Mineral Insulated Thermocouple model 3

MIT with protection shell model 3 according or similar t DIN 43722

In general

The temperature sensors manufactured by Reckmann GmbH (R58®) are solely intended for the measurement of process temperatures in solid, liquid and gaseous media. By using a movable gas tight screw socket or a compression fitting, this design allows a variable installation length. The tapering reduces the response time.

Application area:

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

For installation-specific data, see installation instructions Type code 1R9-C0.

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 fitting** (fig. 1/3 to 4) according to or similar to DIN 43772. Standard material 1.4571. Standard - D/d: 12 tapered to 9 mm.
- Process connection via sliding threaded sleeve or compression fitting. 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 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.



