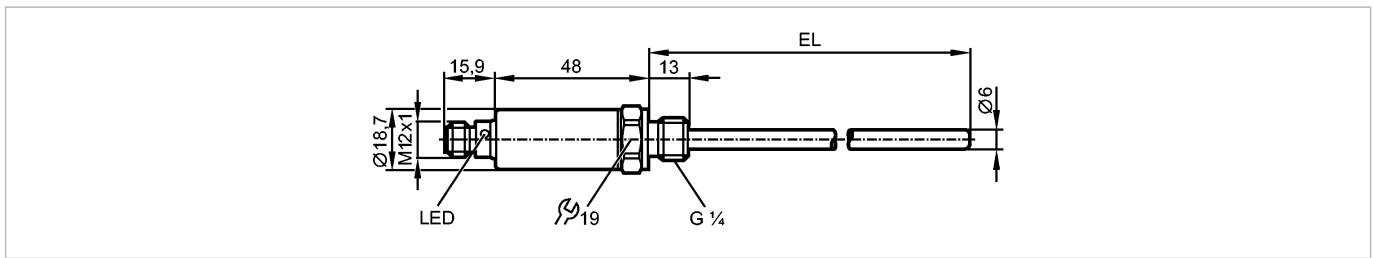


TA2135

TA-100CLER14-A-ZVG/US

Temperature sensors



Product characteristics

| |
|--|
| Temperature transmitter |
| Quick disconnect |
| Process connection: G 1/4 |
| Installation length EL: 100 mm |
| Analog output 4...20 mA |
| Measuring range: -50...150 °C |
| Measuring element: 1 x Pt 1000, to DIN EN 60751, class A |
| Factory setting: -50...150 °C |

Application

| | |
|-----------------------|---|
| Application | liquids and gases |
| Pressure rating [bar] | 160; only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply |

Electrical data

| | |
|-----------------------------|---|
| Electrical design | DC |
| Operating voltage [V] | 18...32 DC; cULus - Class 2 source required |
| Current consumption [mA] | < 50 |
| Protection class | III |
| Reverse polarity protection | yes |

Outputs

| | |
|--------------------------|----------------------------------|
| Output function | 4...20 mA analog |
| Short-circuit protection | yes |
| Overload protection | yes |
| Analog output | 4...20 mA |
| Max. load [Ω] | 250 (18...19 V); 300 (19...32 V) |

Measuring / setting range

| | |
|--------------------|--------------|
| Measuring range °C | -50...150 |
| Factory setting | -50...150 °C |
| Resolution | |
| Analog output [K] | ≤ 0.04 |

Accuracy / deviations

| | |
|--|----------------------|
| Analog output [K] | ± 0.3 + (± 0.1 % MS) |
| Temperature coefficients (in % of the span per 10 K) | 0.1 |

Reaction times

| | |
|--------------------------------|-------|
| Power-on delay time [s] | 1 |
| Dynamic response T05 / T09 [s] | 1 / 3 |

TA2135

TA-100CLER14-A-ZVG/US

Temperature sensors

Interfaces

| | |
|------------------|-------------------|
| IO-Link Device | |
| Transfer type | COM2 (38.4 kBaud) |
| IO-Link revision | 1.1 |

Environment

| | | |
|---------------------|------|------------------------|
| 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 number | | K002 |

Mechanical data

| | | |
|--------------------------|------|--|
| Process connection | | G ¼ |
| Materials (wetted parts) | | stainless steel 316L / 1.4404; O-ring: FKM |
| Probe diameter | [mm] | 6 |
| Installation length EL | [mm] | 100 |
| Housing materials | | stainless steel 316L / 1.4404; PEI; FKM |
| Weight | [kg] | 0.083 |

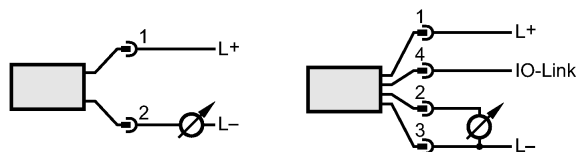
Displays / operating elements

| | |
|---------|--------------------------------|
| Display | operating status 1 x LED green |
|---------|--------------------------------|

Electrical connection

| | |
|------------|-------------------------------------|
| Connection | M12 connector; gold-plated contacts |
|------------|-------------------------------------|

Wiring



Remarks

| | |
|---------------|-------------------------|
| Remarks | MS = set measuring span |
| Pack quantity | [piece] 1 |