



## SERIES TDFT | THERMAL DISPERSION FLOW SWITCH



### FEATURES/BENEFITS

- Flow measurement in low flow applications
- Continuous frequency signal from measured flow velocity
- Low pressure drop
- No moving parts

### APPLICATIONS

- Chiller systems
- Boiler systems
- Liquid transfer systems

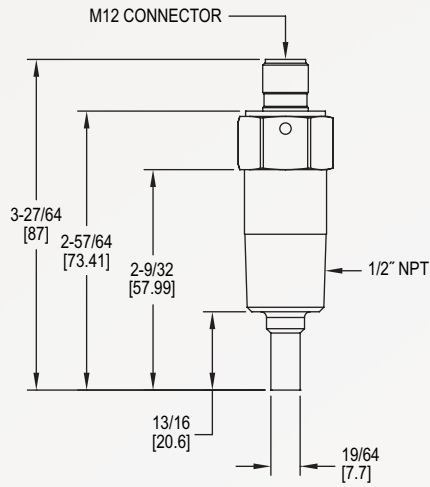
### DESCRIPTION

The **Model TDFT Thermal Dispersion Flow Transmitter** has continuous frequency output. It fits applications with pipe sizes from 1/2" to 2" (12.7 to 50 mm) and features 316L stainless steel housing for use in harsh environments.

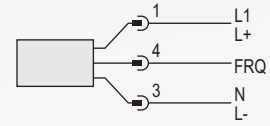
### SPECIFICATIONS

|                               |  |
|-------------------------------|--|
| <b>Service</b>                | Compatible water-based fluids.   |
| <b>Wetted Materials</b>       | 316L SS.   |
| <b>Range</b>                  | 1-3 ft/s (0.05-0.7 m/s).   |
| <b>Repeatability</b>          | ±10% at 68°F (20°C).   |
| <b>Temperature Limits</b>     | Ambient: -4 to 158°F (-20 to 70°C), Process: 14 to 140°F (-10 to 60°C), Storage: -40 to 158°F (-40 to 70°C). |
| <b>Pressure Limit</b>         | 362 psi (25 bar).  |
| <b>Response Time</b>          | 1 to 10 s.   |
| <b>Power Requirements</b>     | 24 VDC.  |
| <b>Current Consumption</b>    | <50 mA.  |
| <b>Electrical Rating</b>      | 80 mA.   |
| <b>Output Frequency</b>       | 5 to 74 Hz.  |
| <b>Electrical Connections</b> | 1 x M12.   |
| <b>Process Connection</b>     | 1/2" NPT.  |
| <b>Enclosure Rating</b>       | IP67.  |
| <b>Housing Material</b>       | 316L SS.   |
| <b>Mounting Orientations</b>  | Horizontal or vertical.  |
| <b>Weight</b>                 | 0.274 lb (124.5 g).  |
| <b>Agency Approvals</b>       | CE, cULus.   |

## DIMENSIONS



## WIRING DIAGRAM



FRQ: FREQUENCY OUTPUT

## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

| MODEL   | TDFT |
|---|------|
| <b>TDFT</b> : Thermal dispersion flow transmitter |      |

## ACCESSORIES

| Model                | Description         |
|----------------------|---------------------|
| <b>A-TDFT-CBL-15</b> | 15' (5 m) M12 cable |

**ORDER ONLINE TODAY!**

[dwyer-inst.com/Product/SeriesTDFT](http://dwyer-inst.com/Product/SeriesTDFT)



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DS-TDFT

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