

Ex Mineral Insulated Thermocouple model 2F

MIT with protection shell model 2F according or similar to DIN 43722

In general

Reckmann GmbH temperature sensors (R58®) are used exclusively for measuring process temperatures in solid, liquid or gaseous media. This design allows direct flange-mounting to the process connection of a vessel or pipeline.

Areas of application:

Autoclaves, mechanical and plant engineering,
food and chemical industries,
energy and power plant technology,
building materials industry, recycling, pipeline construction.

For installation-specific data, see installation instructions
Type code 1R9-B3.

Technical datas

- Connection head (fig. 1/1) according to DIN EN 50446,
Preferred heads: Form B, B-KL, B-KS, BA-KL, BA-KS, BA-KLH, BA-KSH, B-VA,
B-GR, B-KU, B-KUKL, B-KUHKL, IP 54. Dimensions see page 2.
On request: IP 65 or IP 67.
- **Protection shell** (fig. 1/3 to 5) according to or similar to DIN 43772.
Standard material 1.4571.
Preferred diameter 9 or 11 mm.
- **Process connection** (fig. 1/4) via welded blind flange according to
DIN EN 1092-1 type 05 or ASME B 16.5.
Preferred flanges DN25 PN40 / DN50 PN16 form B1.
- **Measuring insert** (fig. 1/2) exchangeable, according to or similar to DIN
43735.
Sensor depending on application:
with 1 or 2 thermocouples according to IEC / EN 60584-1.
Recommended application temperature depending on thermocouple type
and diameter:
Type K: Ø 3.0 mm up to 1070 °C, 6.0 and 8.0 mm up to 1100 °C.
Type J: Ø 3.0 mm up to 520 °C, 6.0 and 8.0 mm up to 720 °C.
Type N: Ø 3.0 mm up to 1070 °C, 6.0 and 8.0 mm up to 1100 °C.
Type E: Ø 3.0 mm up to 650 °C, 6.0 and 8.0 mm up to 820 °C.
Type T: Ø 3.0 mm up to 315 °C, 6.0 and 8.0 mm up to 350 °C.
Type S/R: Ø 3.0 and 6.0 mm up to 1300 °C.

Note:

TYPE S/R with sheath of 2.4816 and SR of stainless steel only for 0 °C to
max. 900 °C ("risk of poisoning").

- **Sheath material** design according to IEC / EN 61515.
Preferred material 2.4816.
Preferred diameter 3; 6 or 8 mm.
- **Optional:** Class 3 requirements (-200 °C to 40 °C) on request. For requirements of class 1 and class 3 only possible with specially
selected sheath material, high expense and not with type T. Translated with www.DeepL.com/Translator (free version)

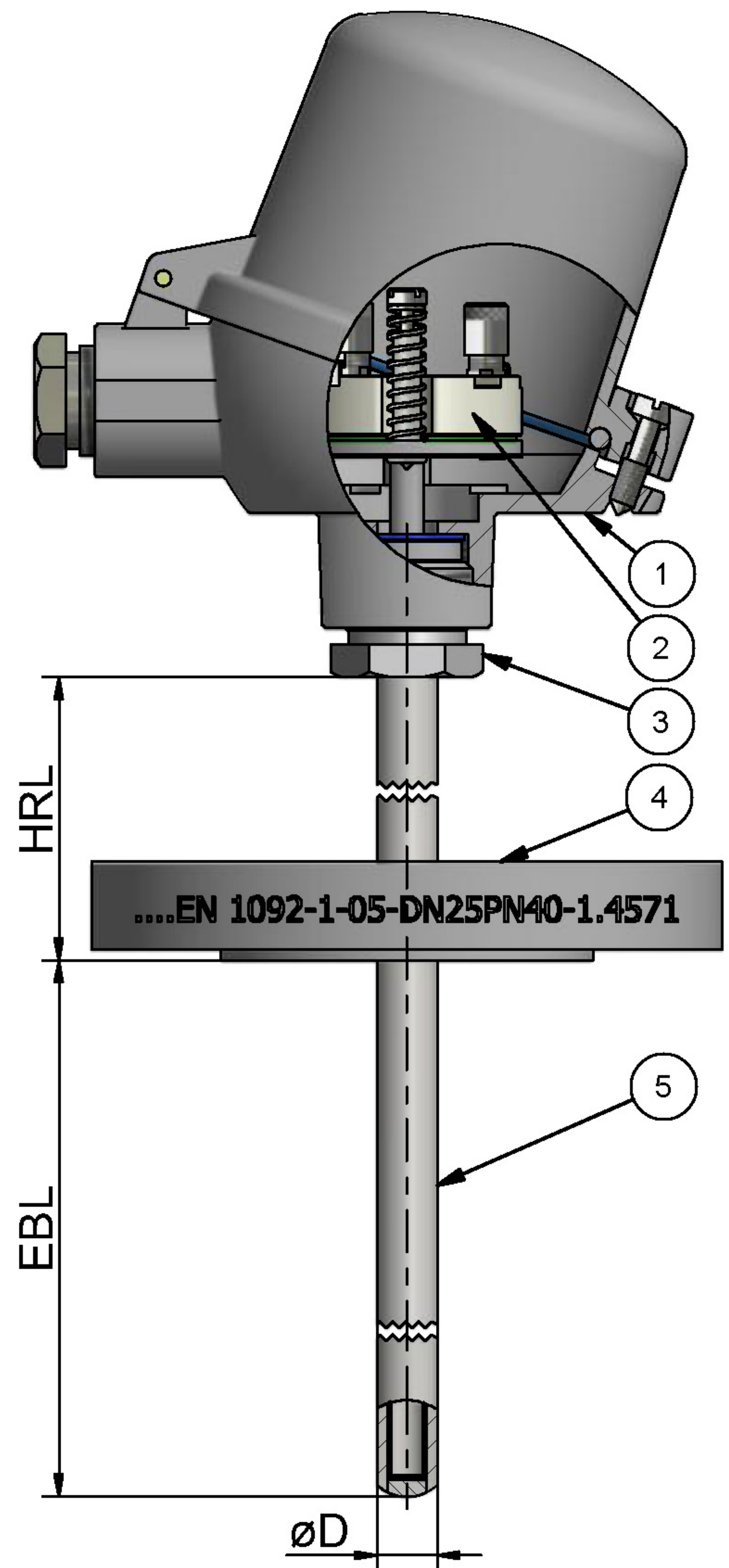
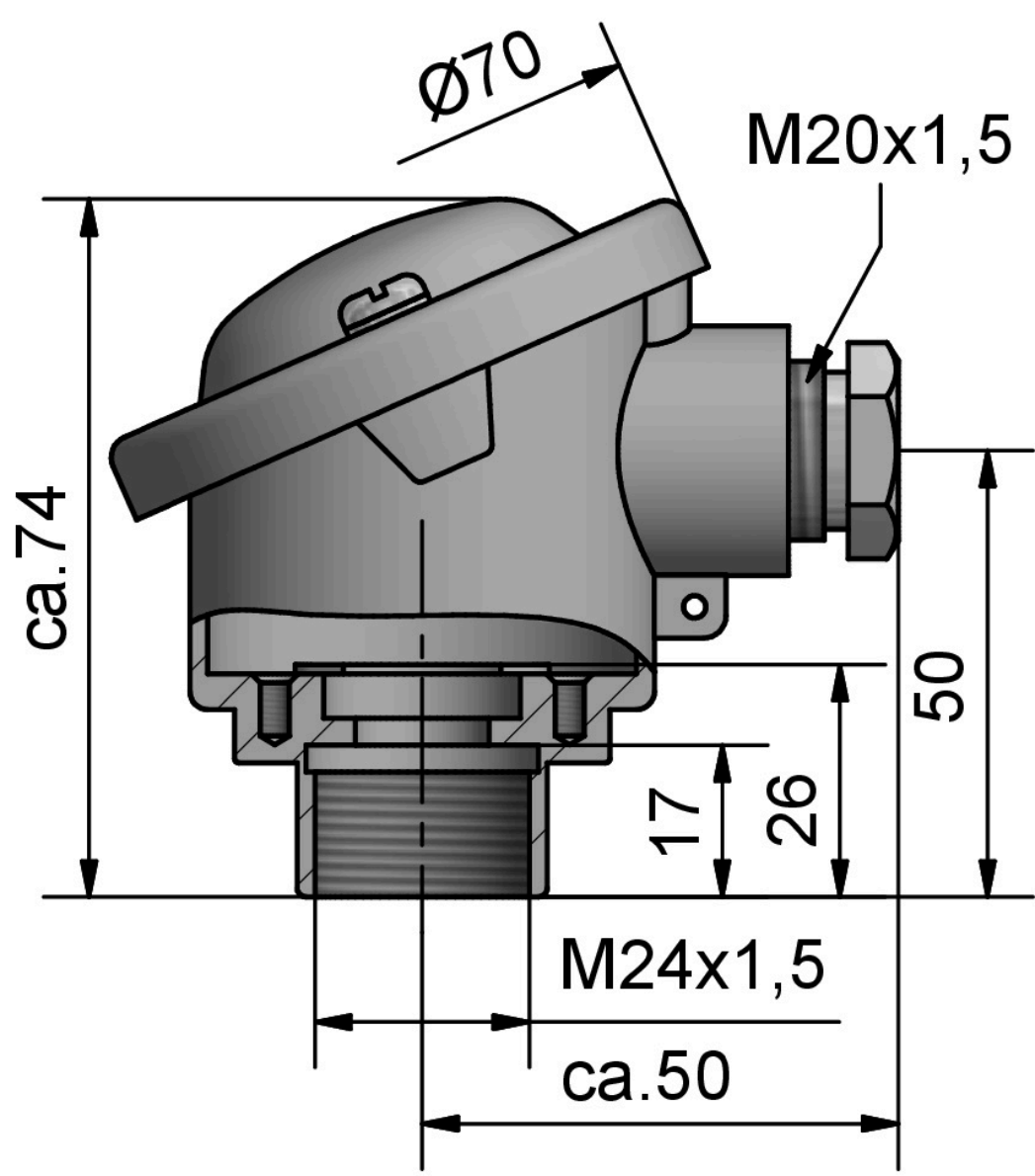


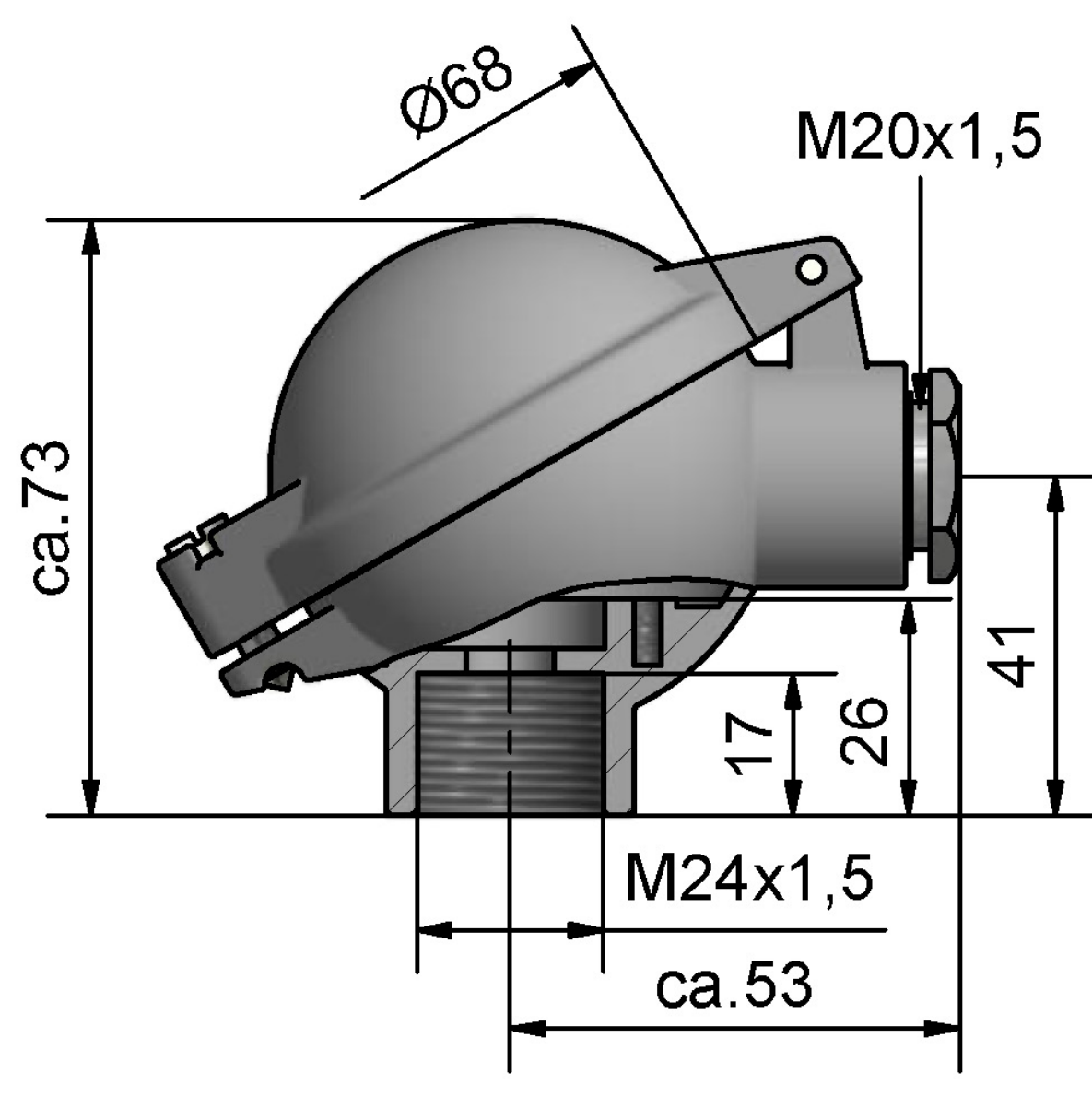
fig. 1

Optional connection heads / connection diagrams

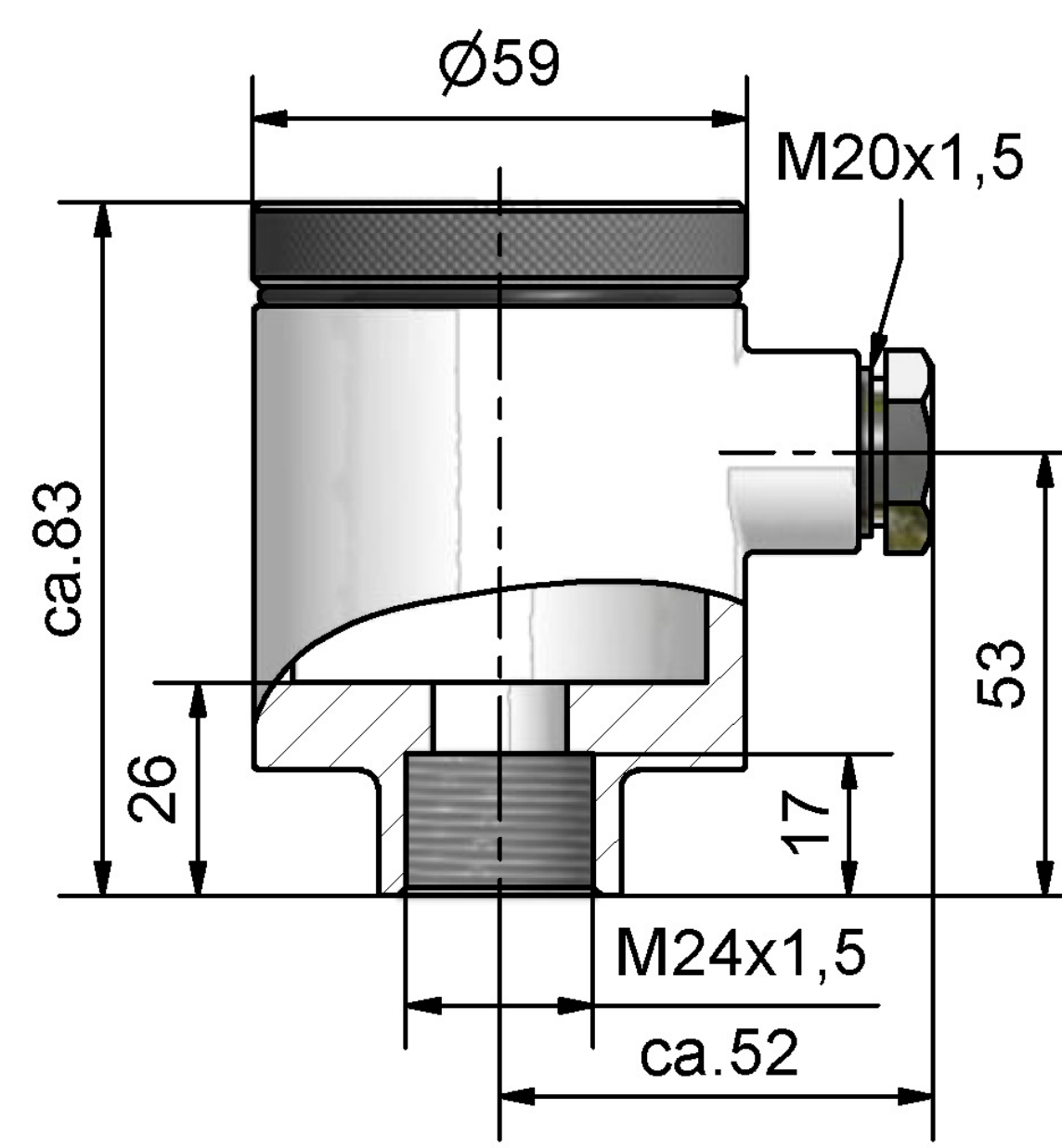
As an alternative to the cable gland, an M12 flush-type connector is possible.



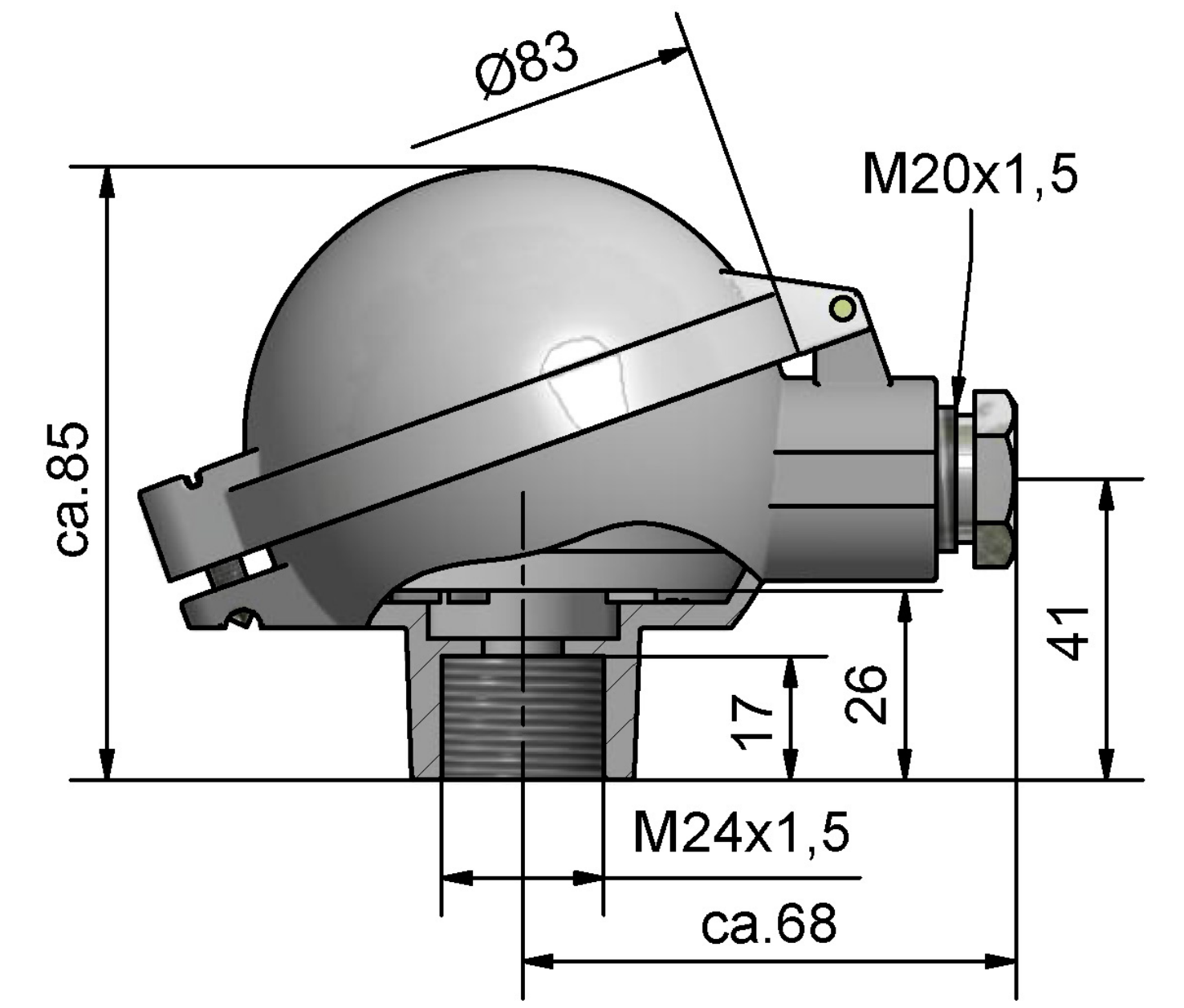
head model B
M24 x 1,5



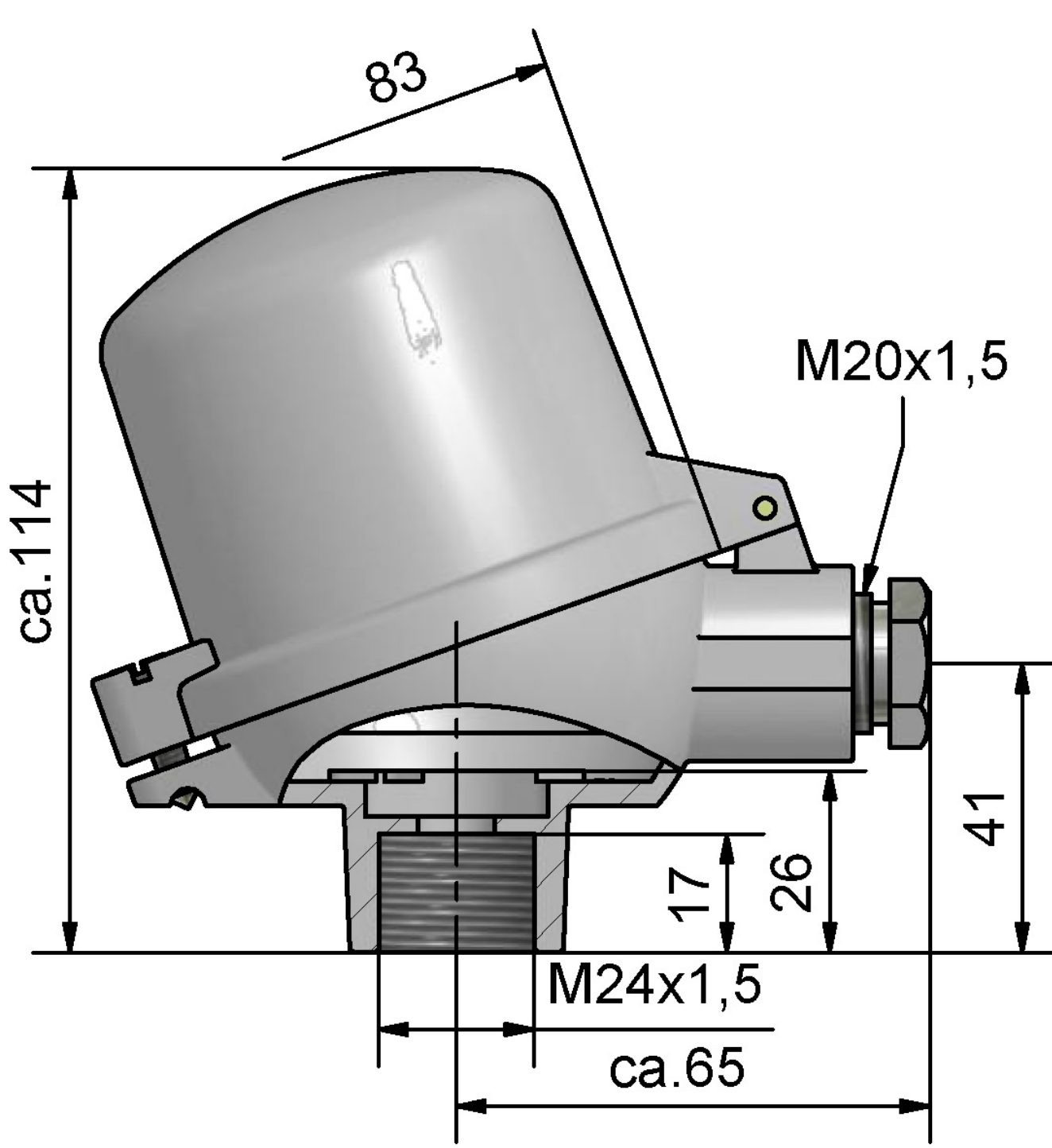
head model B-KL
M24 x 1,5



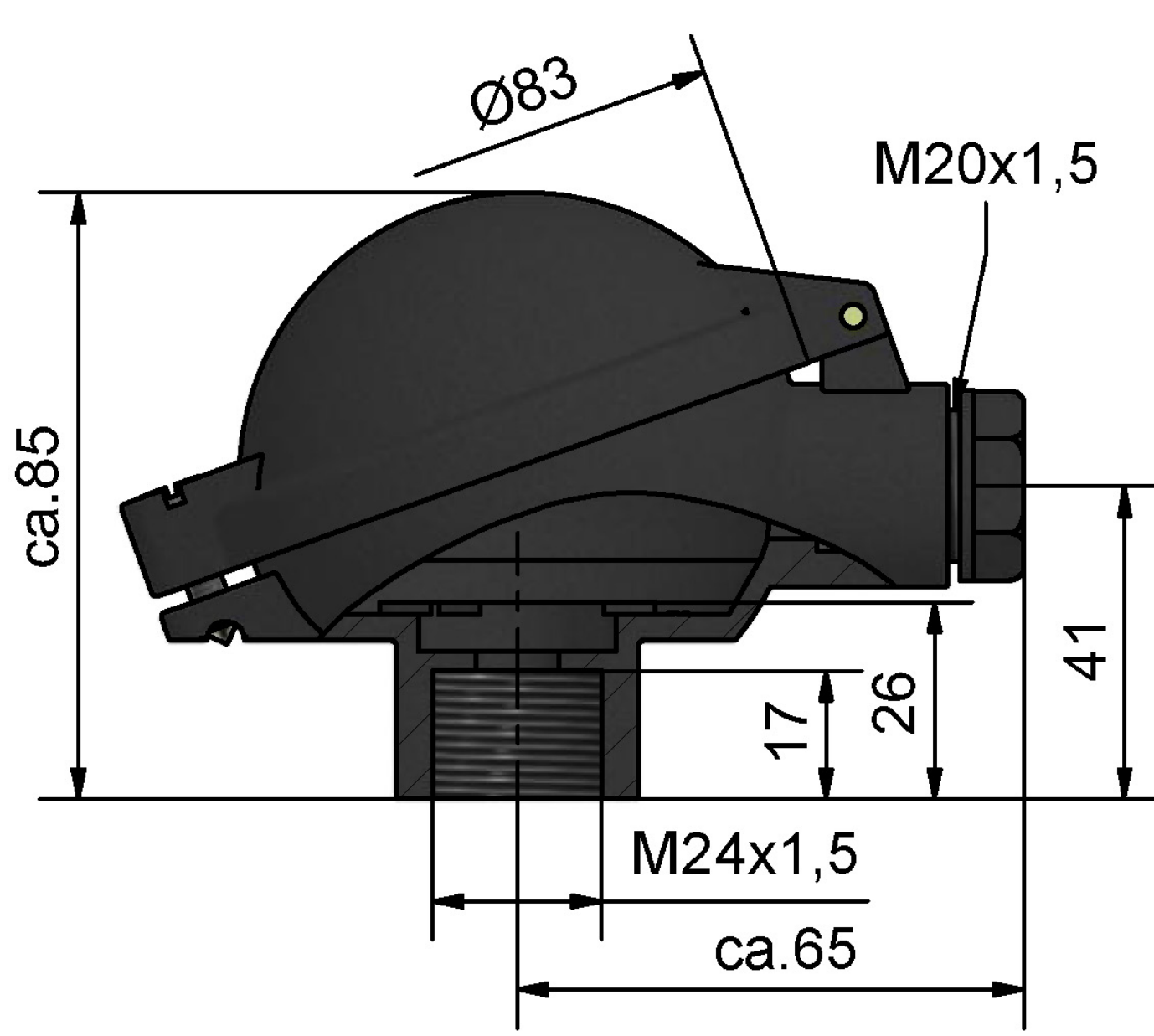
head model B-VA
M24 x 1,5



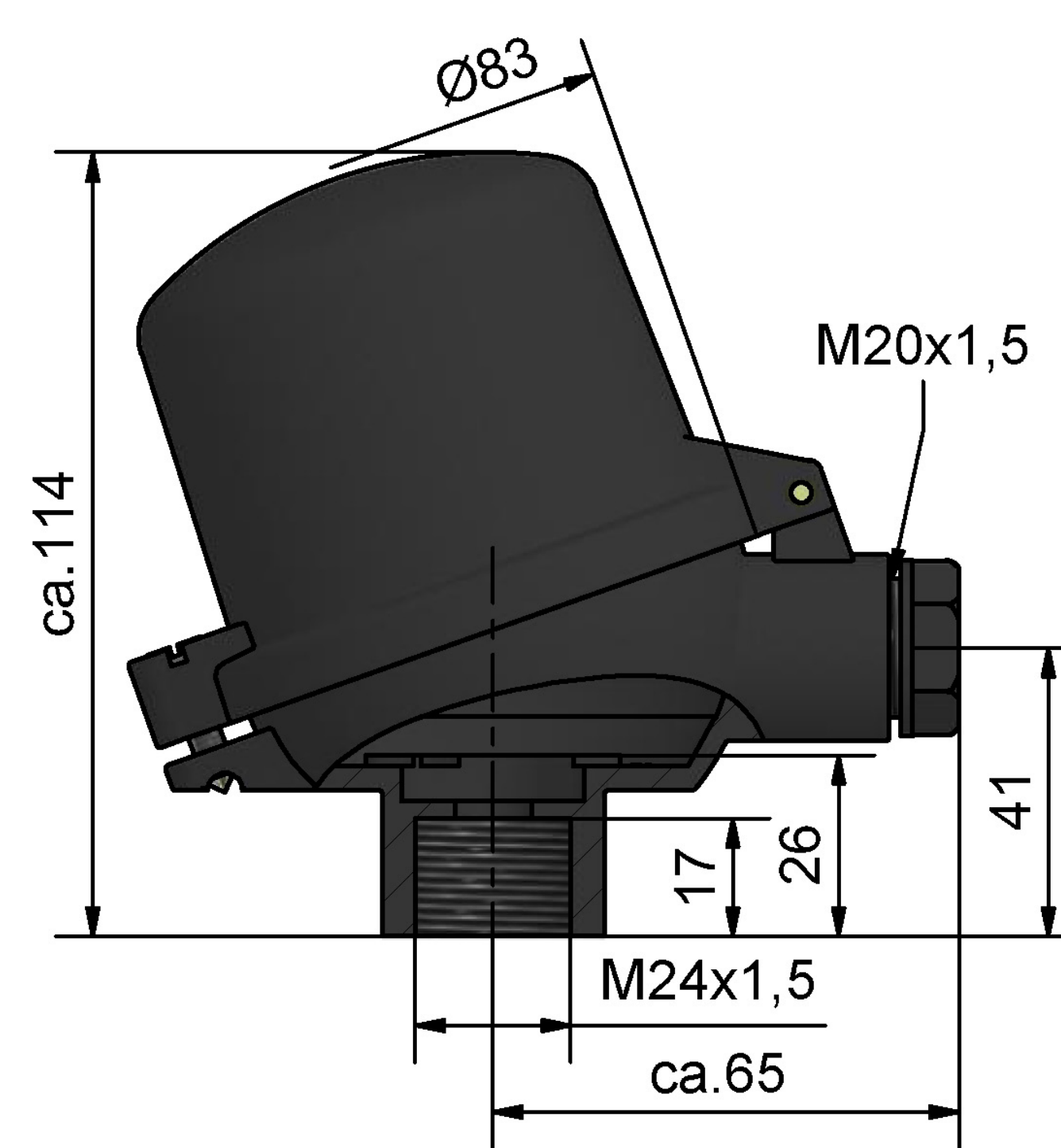
head model BA-KL
M24 x 1,5



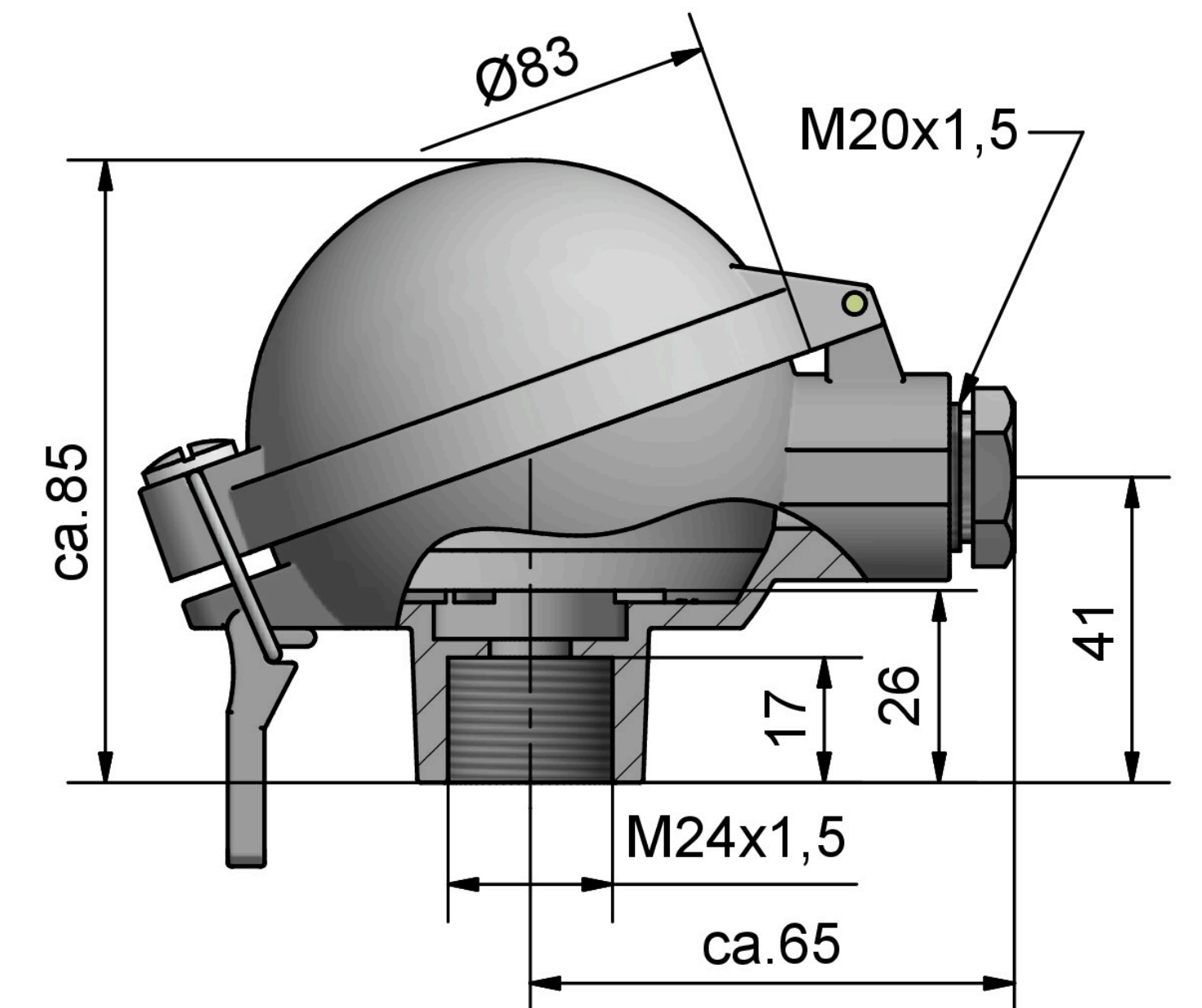
head model BA-KLH
M24 x 1,5



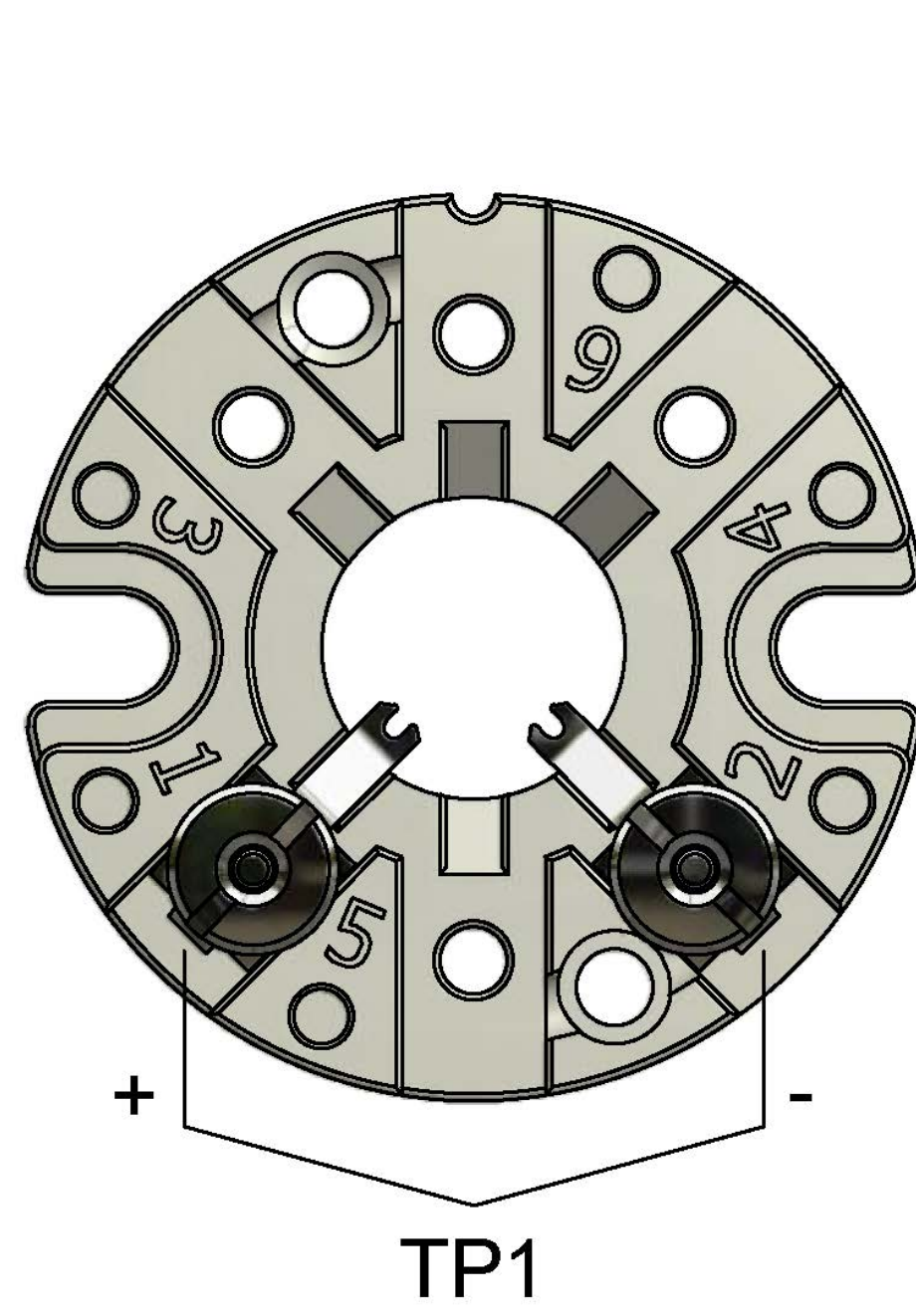
head model B-KUKL
M24 x 1,5



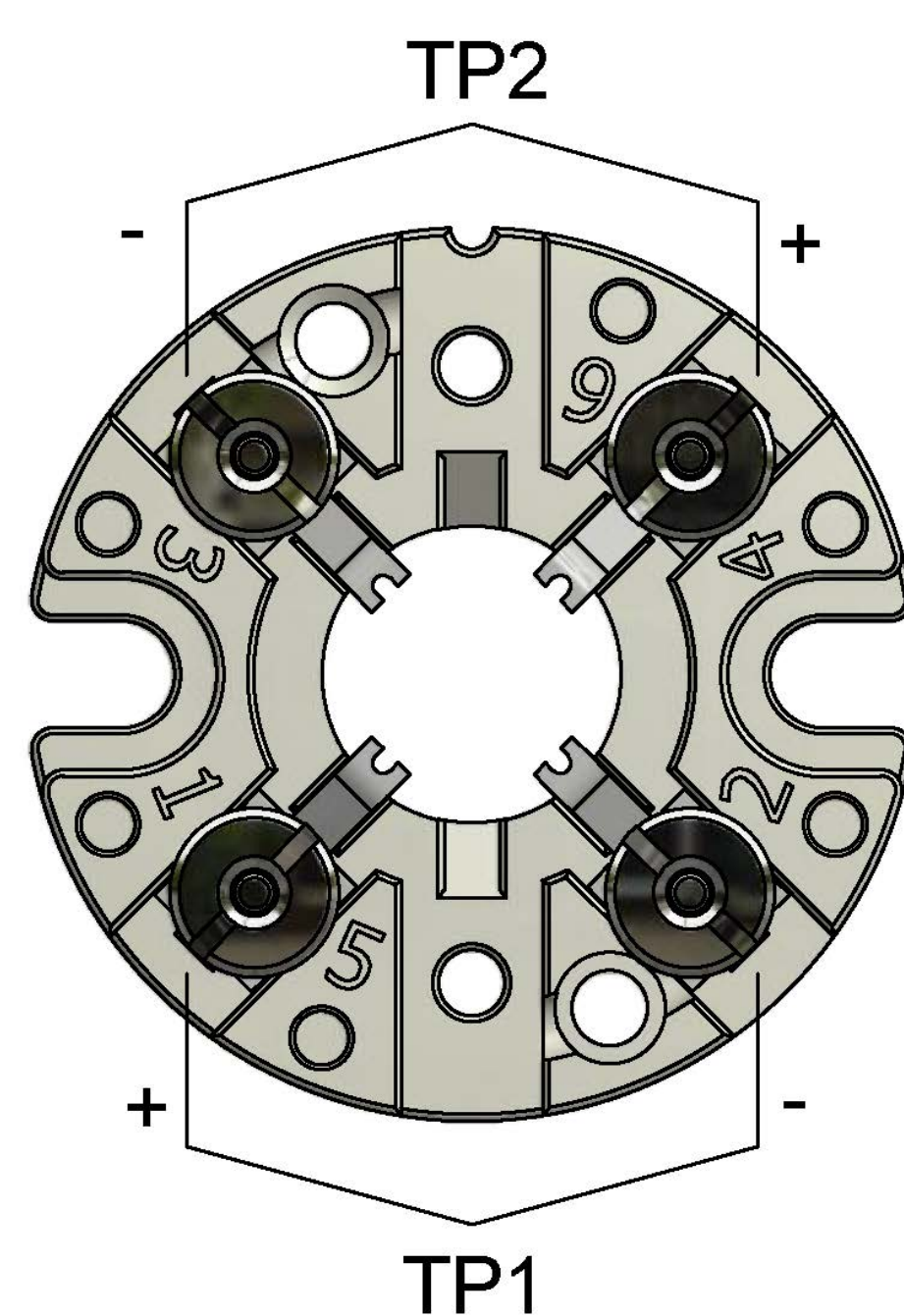
head model B-KUHKL
M24 x 1,5



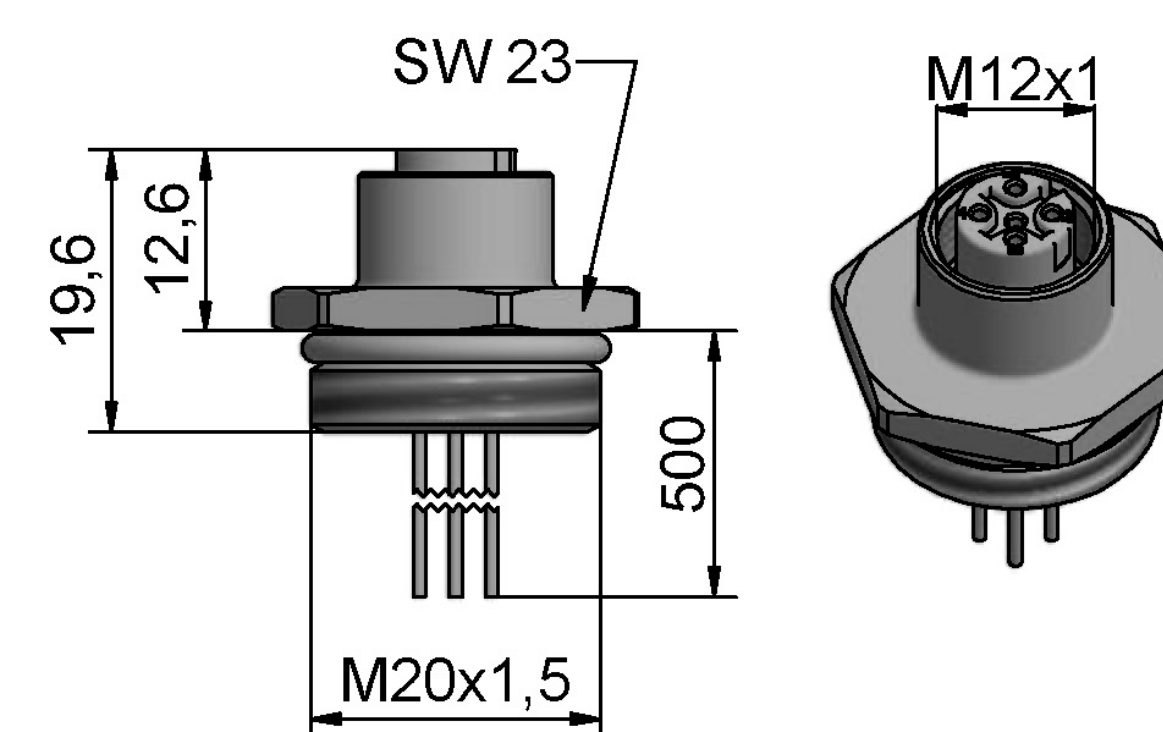
M24 x 1,5



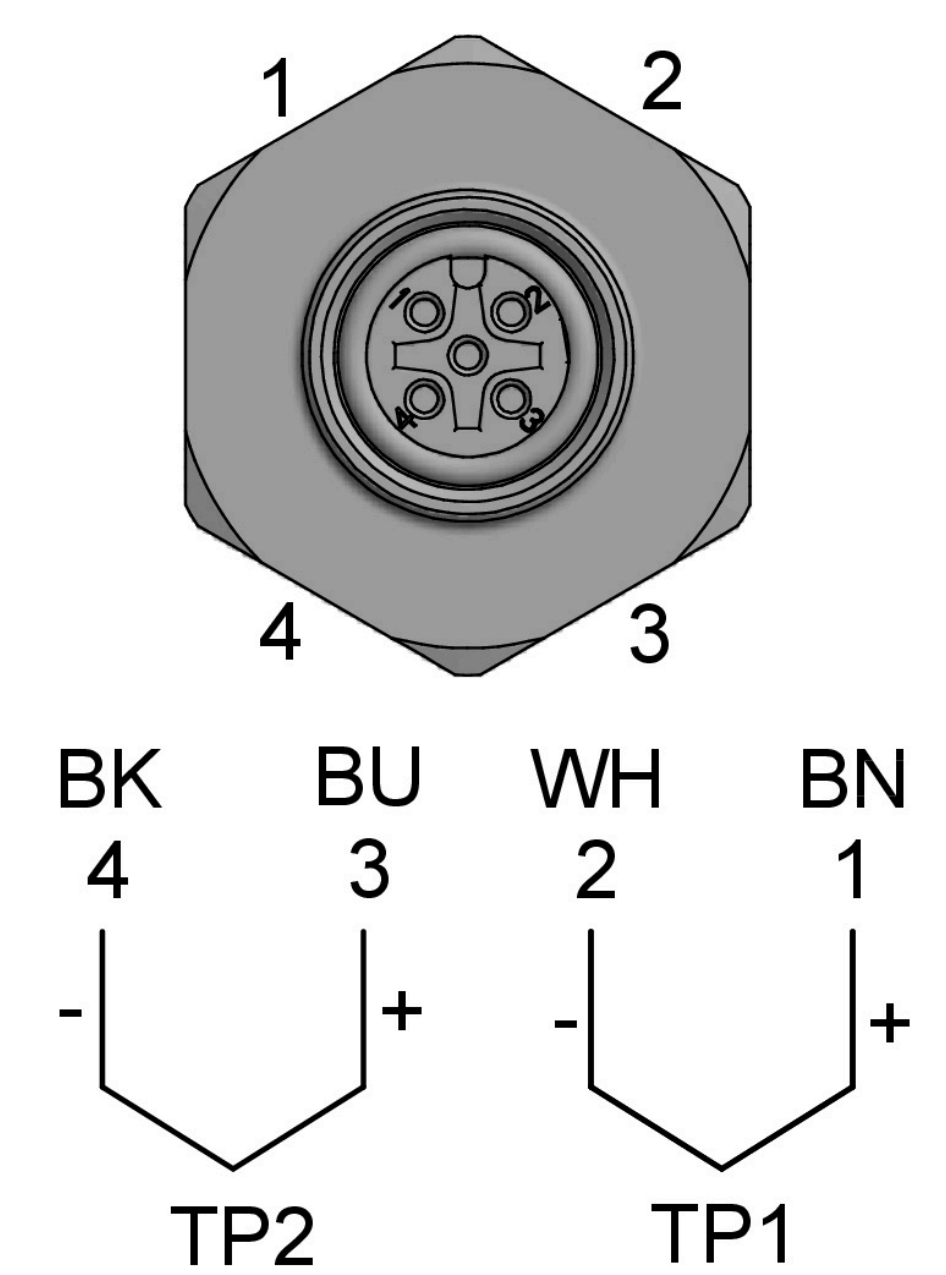
Terminal base model B
1 thermocouple



Terminal base model B
2 thermocouple



M12 Insert socket
4 terminals



M12 Insert socket
2 thermocouples