Mineral Insulated Thermocouple model 2G

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

In general

The ex temperature sensors listed in this document are solely intended for the measurement of process temperatures in solid, liquid and gaseous media. This model allow a directly screw in into the process connection of a autoclave or pipeline.

Areas of application:
Autoclaves, machine and plant construction,
food and chemical industry,
energy and power plant technology,
building materials industry, recycling, pipeline construction.

For installation-specific data, see installation instructions
Type code 1R9-B2.

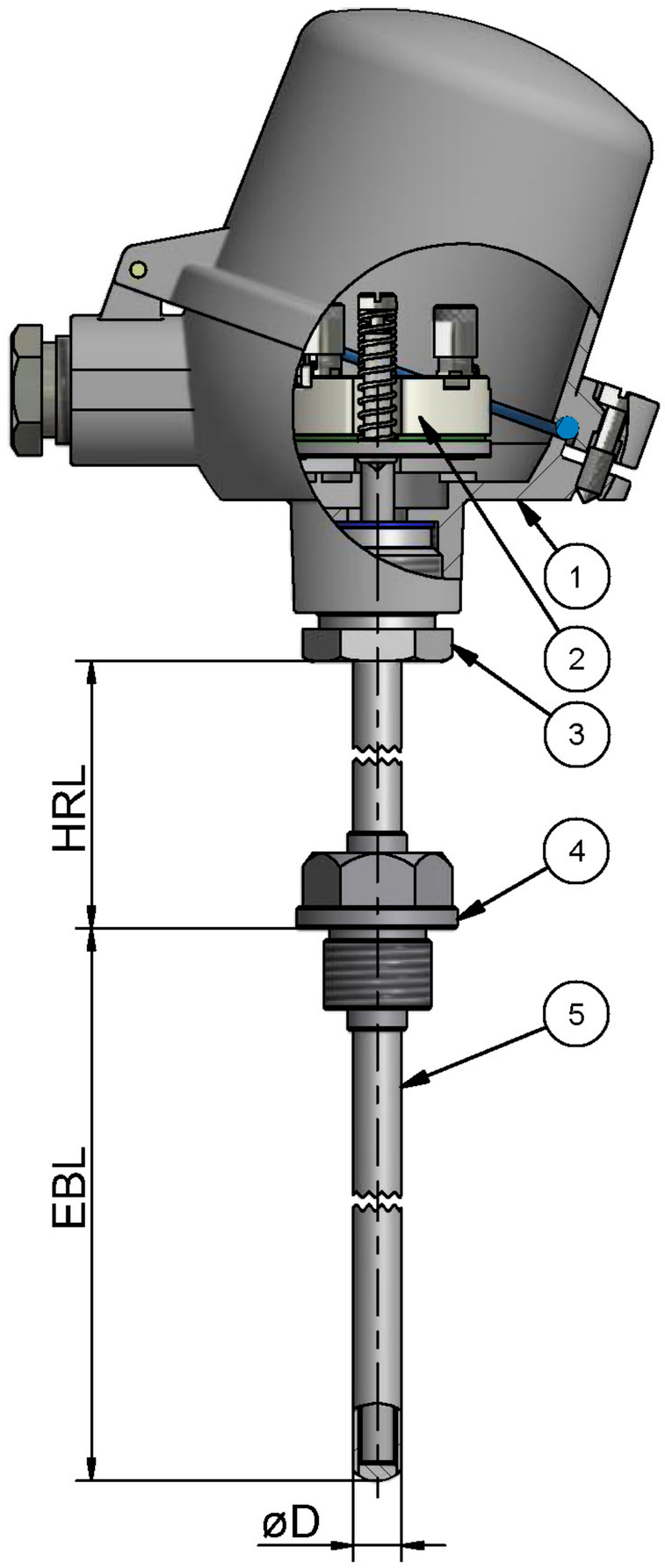

fig. 1

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
  Process connection (fig. 1/4) via welded screw-in spigot with all common threads. Standard thread G1/2".
- **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)

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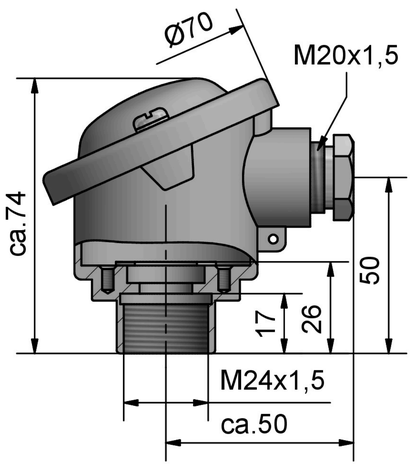
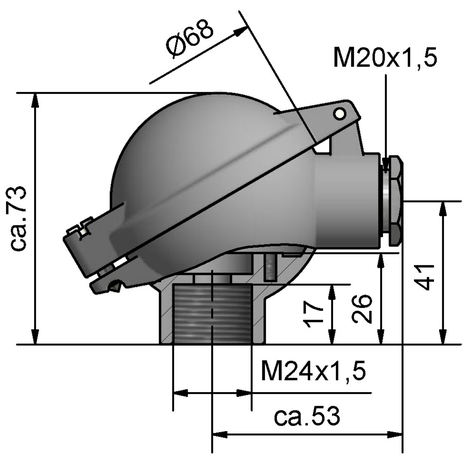
Optional connection heads / connection diagrams

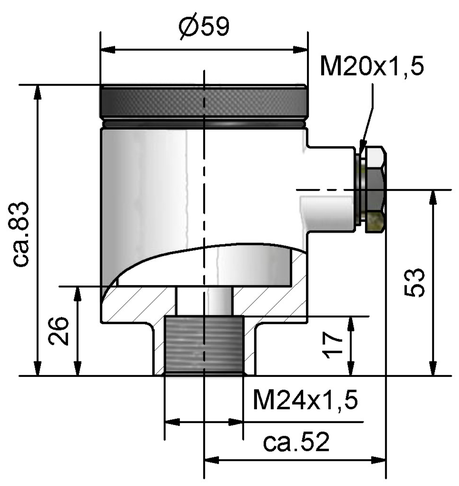
As an alternative to the cable gland, an M12 flush-type connector is possible.



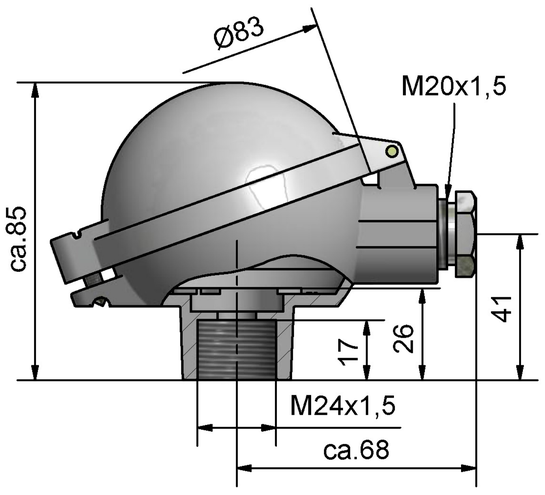
head model B
M24 x 1,5



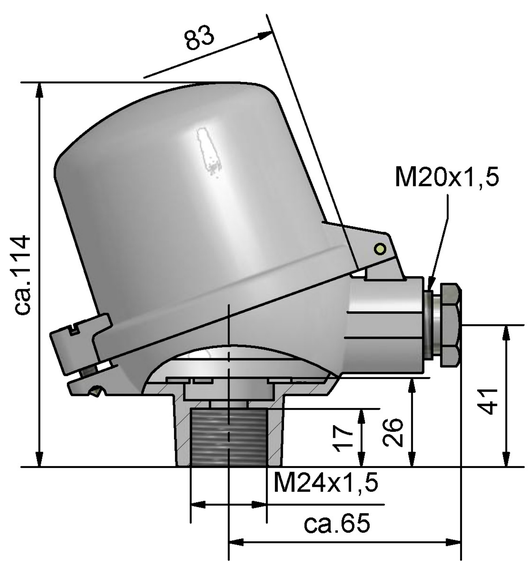
head model B-KL
M24 x 1,5



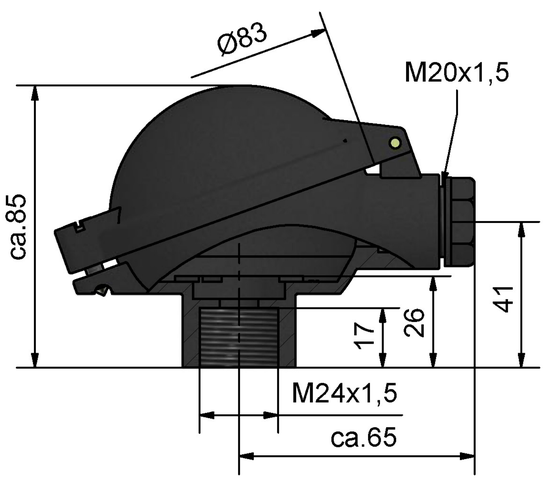
head model B-VA
M24 x 1,5



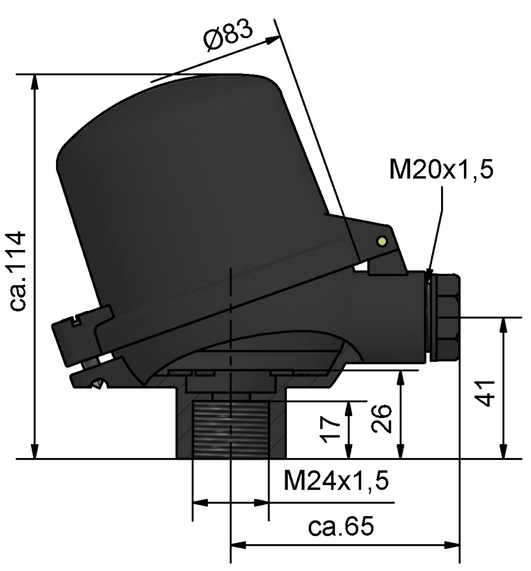
head model BA-KL
M24 x 1,5



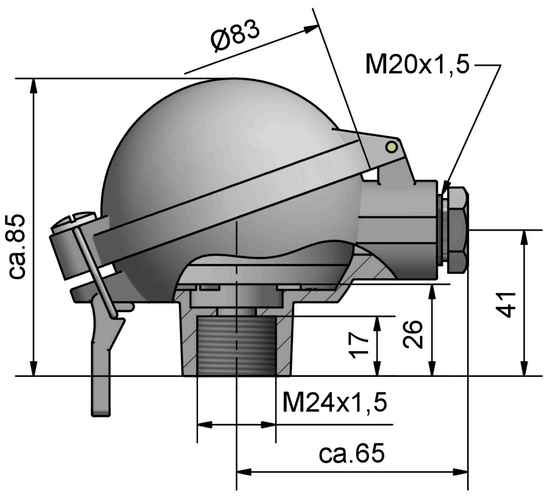
head model BA-KLH
M24 x 1,5



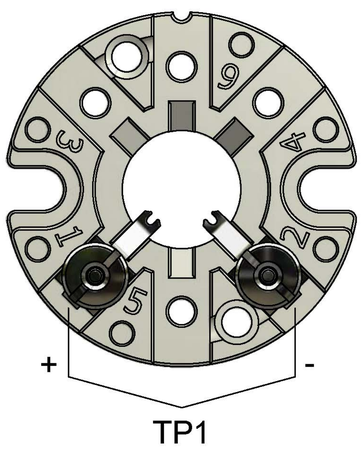
head model B-KUKL
M24 x 1,5



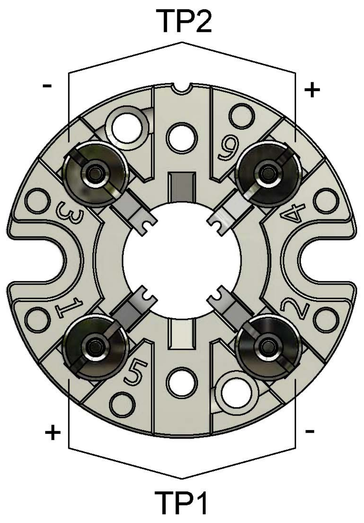
head model B-KUHKL
M24 x 1,5



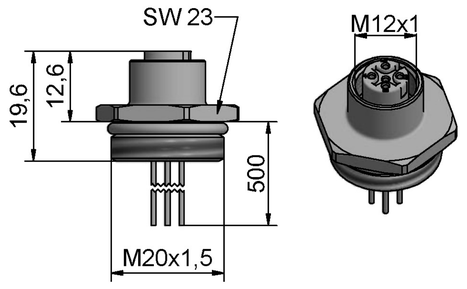
head model BA-KS
M24 x 1,5



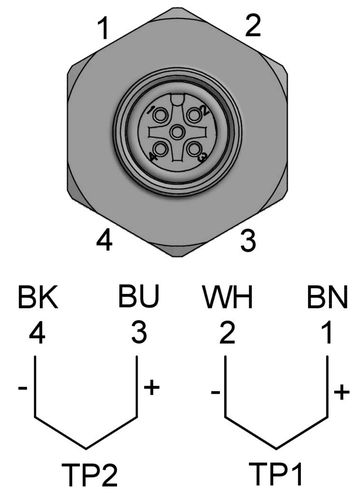
Terminal base model B
1 thermocouple



Terminal base model B
2 thermocouples



M12 Insert socket
4 terminals



M12 Insert socket
2 thermocouples

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