# Mineral Insulated Thermocouple model 4

## MIT with protection shell model 4 according or similar to DIN 43722





Explosion-proof temperature sensors from Reckmann GmbH (R58®) are used exclusively for measuring process temperatures in solid, liquid or gaseous media. This design enables separate project planning and production of system parts and sensor technology. By supplying the welding sleeve (D-sleeve fig. 1/6) in advance, plant components can also be manufactured and pressure tested without a sensor. The temperature sensor is then installed by simply screwing it into the process connection of the welding sleeve.

#### Areas of application:

Autoclaves, machine and plant construction, 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-D0.

### **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.

- Protective fitting (fig. 1/3 to 6) according to or similar to DIN 43772, Standard material: 1.4571.
- **Process connection** is made via Thermowell (fig. 1/6). (D - sleeves): Standard lengths (L and U) 140/65 mm, 200/65 mm and 200/125 mm and 260/125 mm. Standard thread (N) M14x1,5 or M18x1,5. Preferred diameter (F2/F3) 24/12.5 mm.
- 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.

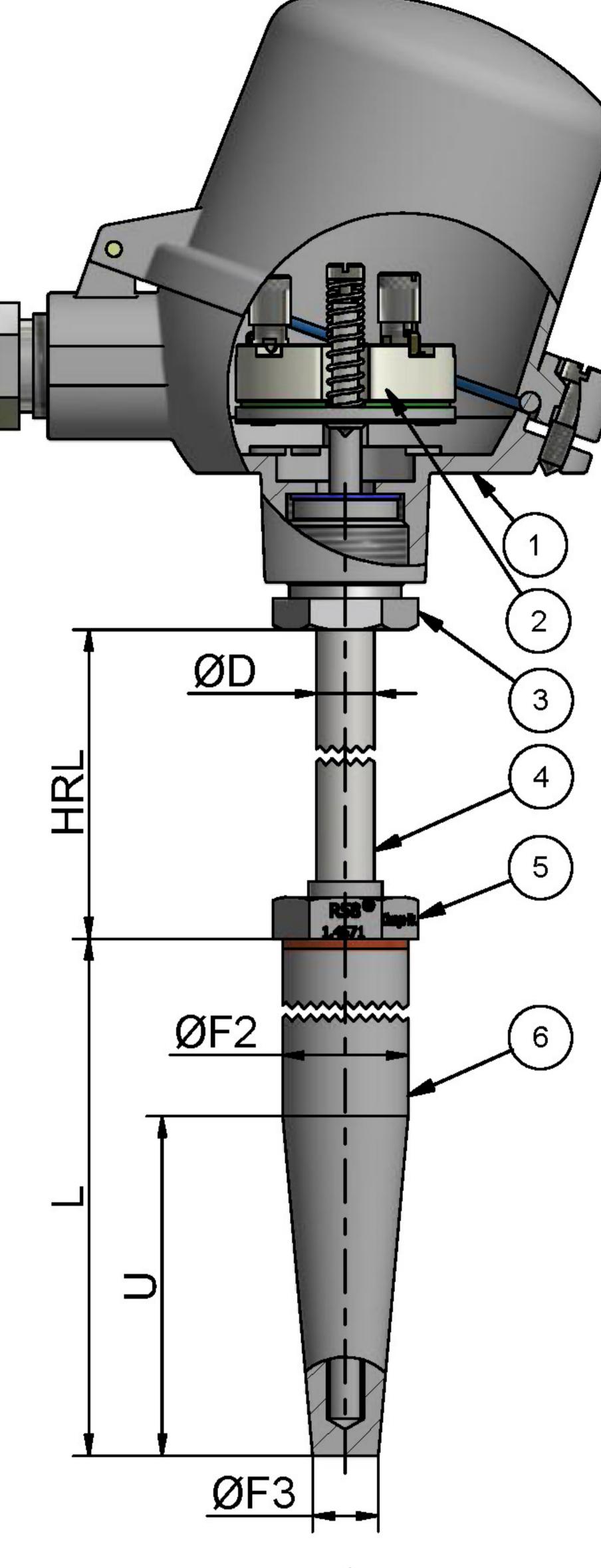
Type J: Ø 3.0 mm up to 520 °C, 6.0 and 8.0 mm up to 720 °C.

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.

- Sheath material Design according to IEC / EN 61515. Preferred material 2.4816. Preferred diameter 3 or 6 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.



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## Optional connection heads / connection diagrams

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

