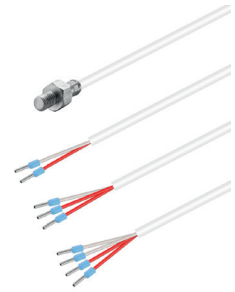


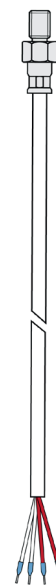
Screw-in probe M6x9 with PFA cable

Article no.: 803172 1011

Screw-in probe M6x9 measure the temperature in pipes or containers. PFA cables can be used up to +260 °C. They are robust, acid-resistant, flexible and a good alternative to silicone cables. To configure your screw-in probe for your measuring task, simply select the required configuration features and send us the order code.



| General Information | |
|---|---|
| Measuring range | -50 °C to +260 °C depending on sensor Type and connection cable |
| Perm. °C range cable | -50 °C to +260 °C |
| Accuracy | depending on sensor Type |
| Pull-out force | ≥ 30 N |
| Pressure proof up to | 10 bar |
| Supply and output | |
| Max. meas. current | max. 1 mA |
| Supply voltage | approx. 5 V depending on measurement current |
| Measurement signal | passive (resistance value) |
| Ambient conditions | |
| Protection class | IP54 according DIN 60529 (depending on cable) |
| Humidity and moisture condensation resistance | according to application-specific qualification |
| Certificates and Standards | |
| Standards | DIN EN 61326-1:2013 DIN EN IEC 63000:2019-05 |
| Directive | RoHS 2011/65/EU 2014/30/EU |



Customizable options

- A - Measuring element
- B - Connection Type
- E - Material connection cable
- F - Length connection cable
- G - Connector
- H - Bend protection

| A - Measuring element | | | | |
|-----------------------|-------------|--|-------------------------|-----------------------|
| Code | Sensor | Accuracy / Tolerance resistance | From (°C) ¹⁾ | To (°C) ¹⁾ |
| A012 | Pt100 | Cl. B dT = ±(0,30 °C + 0,005 t) ¹⁾ | -50 °C | +400 °C |
| A011 | Pt100 | Cl. A dT = ±(0,15 °C + 0,002 t) ¹⁾ | -50 °C | +300 °C |
| A013 | Pt100 | 1/3 Cl. B dT = ±(1/3 · (0,30 °C + 0,005 t)) ¹⁾ | -50 °C | +200 °C |
| A022 | Pt500 | Cl. B dT = ±(0,30 °C + 0,005 t) ¹⁾ | -70 °C | +500 °C |
| A032 | Pt1000 | Cl. B dT = ±(0,30 °C + 0,005 t) ¹⁾ | -50 °C | +400 °C |
| A031 | Pt1000 | Cl. A dT = ±(0,15 °C + 0,002 t) ¹⁾ | -50 °C | +300 °C |
| A106 | NTC 5 kOhm | R25 = 5 KOhm ±1 % | -40 °C | +150 °C |
| A110 | NTC 10 kOhm | R25 = 10 KOhm ±1 % | -40 °C | +125 °C |

¹⁾according to IEC 751 / EN 60751 | ²⁾ Perm. range °C | A110 only on request | The measuring range depends on the measuring element and the connecting cable. | Detailed information and the characteristics can be found in our download area.

| B - Connection Type | |
|---------------------|-------------|
| Code | Conn. Type |
| B2 | 2-Wire (2W) |
| B3 | 3-Wire (3W) |
| B4 | 4-Wire (4W) |

| Possible connections | | | |
|----------------------|----|----|----|
| Sensor | 2W | 3W | 4W |
| Pt | ✓ | ✓ | ✓ |
| NTC | ✓ | | |

| Screw-in thread | | |
|-----------------|--------------------|----------------------------------|
| Picture | Screw-in thread | Technical drawing |
| | Material | Stainless steel 1.4301 SUS 304 |
| | Length (mm) | 9 |
| | Process connection | M6x9 |
| | Wrench size | 10 |
| | | |

| E - Cable material and configuration connection cable | | | | | | | | | | | | |
|---|-------|-----------------|-------|------|-------------------------|-----------------------|------------------|-----------------|----------------|----------------------|------------------------------------|---------------------|
| Picture | Code | Connection Type | Color | IP | From (°C) ¹⁾ | To (°C) ¹⁾ | Outside material | Material strand | Color strand | Ø (mm) ²⁾ | Q (mm ²) ³⁾ | Ω / m ⁴⁾ |
| | E5500 | 2-Wire | white | IP67 | -50 | +260 | PFA | PFA | rd, wt | 2,4 | 0,22 | 0,09 |
| | E5501 | 3-Wire | white | IP67 | -50 | +260 | PFA | PFA | rd, wt, rd | 2,4 | 0,22 | 0,09 |
| | E5503 | 4-Wire | white | IP67 | -50 | +260 | PFA | PFA | rd, wt, rd, wt | 2,7 | 0,22 | 0,09 |

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | ¹⁾Perm. range °C | ²⁾Tolerance ± 0,2 mm | ³⁾ Tolerance ± 0,03 mm² | ⁴⁾ per single strand

| F - Length | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|--|
| Code | F010 | F020 | F030 | F040 | F050 | F100 | F150 | F200 | |
| m | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | |

Other lengths on request

| G - Connector | | |
|---------------|------|--------------------------------|
| Picture | Code | Feature |
| | G01 | Insulated end ferrules (50 mm) |

| H - Bend protection | | | | |
|---------------------|-------------|---|------|--------------------------|
| Picture | Length (mm) | Material | Code | Feature |
| | 50 | Stainless steel spring 1.4310 SUS 302 | H0 | Without (Standard) |
| | | | H1 | Metal bend protection 1) |

¹⁾on request

| Delivery and Assembly | |
|------------------------|--------------------------------------|
| Assembly instructions | via process connection |
| Delivery and Packaging | Probe, separately packaged in PE bag |

| Your order code | | | | | | |
|-----------------|-------------------|-----------------|---------------------------|-------------------------|-----------|-----------------|
| Article no. | Measuring element | Connection Type | Material connection cable | Length connection cable | Connector | Bend protection |
| 803172 1011 | A_____ | B_____ | E_____ | F_____ | G_____ | H_____ |

MW / KC / 30.04.2024

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Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

Technical drawing

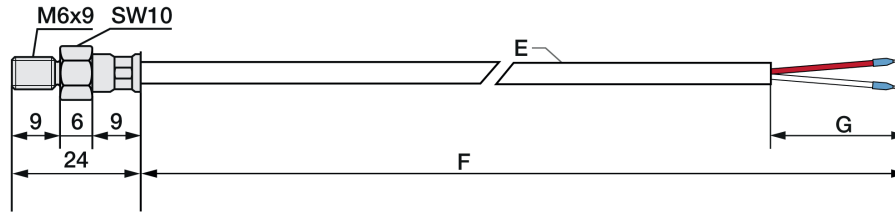
Customizable options

- A - Measuring element
- B - Connection Type
- E - Material connection cable

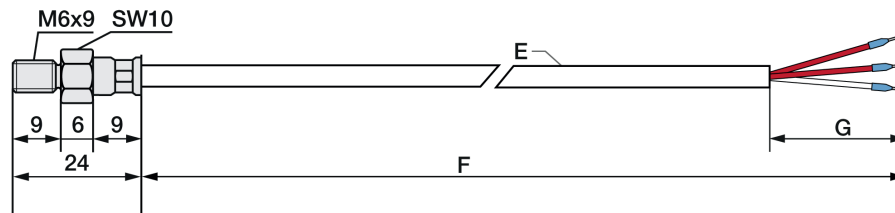
- F - Length connection cable
- G - Connector
- H - Bend protection
- All dimensions in mm

All dimensions in mm

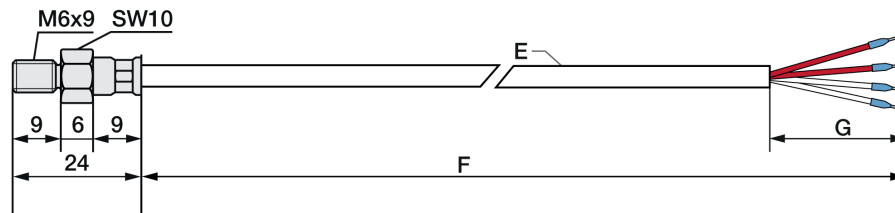
2-Wire version



3-Wire version



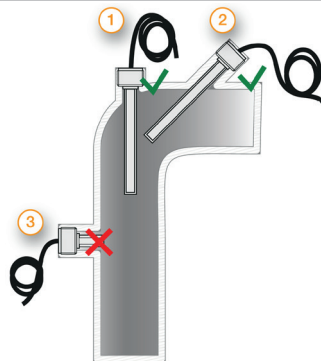
4-Wire version



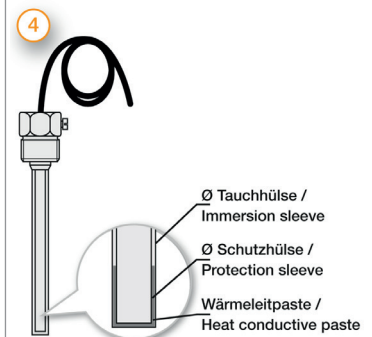
Delivery and Assembly

Delivery and Packaging Probe, separately packaged in PE bag

Important assembly advices



Measurement errors can occur due to heat dissipation to the environment. To keep these as small as possible, we recommend immersing the protection sleeve of your temperature probe as deeply as possible in the medium to be measured during installation. The optimum installation depth should be 10-15 times the \varnothing of the protection sleeve or, when using an immersion sleeve, the \varnothing of the immersion sleeve. When installing in pipelines whose \varnothing does not have a sufficiently deep installation depth, you should install the probe either at an angle or in a pipe elbow. Make sure that you have sufficient space so that the probe can be removed again. 1) Installation with sufficient installation depth 2) Installation at an angle with small pipe \varnothing 3) Not like this: Minimum installation depth not reached



Please lay the cable in such a way that no water can penetrate the probe and with reserve loop (4). This allows you to extend the probe without disconnecting the electrical connection.

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Passendes Zubehör

Details of accessories can be found on our website.

| Heat-conducting paste | | |
|---|----------------------|--------------------|
|  | Article no. | 809540 1000 |
| | Content | 10 ml |
| | Thermal conductivity | >2.5 W/mK |
| | Min / Max °C | -30 °C to +280 °C |
| | Thermal resistance | < 0.126 |

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