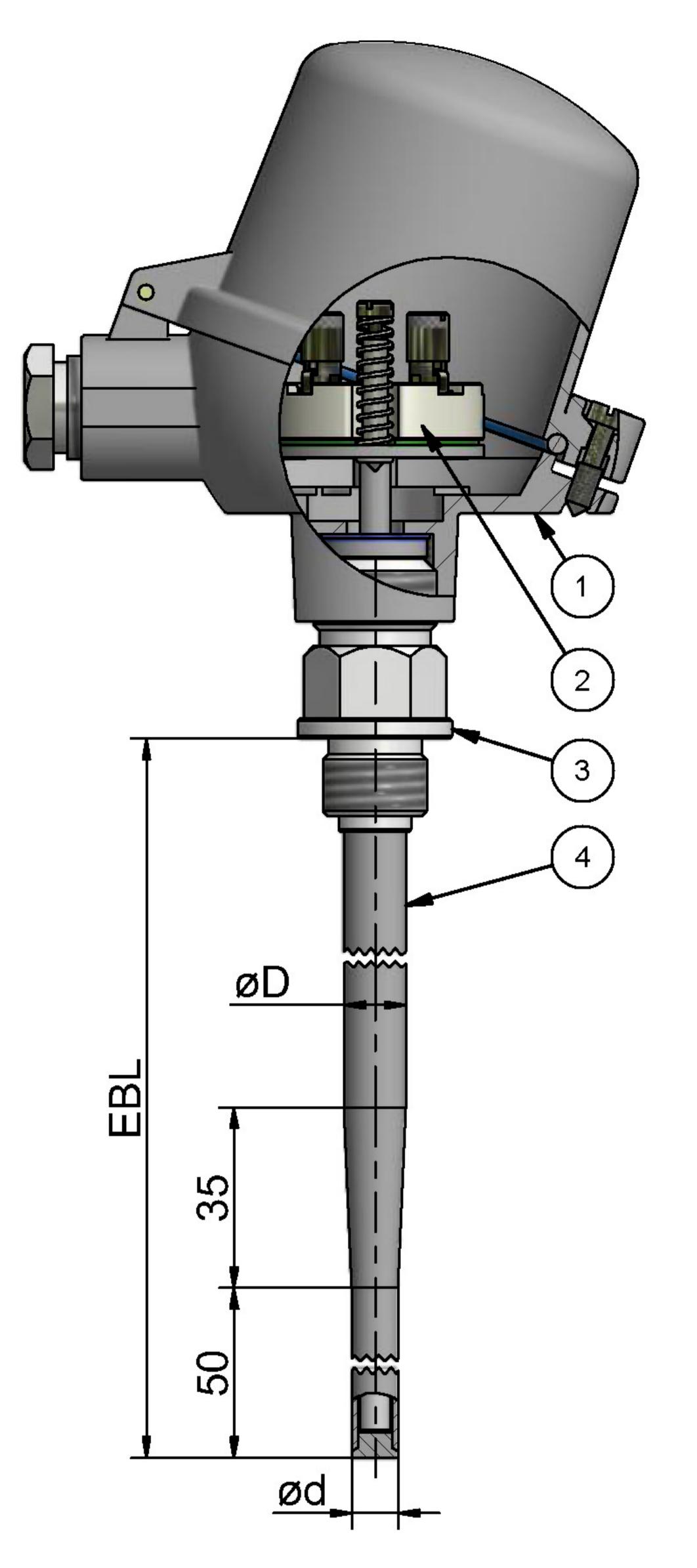
# Ex Mineral Insulated Thermocouple model 3GoH

### for operation in the hazardous area with gas or dust



The temperature sensors manufactured by Reckmann GmbH (R58<sup>®</sup>) are solely intended for the measurement of process temperatures in solid, liquid and gaseous media. This design allows direct screwing into the process connection of a vessel or 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-G.

# **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.1/3) by in the head screwed double nipple, with all common threads. Standard thread G1/2".
- 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:** using only by uncritical processtemperature (< 400 °C), depended on
- the temperature decoupling only by double nipple.
- 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.

fig. 1

• **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.

## ET ECHANNANN MESS + REGELTECHNIK

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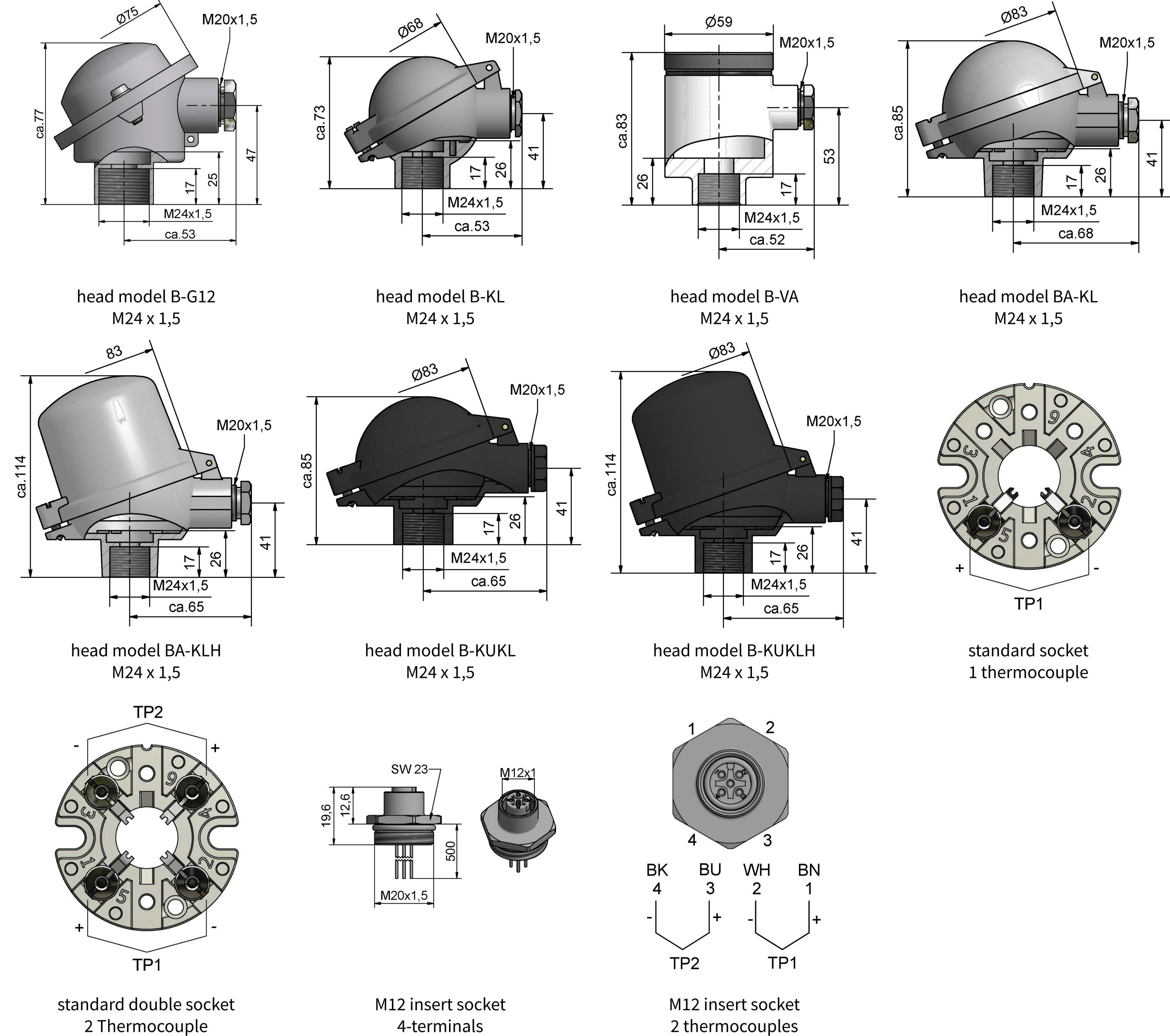
Your partner for temperature

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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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