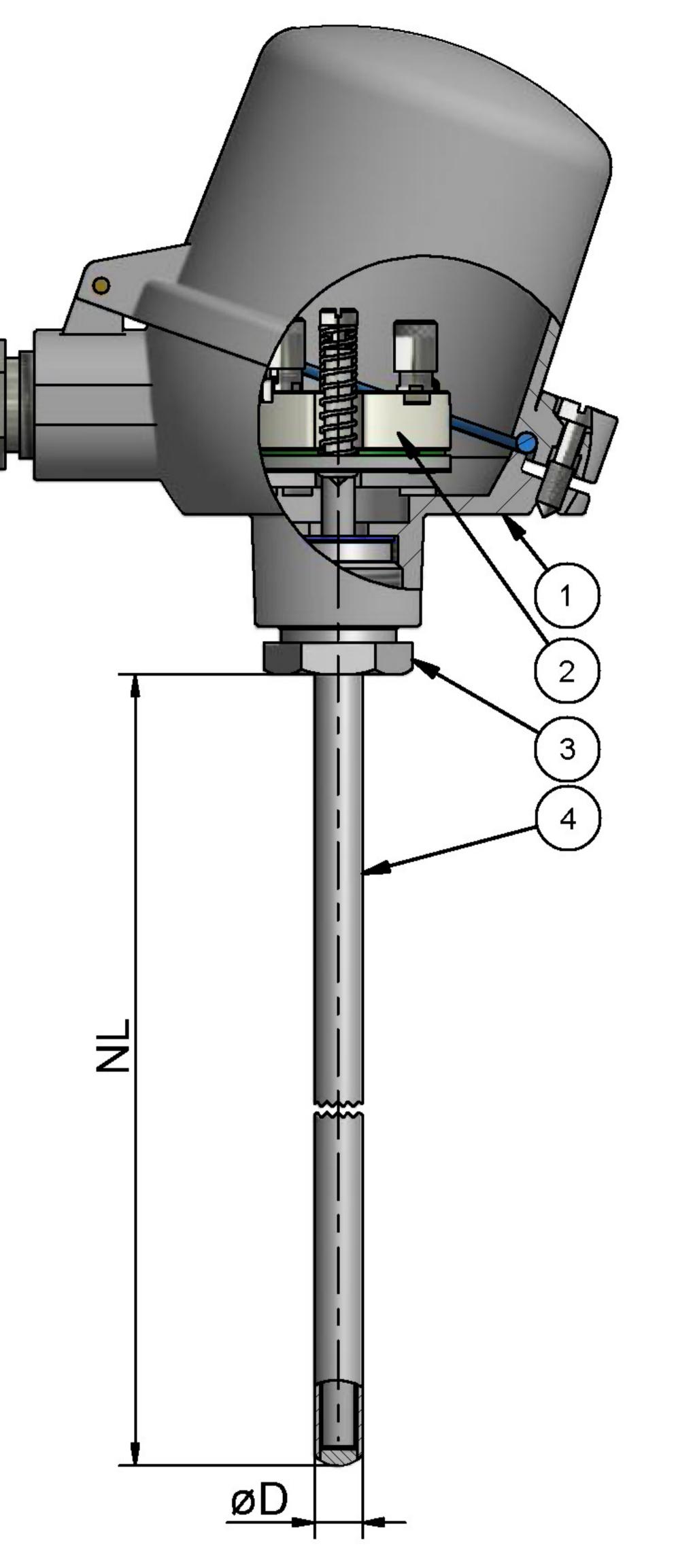
Ex-Resistance Temperature Detector WR15 model 2

for gas explosion hazardous areas and areas with combustible dust



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.

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: WR15-B.

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 diameter 9 or 11 mm
- **Process connection** via movable gas tight screw socket or compression fitting, standard thread: G1/2".
- **Measuring insert** (fig.1/2) replaceable according or similar to DIN 43735. Sensor depending on use:
- thin film or ceramic according to IEC / EN 60751,
- standard in 1 x 3-, 1 x 4-, 2 x 3-, or 2 x 4 wire ciruit.
- Recommended operating temperature on the measuring tip depended on
- Tolerance class according to IEC / EN 60751
- 40°C up to + 500°C by thin film sensors,
- 40°C up to + 600°C by ceramic sensors.
- 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 1.4404,
 - Standard diameter 3 or 6 mm.

Notice: Sensors with Ø 3 mm and more than 4 inner conductors, Ø < 3 mm, Ø > 3 mm and more than 6 inner conductors are considered to be non-insulated or grounded in accordance with IEC / EN 60079-11 (dielectric strength) and must be connected to equipotential bonding of the system throughout the intrinsically safe circuit for safety reasons, taking into account the special conditions according

fig. 1

- to IEC / EN 60079-14.
- **Protection shell** (fig. 1/3 up to 4) the following demension are acceptable:
- outer diameter(D) ≥ 6,0 mm, wall thickness(S) ≥ 1,0 mm, base thickness ≥ 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.

RECKMANN MESS + REGELTECHNIK

RECKMANN GMBH

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Your partner for temperature

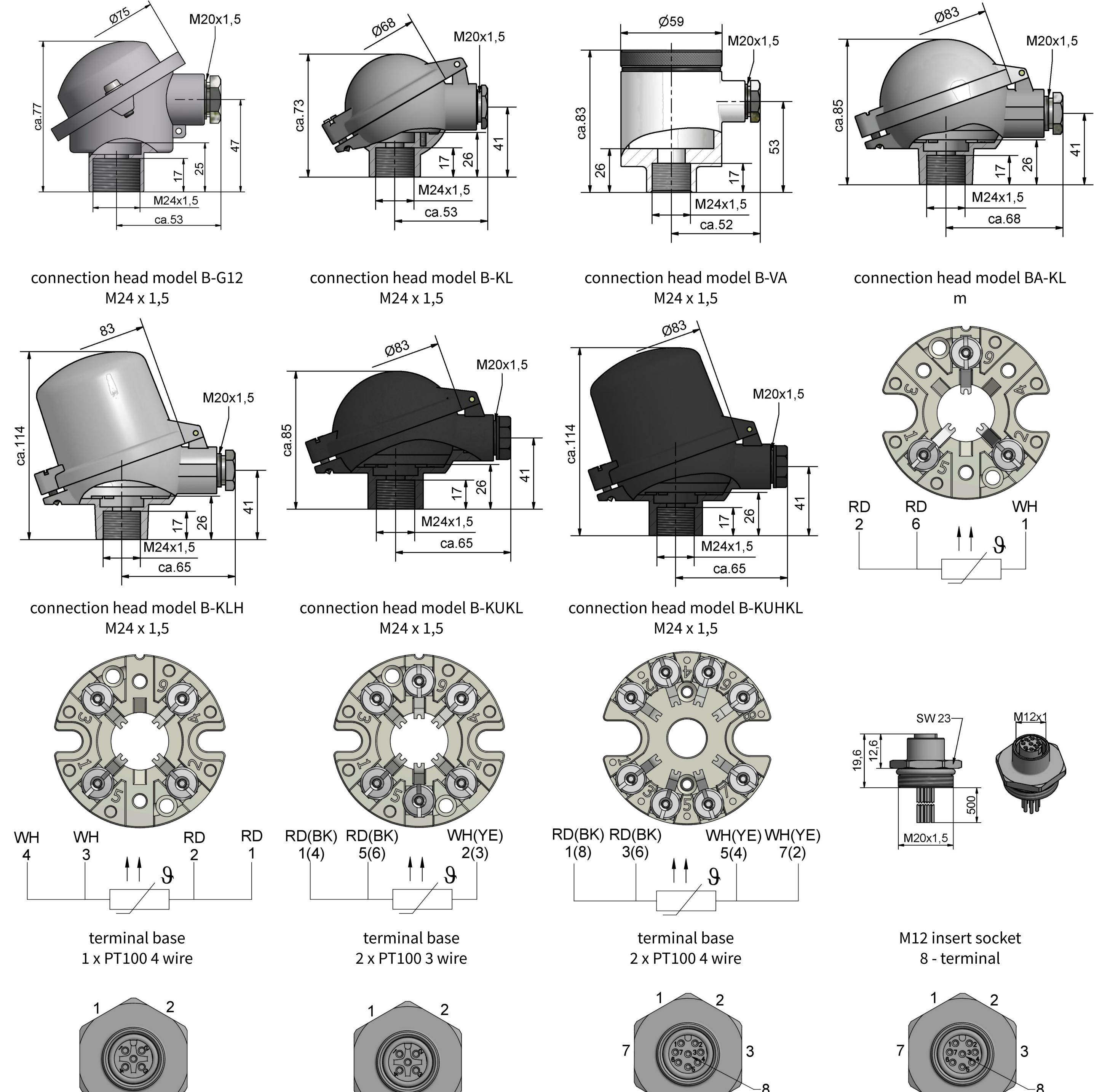
www.reckmann.de

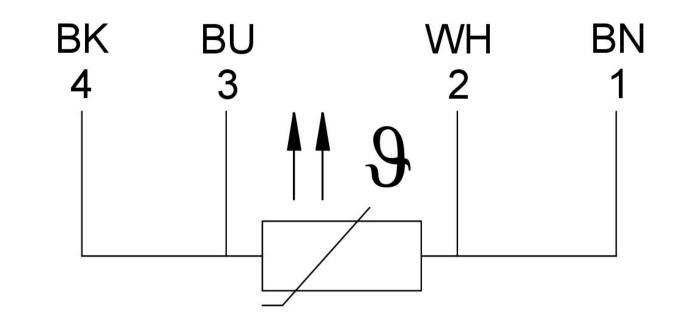
R 58®

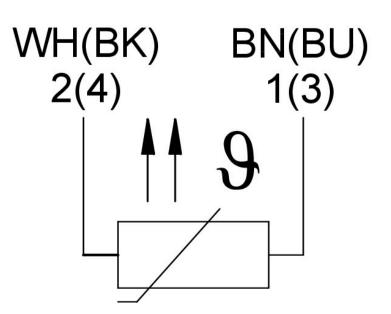
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Optional connecting heads / circuit diagram

Alternative to the cable gland a M12 insert plug is possible.







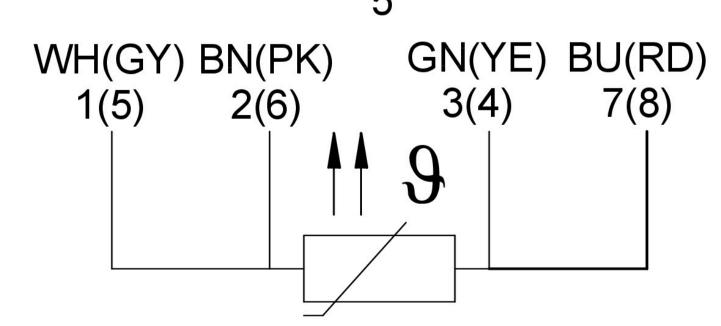
M12 insert socket 1 x PT100 4 wire

M12 insert socket 2 x PT100 2 wire

GN(YE) WH(GY) BN(PK) 3(4) 2(6) 1(5) θ

J

6



M12 insert socket 2xPT100 3-wire

M12 insert socket 2 x PT100 4 wire

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