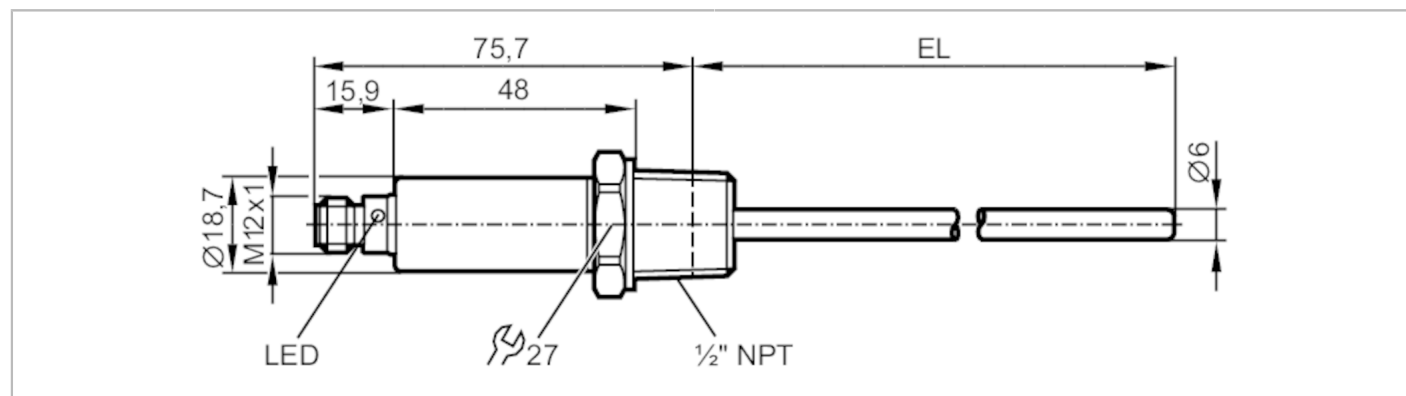


# TA2343



## Temperature transmitter

TA-150FLEN12-A-ZVG/US



### Product characteristics

|                              |                               |
|------------------------------|-------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
| Measuring range [°F]         | -58...302                     |
| Communication interface      | IO-Link                       |
| Process connection           | threaded connection 1/2" NPT  |
| Installation length EL [mm]  | 150                           |

### Application

|                                                |                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------|
| Special feature                                | Gold-plated contacts                                                         |
| Measuring element                              | 1 x Pt 1000; (to DIN EN 60751, class A)                                      |
| Media                                          | liquids and gases                                                            |
| Pressure rating [bar]                          | 300                                                                          |
| Note on pressure rating                        | sensor                                                                       |
|                                                | When mounted in adapters the specifications of the adapter data sheet apply. |
| MAWP (for applications according to CRN) [bar] | 300                                                                          |

### 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]     | 1                                       |

### 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]                | 250; ((18...19 V); 19...32 V: 300 Ω)     |
| Short-circuit protection     | yes                                      |
| Overload protection          | yes                                      |

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| Measuring/setting range                           |                  |                                                                    |
|---------------------------------------------------|------------------|--------------------------------------------------------------------|
| Measuring range                                   | [°F]             | -58...302                                                          |
| Factory setting                                   |                  | 0...300 °F                                                         |
| Resolution                                        |                  |                                                                    |
| Resolution of analogue output                     | [K]              | 0.04                                                               |
| Accuracy / deviations                             |                  |                                                                    |
| Precision analogue output                         | [K]              | ± 0,3 + (± 0,1 % MS)                                               |
| Temperature coefficient<br>[% of the span / 10 K] |                  | 0,1; (in case of deviation from the reference condition 25 ± 5 °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 |                                                                    |
| Shock resistance                                  | DIN IEC 68-2-27  | 50 g (11 ms)                                                       |
| Vibration resistance                              | DIN IEC 68-2-6   | 20 g (10...2000 Hz)                                                |
| MTTF                                              | [years]          | 572                                                                |
| UL approval                                       | UL Approval no.  | K002                                                               |
| Mechanical data                                   |                  |                                                                    |
| Weight                                            | [g]              | 148                                                                |
| Dimensions                                        | [mm]             | Ø 18.7                                                             |
| Materials                                         |                  | stainless steel (316L/1.4404); PEI; FKM                            |
| Materials (wetted parts)                          |                  | stainless steel (316L/1.4404)                                      |
| Process connection                                |                  | threaded connection 1/2" NPT                                       |
| Probe diameter                                    | [mm]             | 6                                                                  |
| Installation length EL                            | [mm]             | 150                                                                |
| Displays / operating elements                     |                  |                                                                    |
| Display                                           | operating status | 1 x LED, green                                                     |
| Remarks                                           |                  |                                                                    |
| Remarks                                           |                  | MS = set measuring span                                            |
| Pack quantity                                     |                  | 1 pcs.                                                             |

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### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection

