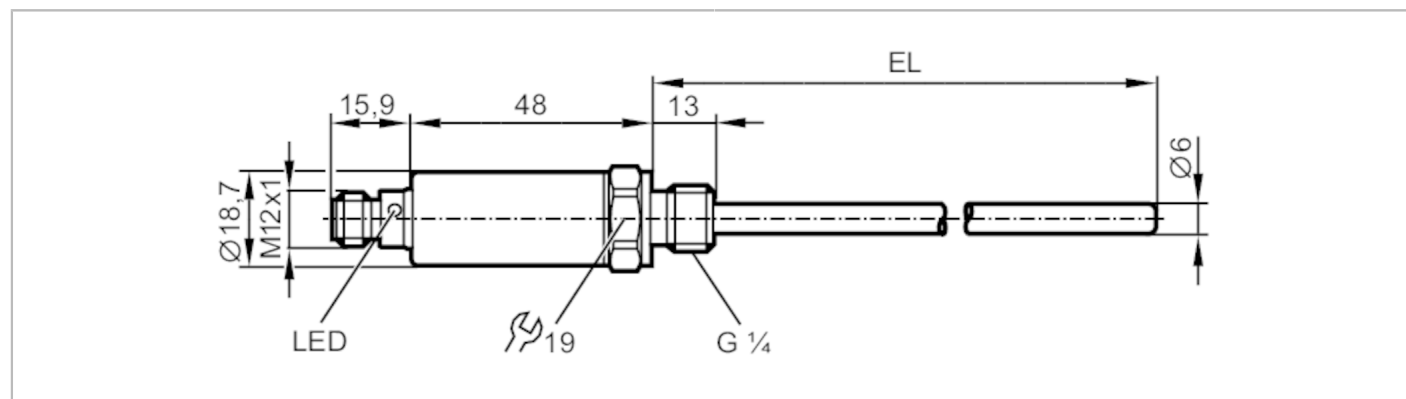


# TA2105



## Temperature transmitter

TA-025CLER14-A-ZVG/US



### Product characteristics

|                              |                                           |
|------------------------------|-------------------------------------------|
| Number of inputs and outputs | Number of analog outputs: 1               |
| Measuring range [°C]         | -50...150                                 |
| Communication interface      | IO-Link                                   |
| Process connection           | threaded connection G 1/4 external thread |
| Installation length EL [mm]  | 25                                        |

### Application

|                         |                                         |
|-------------------------|-----------------------------------------|
| System                  | gold-plated contacts                    |
| Measuring element       | 1 x Pt 1000; (to DIN EN 60751, class A) |
| Media                   | liquids and gases                       |
| Pressure rating         | 400 bar 40 MPa                          |
| Note on pressure rating | sensor                                  |

When mounted in adapters the specifications of the adapter data sheet apply.

### Electrical data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Operating voltage [V]       | 18...32 DC; (cULus - Class 2 source required) |
| 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 analog outputs: 1 |
|------------------------------|-----------------------------|

### Outputs

|                            |                                        |
|----------------------------|----------------------------------------|
| Total number of outputs    | 1                                      |
| Output signal              | analog signal; IO-Link; (configurable) |
| Number of analog outputs   | 1                                      |
| Analog current output [mA] | 4...20                                 |
| Max. load [Ω]              | 250; ((18...19 V); 19...32 V: 300 Ω)   |
| Short-circuit protection   | yes                                    |
| Overload protection        | yes                                    |

### Measuring/setting range

|                     |    |
|---------------------|----|
| Probe length L [mm] | 12 |
|---------------------|----|

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|                               |                        |                                                                    |
|-------------------------------|------------------------|--------------------------------------------------------------------|
| Measuring range               | [°C]                   | -50...150                                                          |
| Factory setting               |                        | -50...150 °C                                                       |
| Resolution                    |                        |                                                                    |
| Resolution of analog output   | [K]                    | 0.04                                                               |
| Accuracy / deviations         |                        |                                                                    |
| Precision analog output       | [K]                    | ± 0,3 + (± 0,1 % MS)                                               |
| Temperature coefficient       | [% of the span / 10 K] | 0,1; (In case of deviation from the reference condition 25 ± 5 °C) |
| Reaction times                |                        |                                                                    |
| Dynamic response T05 / T09    | [s]                    | 1 / 3                                                              |
| Interfaces                    |                        |                                                                    |
| Communication interface       |                        | IO-Link                                                            |
| Transmission type             |                        | COM2 (38,4 kBaud)                                                  |
| IO-Link revision              |                        | 1.1                                                                |
| Profiles                      | Smart Sensor - SSP 0   | Generic Profiled Sensor                                            |
|                               | Function               | Device identification                                              |
|                               | Function               | Process data variable                                              |
| Min. process cycle time       | [ms]                   | 2.3                                                                |
| Supported DeviceIDs           | Type of operation      | DeviceID                                                           |
|                               | default                | 377                                                                |
| 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 number     | K002                                                               |
| Mechanical data               |                        |                                                                    |
| Weight                        | [g]                    | 84                                                                 |
| Housing                       |                        | tubular                                                            |
| Dimensions                    | [mm]                   | Ø 18.7 / L = 88.9                                                  |
| Material                      |                        | stainless steel (1.4404 / 316L); PEI; FKM                          |
| Materials (wetted parts)      |                        | stainless steel (1.4404 / 316L); O-ring: FKM                       |
| Tightening torque             | [Nm]                   | 35                                                                 |
| Process connection            |                        | threaded connection G 1/4 external thread                          |
| Probe diameter                | [mm]                   | 6                                                                  |
| Installation length EL        | [mm]                   | 25                                                                 |
| Displays / operating elements |                        |                                                                    |
| Display                       | operating status       | 1 x LED, green                                                     |
| Remarks                       |                        |                                                                    |
| Remarks                       |                        | MS = set measuring span                                            |

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Pack quantity

1 pcs.

### Electrical connection

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



### Connection

