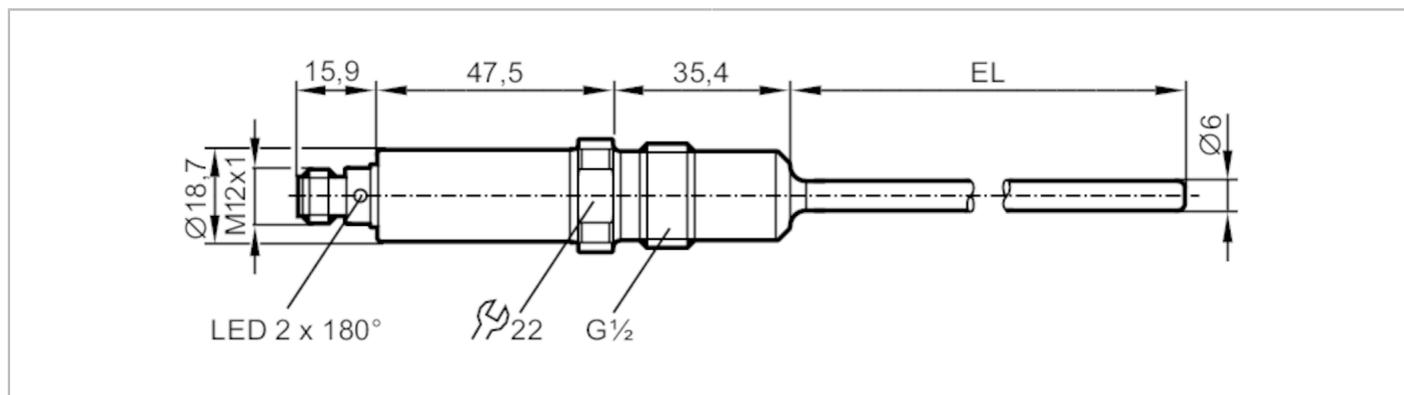


TY2510



Temperature transmitter

TA-050CLEM12-A-ZVG/US



Product characteristics

| | |
|------------------------------|--|
| Number of inputs and outputs | Number of analog outputs: 1 |
| Measuring range [°C] | -50...200 |
| Process connection | threaded connection G 1/2 sealing cone |
| Installation length EL [mm] | 50 |

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; (cULus - Class 2 source required) |
| Current consumption [mA] | < 50 |
| Protection class | III |
| Reverse polarity protection | yes |
| Power-on delay time [s] | 2 |

Inputs / outputs

| | |
|------------------------------|-----------------------------|
| Number of inputs and outputs | Number of analog outputs: 1 |
|------------------------------|-----------------------------|

Outputs

| | |
|----------------------------|--------------------------------------|
| Total number of outputs | 1 |
| Output signal | analog signal |
| 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

| | |
|----------------------|------------|
| Measuring range [°C] | -50...200 |
| Factory setting | 0...140 °C |

Resolution

| | |
|---------------------------------|------|
| Resolution of analog output [K] | 0.04 |
|---------------------------------|------|

TY2510



Temperature transmitter

TA-050CLEM12-A-ZVG/US

| Accuracy / deviations | | |
|---|---|---------------------|
| Precision analog output [K] | $\pm 0,3 + (\pm 0,1 \% \text{ MS})$ | |
| Temperature coefficient [% of the span / 10 K] | 0,1; (In case of deviation from the reference condition $25 \pm 5 \text{ }^\circ\text{C}$) | |
| Reaction times | | |
| Dynamic response T05 / T09 [s] | $< 0,5 / < 2$ | |
| Interfaces | | |
| Transmission type | COM2 (38,4 kBaud) | |
| IO-Link revision | 1.1 | |
| Operating conditions | | |
| Ambient temperature [°C] | -25...80 | |
| Note on ambient temperature | at medium temperature: $< 160 \text{ }^\circ\text{C}$ | |
| | -25...60 °C | |
| | at medium temperature: $< 200 \text{ }^\circ\text{C}$ | |
| 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 [years] | 334 | |
| Mechanical data | | |
| Weight [g] | 192 | |
| Dimensions [mm] | $\varnothing 18.7$ | |
| Material | stainless steel (1.4404 / 316L); PEI; FKM | |
| Materials (wetted parts) | stainless steel (1.4404 / 316L) electropolished | |
| Process connection | threaded connection G 1/2 sealing cone | |
| Surface characteristics Ra/Rz of the wetted parts | Ra: < 0.8 | |
| Probe diameter [mm] | 6 | |
| Installation length EL [mm] | 50 | |
| 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 | | |
| | | |

TY2510



Temperature transmitter

TA-050CLEM12-A-ZVG/US

Connection

