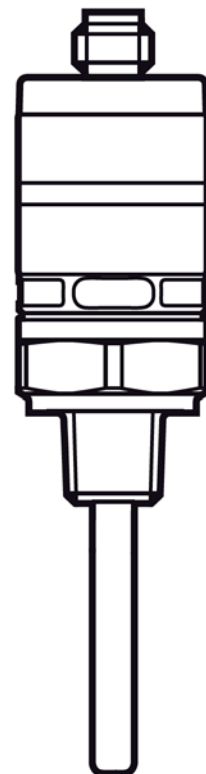


Operating instructions
Electronic temperature sensor
TSDA25N-AP-0284-H

80261949 / 00 03 / 2017



1 Functions and features

The unit detects the system temperature in machines and installations.

2 Function

The unit generates 2 output signals: 2 x NO with separately adjustable switch points [SET1] and [SET2].

- With rising temperature OUT1 / OUT2 closes when the set value [SET1] / [SET2] is reached.
- With falling temperature OUT1 / OUT2 opens again, when the value [SET1] minus hysteresis / [SET2] minus hysteresis is reached.
- The hysteresis is fixed. It is 5 °C / 9 °F.
- Measuring range: -25...140 °C / -13...284 °F.
- Measuring element: Pt 1000 according to DIN EN 60751, class A.

3 3 Installation



Before mounting and removing the unit: ensure that no medium can leak at the process connection.

- ▶ Insert the unit in a 1/4" NPT process connection.
- ▶ Tighten firmly. Tightening torque: 1.5 turns past hand tight.

4 Electrical connection

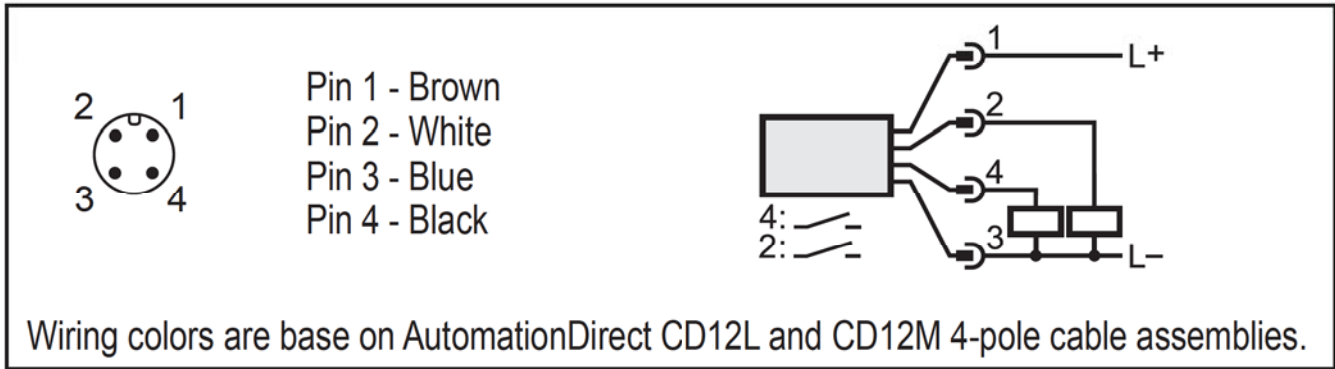


The unit must be connected by a qualified electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.

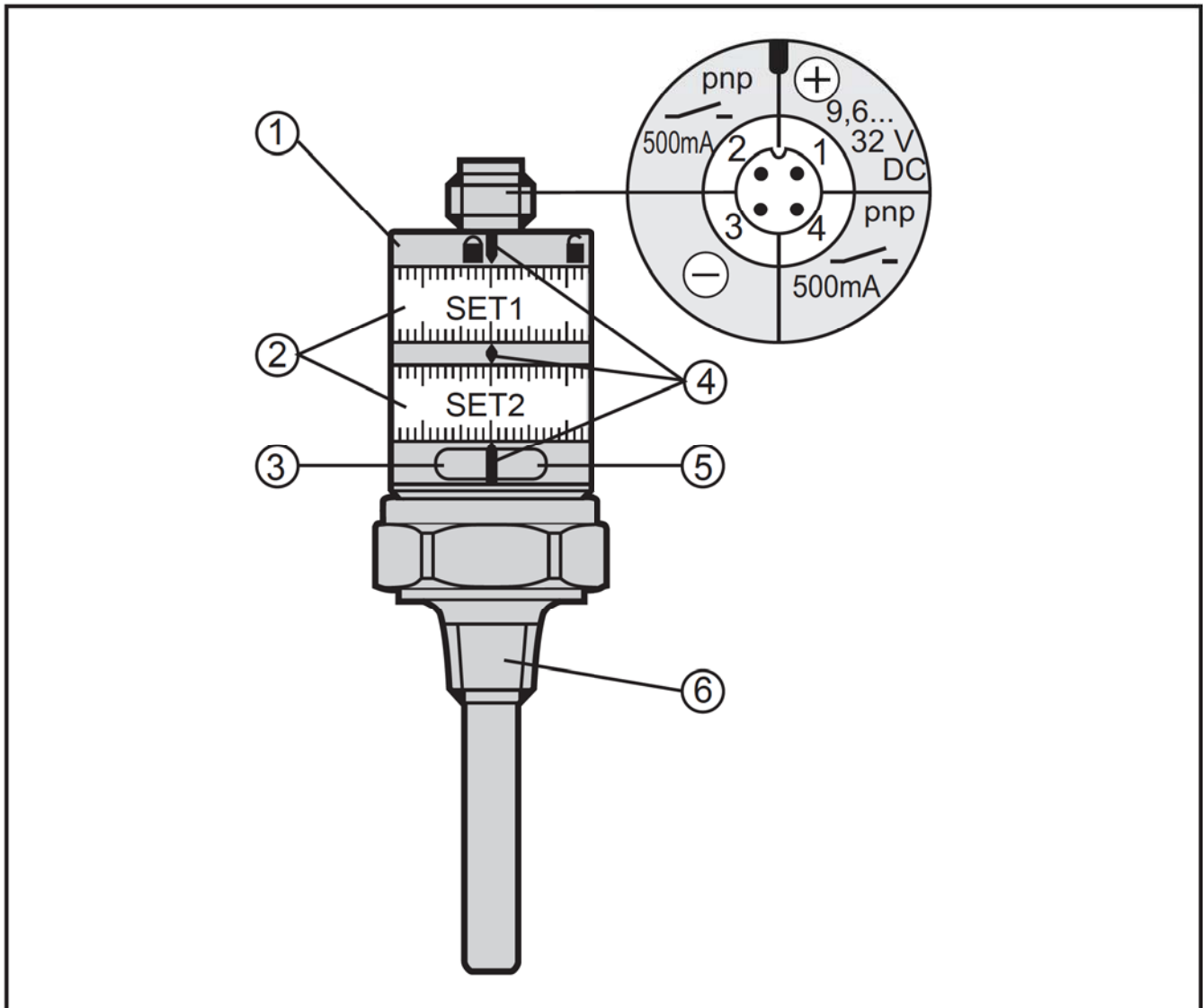
Operating voltage "supply class 2" to cULus.

► Disconnect power before connecting the unit as follows:



Pin 1	L+
Pin 3	L-
Pin 4 (OUT1)	Normally open (NO)
Pin 2 (OUT2)	Normally open (NO)

5 Setting

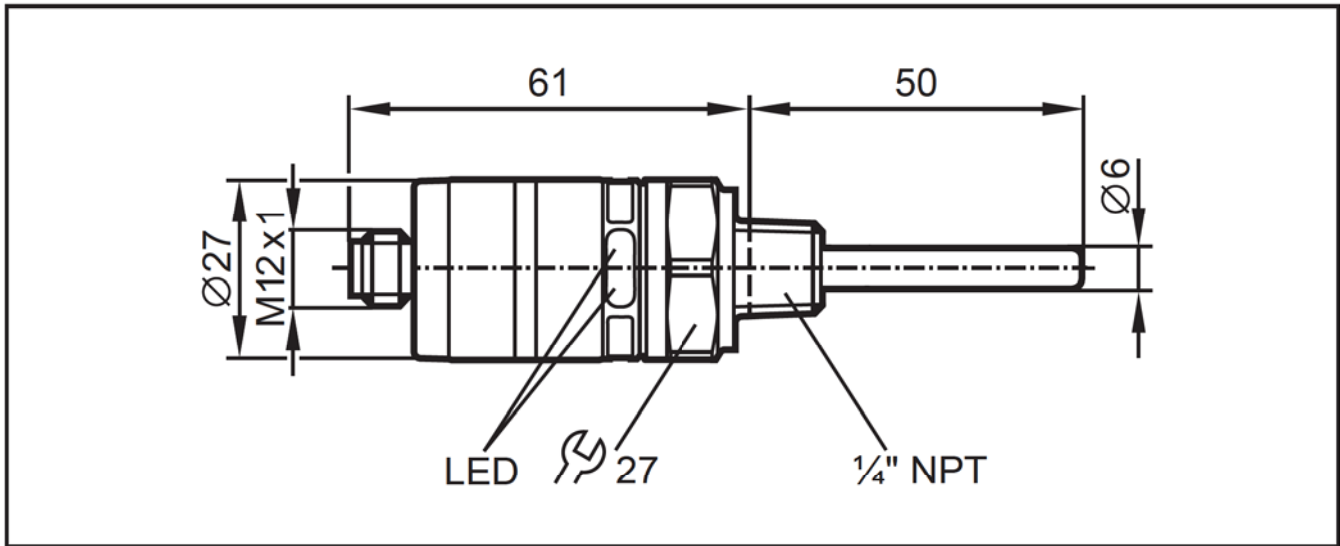


- 1: locking ring
 - 2: setting rings (manually adjustable after unlocking)
 - 3: LED yellow: lights if OUT1 = ON, temperature \geq [SET1]
 - 4: setting marks
 - 5: LED yellow: lights if OUT2 = ON, temperature \geq [SET2]
 - 6: process connection $\frac{1}{4}$ " NPT
- Pin 4 = OUT1 / Pin 2 = OUT2

To obtain the setting accuracy:

- Set both rings to the minimum value, then set the requested values.

6 Scale drawing



Dimensions are in millimeters (25.4 mm = 1 inch)

7 Technical Data



Further technical data and scaledrawing at www.automationdirect.com.

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