pr(s)ense®

by Automationdirect.com
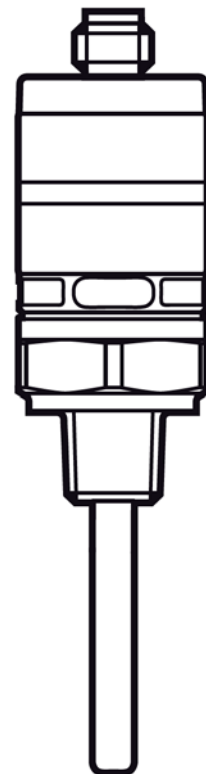
Operating instructions
Electronic temperature sensor

TSDA25N-0P-0284-H

1 Functions and features

The unit detects the system temperature in machines and installations.

2 Function

The unit switches the two complementary outputs OUT1 / OUT2:

- With rising temperature OUT1 closes and OUT2 opens when the set value [SET] is reached.

- With falling temperature OUT1 opens and OUT2 closes, when the set value [RESET] is reached.

• Measuring range: -25...140 °C / - 4 ...284 °F.

• Measuring element: Pt1000 according to DIN EN 60751, class A.

3 Installation

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

▶ Insert the unit in a ¼" NPT process connection.

▶ Tighten firmly. Tightening torque: 1.5 turns past hand tight.
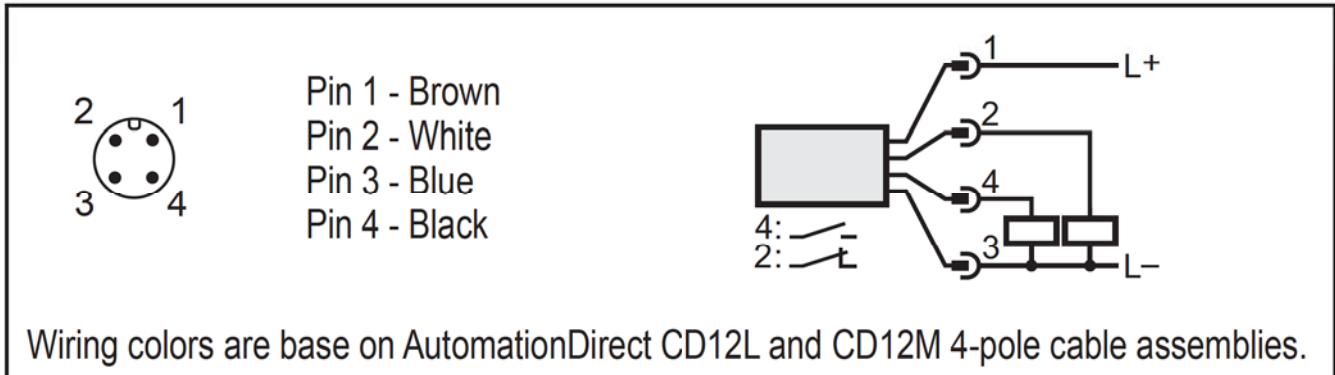
4 Electrical connection

⚠ The unit must be connected by a qualified electrician.
The national and international regulations for the installation of electrical equipment must be adhered to.
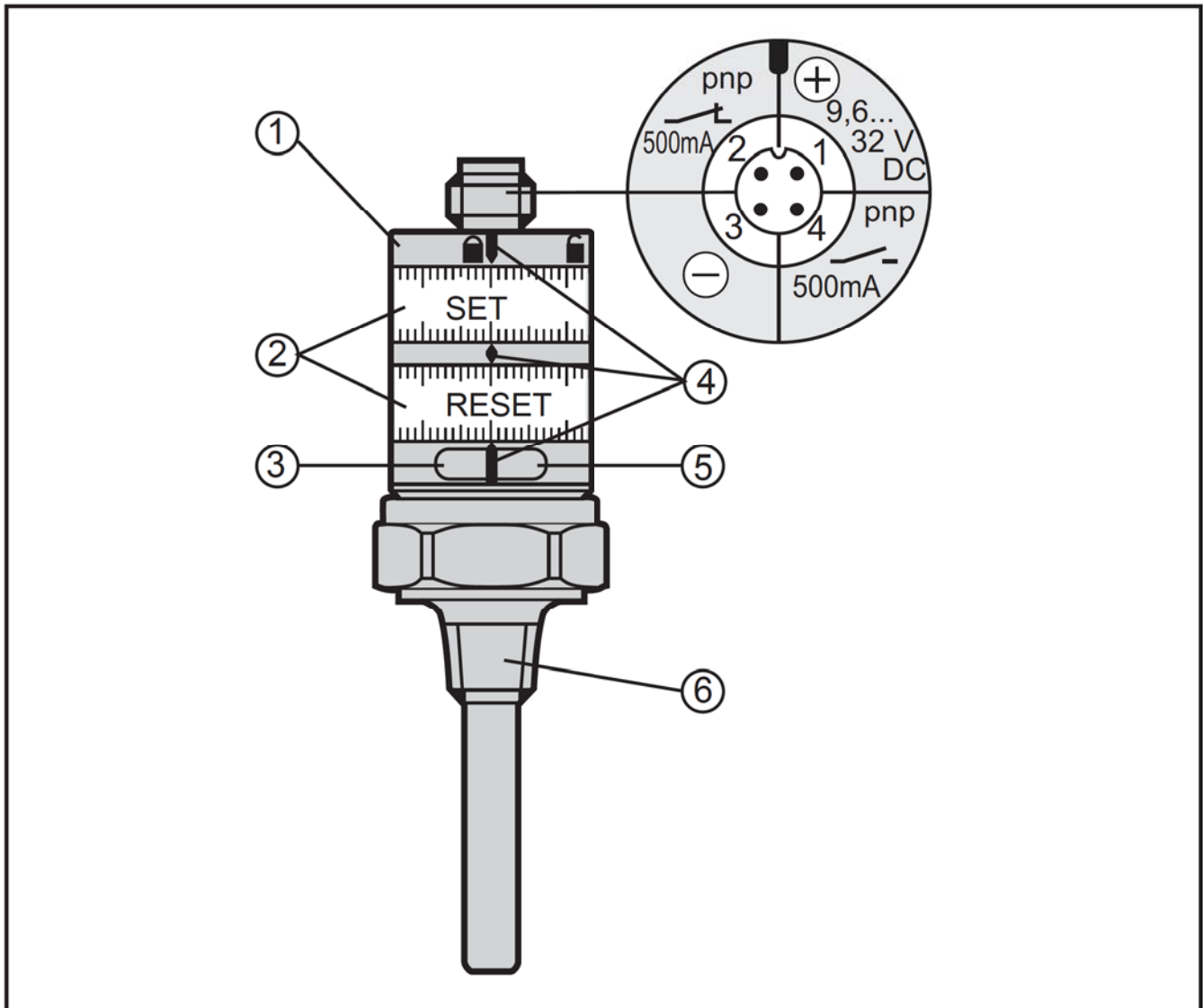Operating voltage "supply class 2" to cULus.

▶ Disconnect power before connecting the unit as follows:

Pin 1 - Brown
Pin 2 - White
Pin 3 - Blue
Pin 4 - Black

Wiring colors are base on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

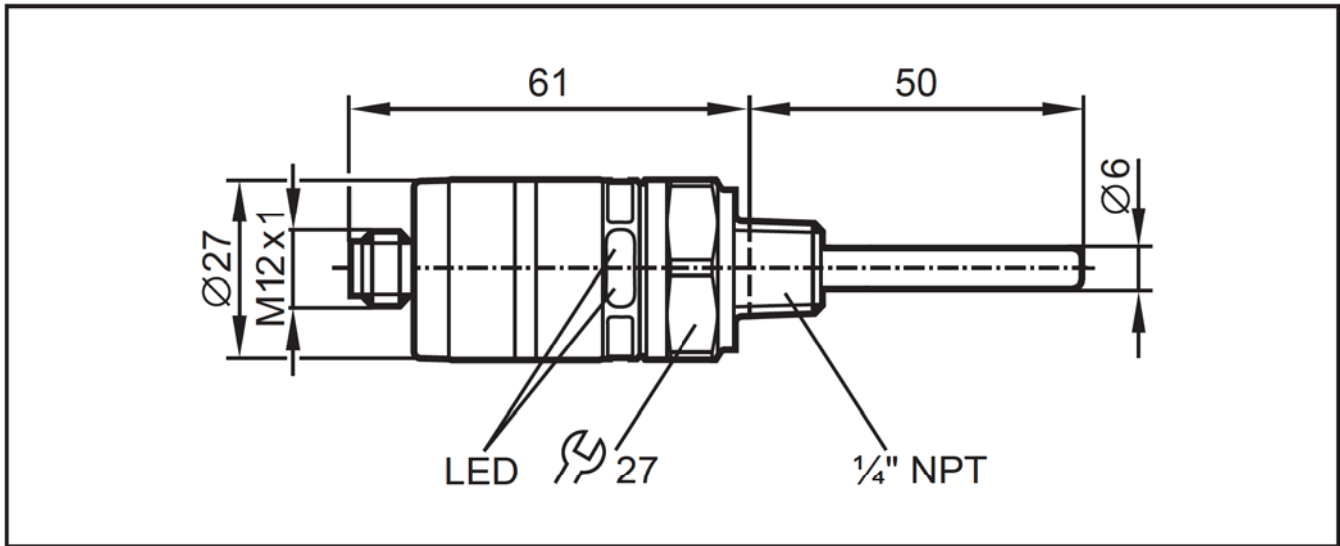| Pin 1	L+
Pin 3	L-
Pin 4 (OUT1)	Normally open (NO)
Pin 2 (OUT2)	Normally closed (NC)

5 Setting

1: locking ring
2: setting rings (manually adjustable after unlocking)
3: LED green: supply voltage O.K.
4: setting marks
5: LED yellow: value [SET] reached, OUT1 = ON / OUT2 = OFF
6: process connection ¼" NPT
Pin 4 = OUT1 / Pin 2 = OUT2

Minimum distance between [SET] and [RESET] = 3 °C / 5.4 °F.

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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