The ITI detectors may be used in these situations.

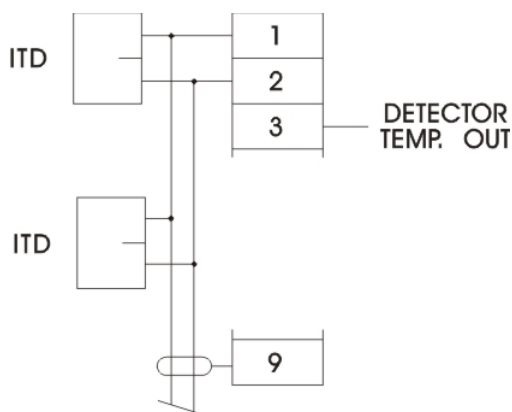
## Dimensional Diagram



## Standard Connection



## Detector Averaging \*



\* Requires link changes in controller before this option is used.

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