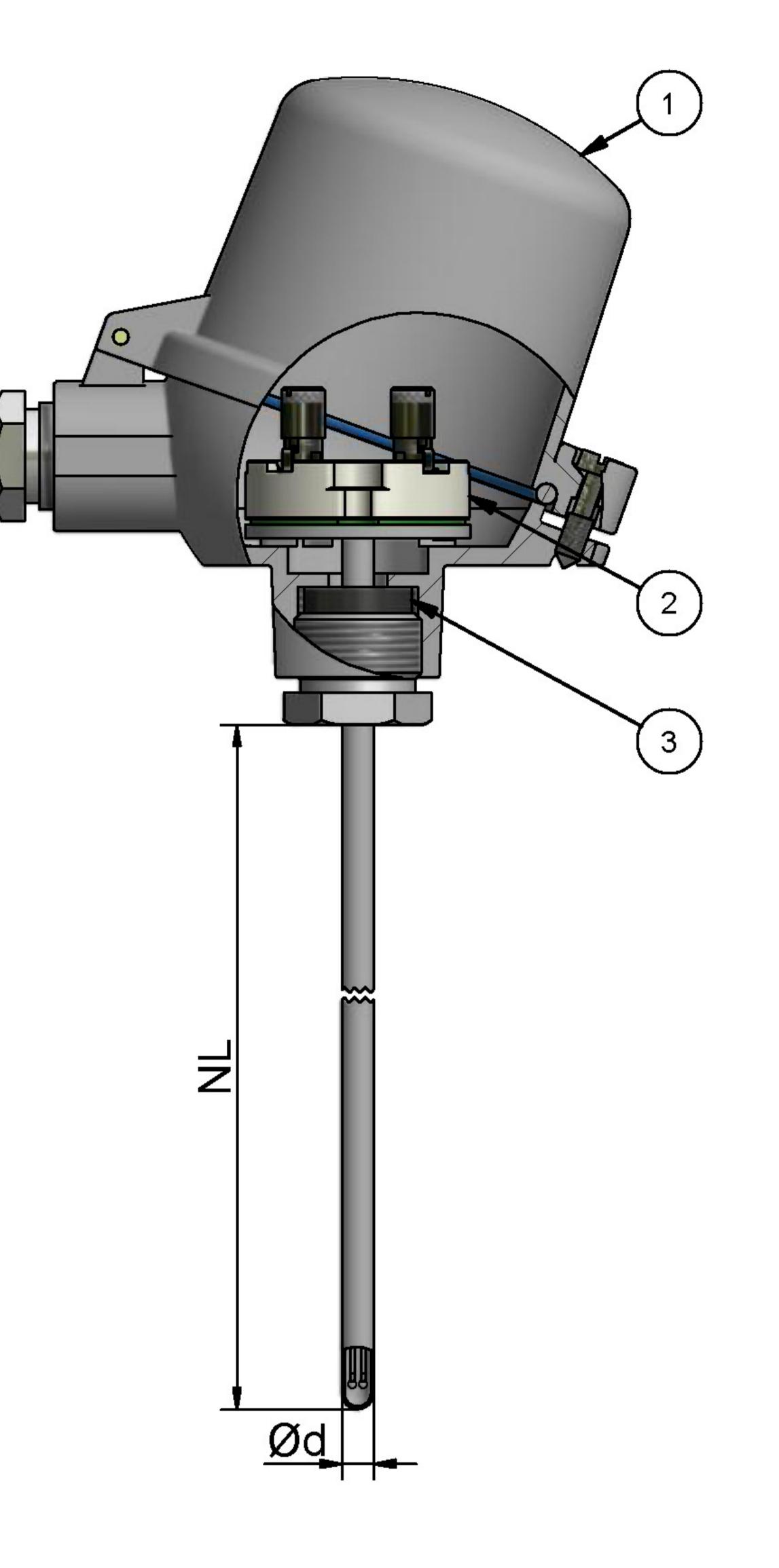
Ex-Mineral Insulated Thermocouple model B

for operation in the hazardouse area with gas or dust



The temperature sensors manufactured by Reckmann GmbH (R58[®]) are solely intended for the measurement of process temperatures in solid, liquid and gaseous media. The bendable sheath material, in combination with a sliding compression fitting, allows for variable installation.

Application area:



Uncritical process contiotions at machine and plant engineering, chemicals industry, Research / Development

Depended on electrical and thermal parameters for operating with the following types of protection: II 2G Ex ia IIC T1...T6 Gb or II 2D Ex ia IIIC T135 °C Db. Ambient temperature at the connection head max. -40 °C up to +100 °C. For installation please see our operating instructions Stock-number-code: TR14-J-D / TR14-J-Q

Technical datas

- **Connection head** (fig. 1/1) according to DIN EN 50446. Standard connection heads: Form B-G12, B-KL, B-VA, BA-KL, BA-KLH, B-KUKL, B-KUHKL, IP 54. Dimension see page 2. on request: up to IP 65 or IP 67

• Measuring insert (fig.1/2) replaceable according to DIN 43735 mounted in connection head (fig. 1/1). **Sensor** depending on use: with 1 or 2 thermocouples according to IEC / EN 60584-1. Operating temperature MIT (fig. 1/5) depended on the thermocouple type and diameter -40°C up to:

- Type J: Ø 3,0 mm up to 520°C, Ø 4,5 up to 620°C, 6,0 und 8,0 mm up to 720°C. Type K: Ø 3,0 mm up to 1070°C, Ø 4,5; 6,0 and 8,0 mm up to 1100°C. Type N: Ø 3,0 mm up to 1070°C, Ø 4,5; 6,0 and 8,0 mm up to 1100°C. Type E: Ø 3,0 mm up to 650°C, Ø 4,5 up to 730°C, 6,0 und 8,0 mm up to 820°C. Type T: Ø 3,0 mm up to 315°C, Ø 4,5 / 6,0 and 8,0 mm up to 350°C.
- Notice: Process temperatures above 450 °C are only possible with appropriate process decoupling. MTE ground welded or Sensors with Ø 3 mm and more than 4 inner conductors, $\emptyset < 3$ mm, $\emptyset > 3$ mm and more than 6 inner conductors are considered to be non-insulated or grounded in accordance with IEC / EN 60079-11 (dielectric strength) and must be connected to equipotential bonding of the system throughout the intrinsically safe circuit for safety reasons, taking into account the special conditions according to IEC / EN 60079-14.
- Sheath material type according to IEC / EN 61515.

fig. 1

Standard - material 2.4816.

Preference diameter 3 or 6 mm.

- **Process connection** via sliding compression fitting, union nut or welded-on clamping fitting DIN 32676.
- Optional materials for gas and dust explosion protection:

please see operating instructions chapter 4 X-conditions.

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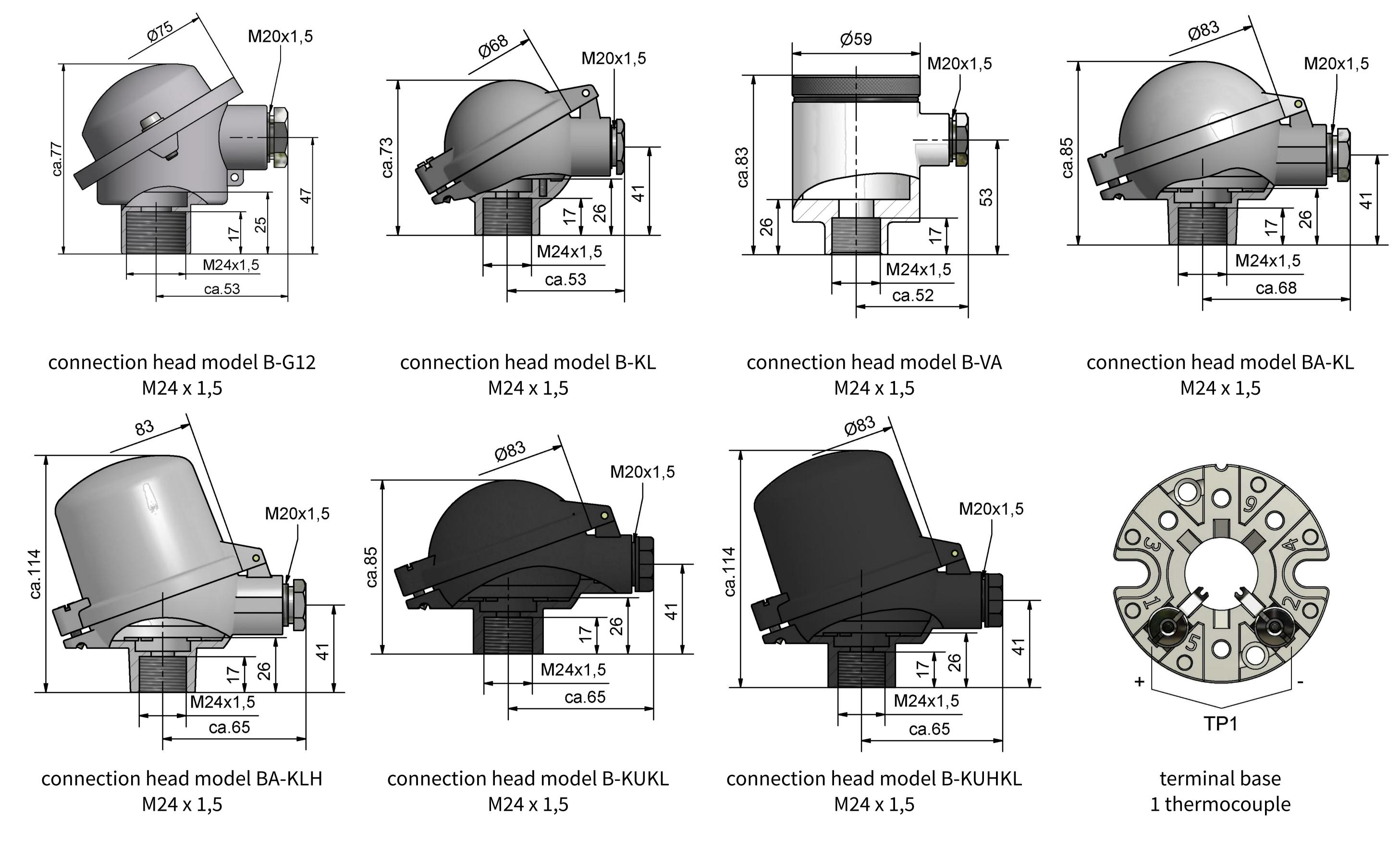
Your partner for temperature

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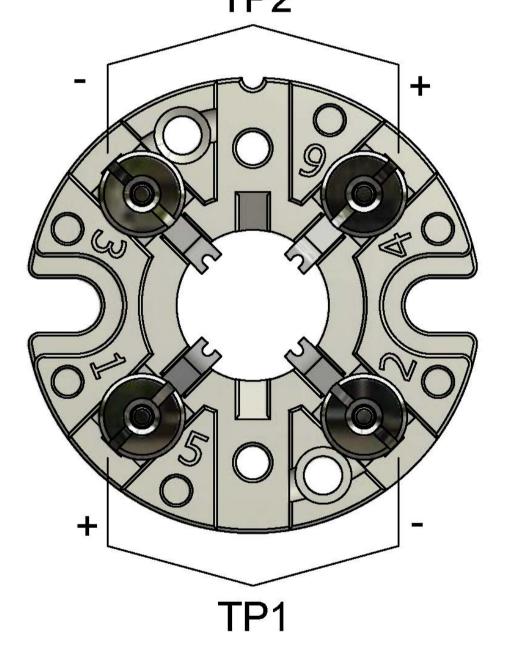


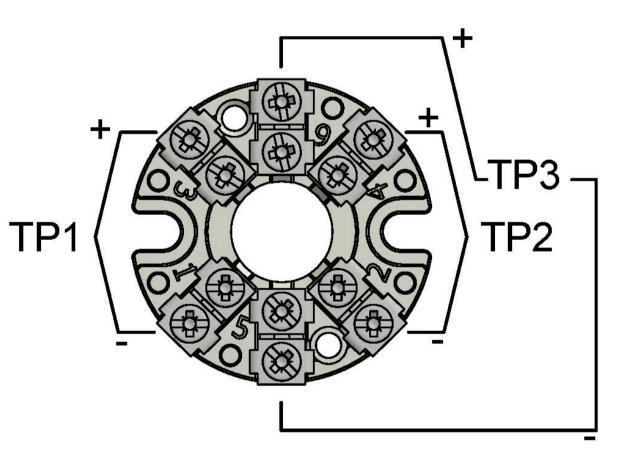
Optional connecting heads / circuit diagram

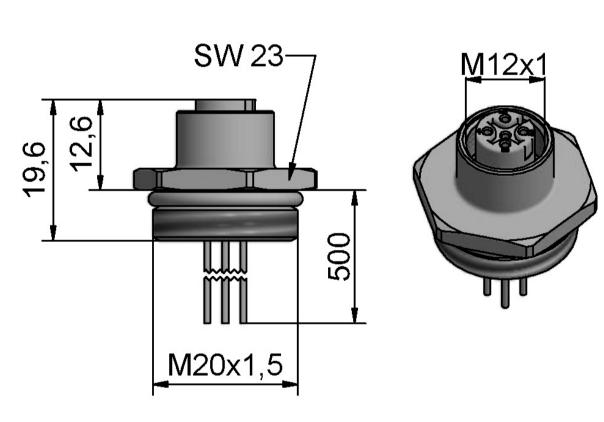
As an alternative to the cable gland, an M12 flush-type connector is possible.

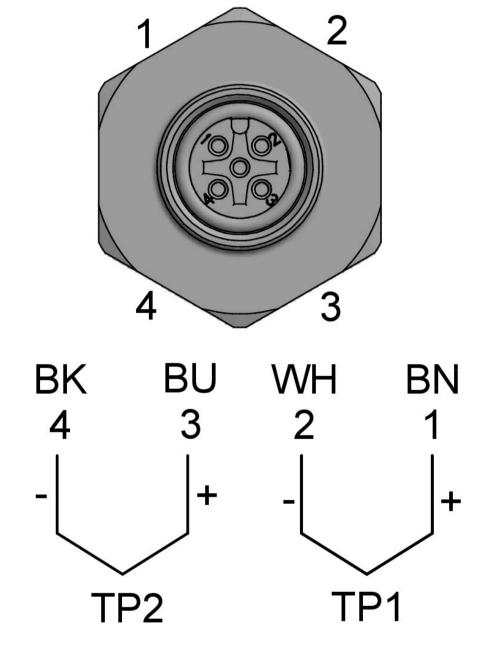


TP2









terminal base 2 thermocouples terminal base 3 thermocouples

M12 insert socket 4-terminals M12 insert socket 2 thermocouples

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