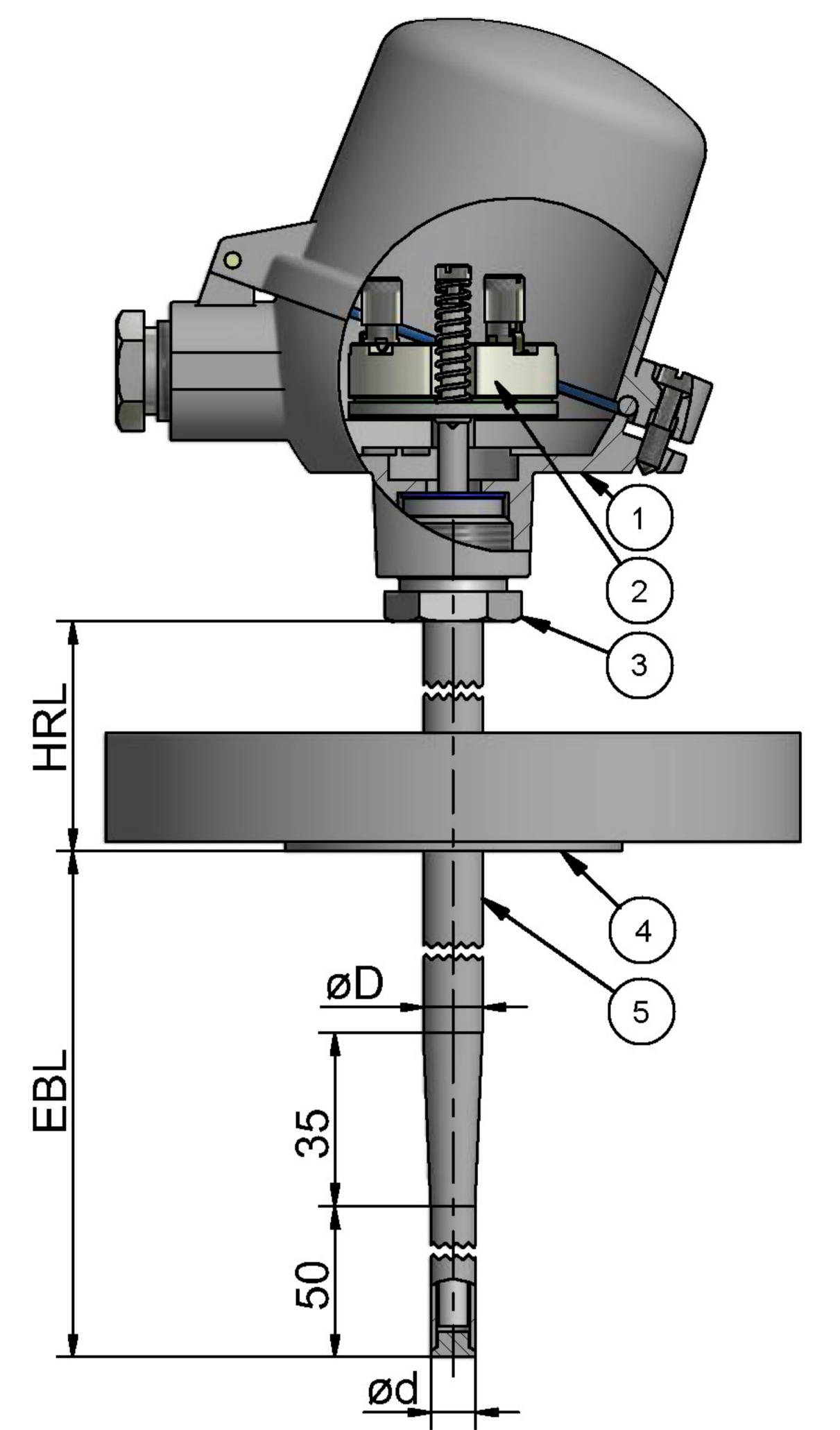
Ex Mineral Insulated Thermocouple model 3F

for operation in the hazardous 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. This design allows a direct flanging to the weld-neck-flange of a process vessel or a pipeline. The tapering reduces the response time.

Application area: Autoclave, machine and plant engeneering, chemicals industry, power plant technology industry of building materials, recycling



Depended on electrical and thermal parameters for operating with the following types of protection: II 1/2G Ex ia IIC T1...T6 Ga/Gb or II 1/2D Ex ia IIIC T135 °C Da/Db. For installation please see our operating instructions. **Ex-stock-number-code: TR15-J.**

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. IP54, Dimension see page 2. On request IP65 or IP67.
- **Protection shell** (fig. 1/3 up to 4) according or similar to DIN 43772. Standard material 1.4571.

Standard - D/d 12 tapered to 9 mm.

- **Process connection** (fig.1/4) by welded blind flange according DIN EN 1092-1 Typ 05 or ASME B 16.5.
- Standard flange DN25 PN40 / DN50 PN16 model B1.
- Measuring insert (fig.1/2) replaceable according or similar to DIN 43735. **Sensor** depended 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:
 - 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 bis 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.
 - Double sensor with exi-transmitter only on request.
- Sheath material according to IEC / EN 61515.
 - Standard material 2.4816,



Standard diameter 3 or 6 mm.

- **Protection shell** (fig. 1/3 up to 4) the following demension are acceptable: outer diameter(D) \geq 6,0 mm, wall thickness(S) \geq 1,0 mm, base thickness \geq 1,3 x S [mm]. nominal length (NL) max. 8000 mm.
- Optional materials for gas and dust explosion protection: please see our Ex-Operating Instructions chapter 4 Ex-Conditions.

MESS + REGELTECHNIK

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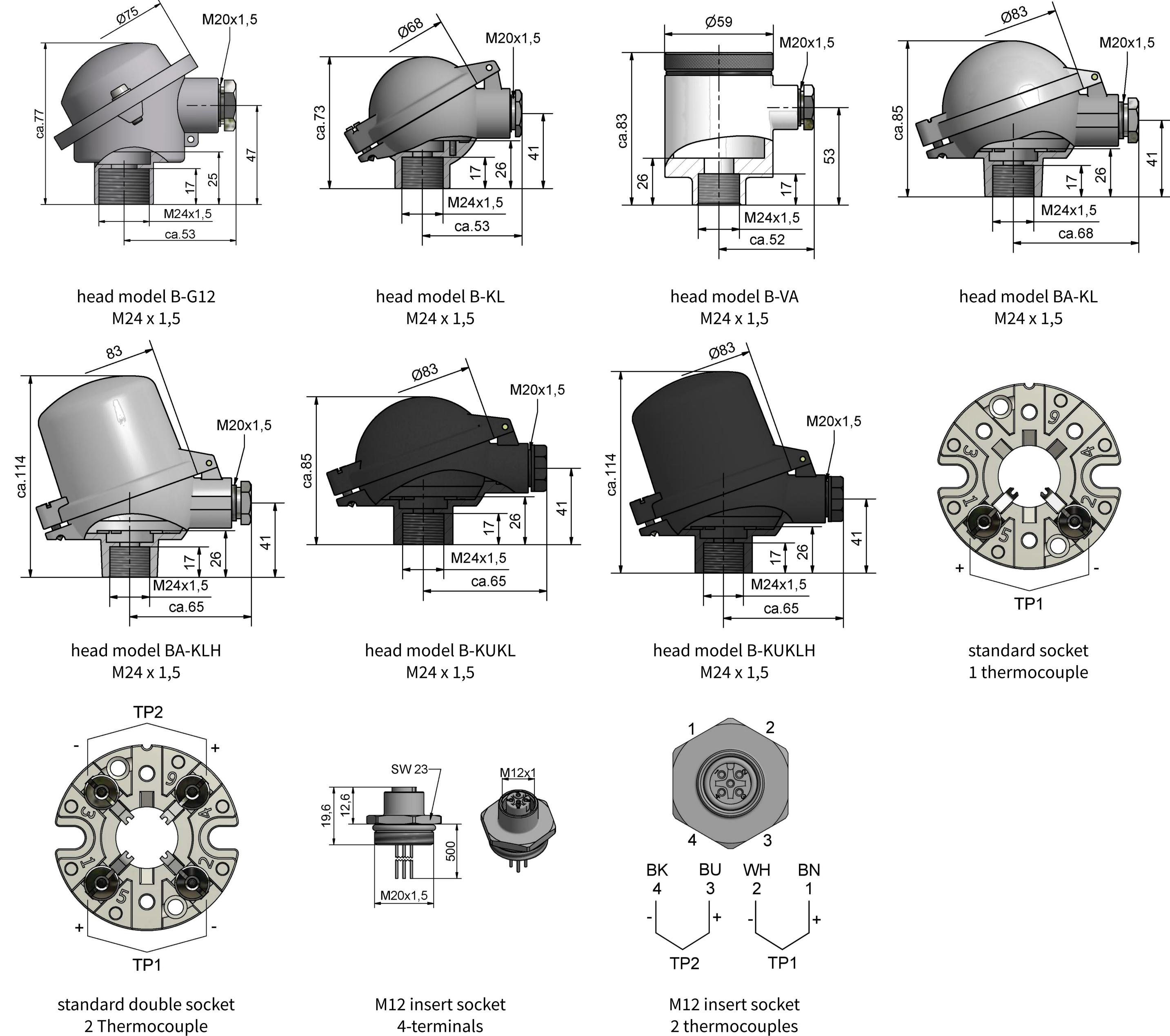
Your partner for temperature



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Optional Connection heads / wiring diagram

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



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R 58[®]

