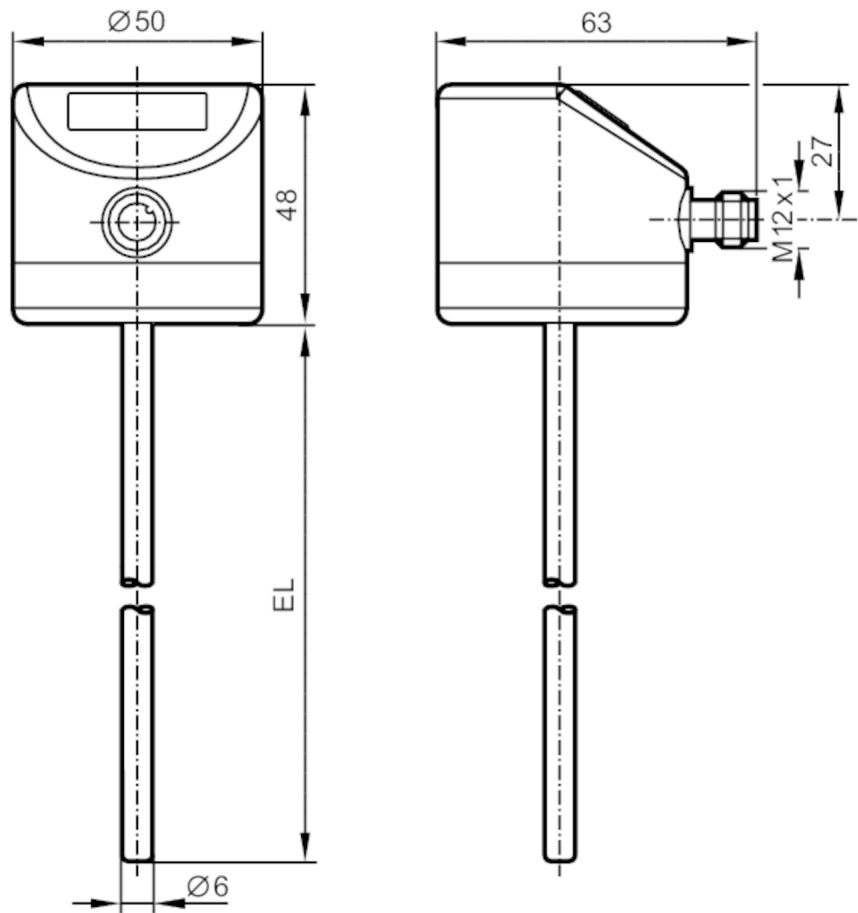


TD2273



Temperature transmitter with display

TD-300FFED06-A-ZVG/US



EL = installation length



| Product characteristics      |                                         |              |
|------------------------------|-----------------------------------------|--------------|
| Number of inputs and outputs | Number of analogue outputs: 1           |              |
| Measuring range              | -50...150 °C                            | -58...302 °F |
| Communication interface      | IO-Link                                 |              |
| Process connection           | Ø 6 mm                                  |              |
| Installation length EL [mm]  | 300                                     |              |
| Application                  |                                         |              |
| Measuring element            | 1 x Pt 1000; (to DIN EN 60751, class A) |              |
| Media                        | liquids and gases                       |              |
| Pressure rating [bar]        | 160                                     |              |
| Vacuum resistance [mbar]     | -1000                                   |              |
| Electrical data              |                                         |              |
| Operating voltage [V]        | 18...32 DC; ("supply class 2" to cULus) |              |
| Current consumption [mA]     | < 50                                    |              |
| Protection class             | III                                     |              |
| Reverse polarity protection  | yes                                     |              |
| Power-on delay time [s]      | 2                                       |              |



## Temperature transmitter with display

TD-300FFED06-A-ZVG/US

| Inputs / outputs                  |  |                                                                                                                           |                     |
|-----------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|---------------------|
| Number of inputs and outputs      |  | Number of analogue outputs: 1                                                                                             |                     |
| Outputs                           |  |                                                                                                                           |                     |
| Total number of outputs           |  | 1                                                                                                                         |                     |
| Output signal                     |  | analogue signal; IO-Link; (configurable)                                                                                  |                     |
| Number of analogue outputs        |  | 1                                                                                                                         |                     |
| Analogue current output [mA]      |  | 4...20                                                                                                                    |                     |
| Max. load [Ω]                     |  | 300                                                                                                                       |                     |
| Short-circuit protection          |  | yes                                                                                                                       |                     |
| Overload protection               |  | yes                                                                                                                       |                     |
| Measuring/setting range           |  |                                                                                                                           |                     |
| Measuring range                   |  | -50...150 °C                                                                                                              | -58...302 °F        |
| Factory setting                   |  | 0...300 °F                                                                                                                |                     |
| Resolution                        |  |                                                                                                                           |                     |
| Resolution of analogue output [K] |  | 0.04                                                                                                                      |                     |
| Resolution of display [K]         |  | 0.28                                                                                                                      |                     |
| Accuracy / deviations             |  |                                                                                                                           |                     |
| Precision analogue output [K]     |  | ± 0,3 + (± 0,1 % MS)                                                                                                      |                     |
| Temperature coefficient [X22]     |  | 0,1; (in case of deviation from the reference condition 25 °C)                                                            |                     |
| Response times                    |  |                                                                                                                           |                     |
| Dynamic response T05 / T09 [s]    |  | 1 / 3                                                                                                                     |                     |
| Interfaces                        |  |                                                                                                                           |                     |
| Communication interface           |  | IO-Link                                                                                                                   |                     |
| Transmission type                 |  | COM2 (38,4 kBaud)                                                                                                         |                     |
| IO-Link revision                  |  | 1.1                                                                                                                       |                     |
| Operating conditions              |  |                                                                                                                           |                     |
| Ambient temperature [°C]          |  | -25...80                                                                                                                  |                     |
| Storage temperature [°C]          |  | -40...100                                                                                                                 |                     |
| Protection                        |  | IP 67; IP 68; IP 69K                                                                                                      |                     |
| Tests / approvals                 |  |                                                                                                                           |                     |
| EMC                               |  | DIN EN 61000-6-2                                                                                                          |                     |
|                                   |  | DIN EN 61000-6-3                                                                                                          |                     |
| Shock resistance                  |  | DIN IEC 68-2-27                                                                                                           | 50 g (11 ms)        |
| Vibration resistance              |  | DIN IEC 68-2-6                                                                                                            | 10 g (10...2000 Hz) |
| MTTF [ANN]                        |  | 407                                                                                                                       |                     |
| Note on approval                  |  | factory certificate available as download at <a href="http://www.factory-certificate.ifm">www.factory-certificate.ifm</a> |                     |
| UL approval                       |  | UL Approval no.                                                                                                           | K001                |
| Mechanical data                   |  |                                                                                                                           |                     |
| Weight [g]                        |  | 282                                                                                                                       |                     |
| Dimensions [mm]                   |  | Ø 6                                                                                                                       |                     |
| Materials                         |  | stainless steel (1.4404 / 316L); PEI; FKM                                                                                 |                     |
| Materials (wetted parts)          |  | stainless steel (1.4404 / 316L) electropolished                                                                           |                     |
| Process connection                |  | Ø 6 mm                                                                                                                    |                     |

TD2273



Temperature transmitter with display

TD-300FFED06-A-ZVG/US

|                                                   |           |     |
|---------------------------------------------------|-----------|-----|
| Surface characteristics Ra/Rz of the wetted parts | Ra: < 0.8 |     |
| Probe diameter                                    | [mm]      | 6   |
| Installation length EL                            | [mm]      | 300 |

Displays / operating elements

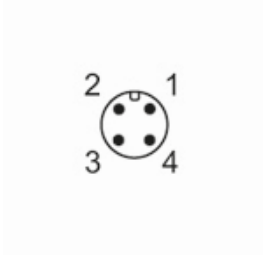
|         |                                |  |
|---------|--------------------------------|--|
| Display | 7-segment LED display, 4-digit |  |
|         | display unit / status, °C / °F |  |

Remarks

|               |                                                 |  |
|---------------|-------------------------------------------------|--|
| Remarks       | MS = set measuring span                         |  |
|               | The values for accuracy apply to flowing water. |  |
| Pack quantity | 1 pcs.                                          |  |

Electrical connection

Connector: 1 x M12; coding: A



Connection

