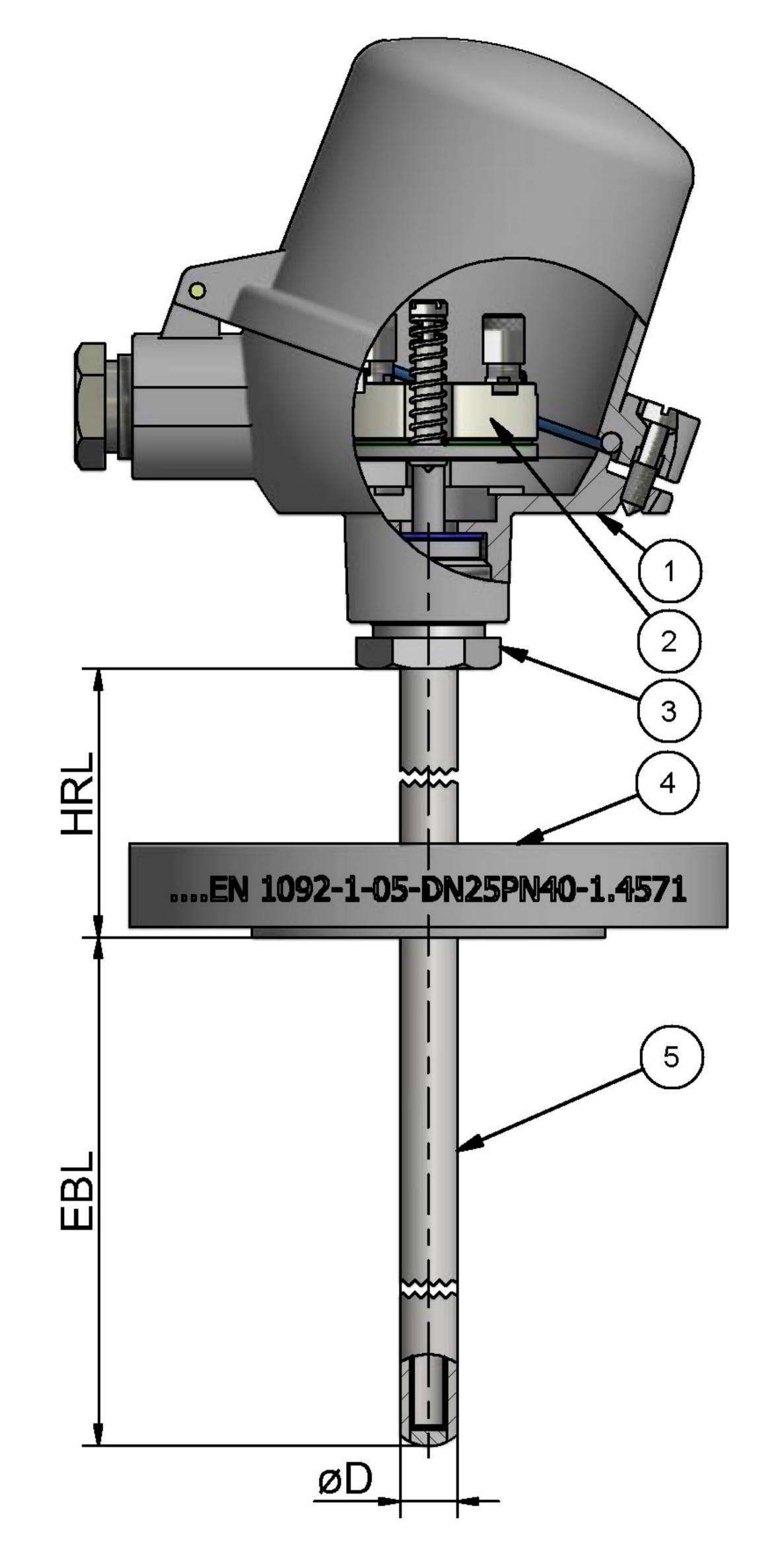
Ex-Resistance Temperature Detector WR15 model 2F

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. This design allows a direct flanging to the weld-neck-flange of a process vessel or a pipeline

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. Stock-number-code: WR15-E.

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. Dimension see page 2.
- **Protection shell** (fig. 1/3 up to 5) according or similar to DIN 43772. Standard material 1.4571.
- Standard diameter 9 or 11 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 / DN50 PN40 model B1.
- **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, 2 x 4 wire circuit
 - Recommended operating temperature on the measuring tip depended on accuracy 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 to IEC / EN 60079-14.

fig. 1

- Protection shell (fig. 1/3 up to 5) the following demension are acceptable: outer diameter(D) ≥ 6,0 mm, wall thickness(S) ≥ 1,0 mm, ground hight ≥ 1,3 x S [mm]. neck tube length (HLR) max. 2000 mm.
- fitting length (EBL) max. 6000 mm.
- Optional materials for gas and dust explosion protection: see ex operating instructions chapter 4 X-Conditions .

RECKMANN MESS + REGELTECHNIK

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Your partner for temperature

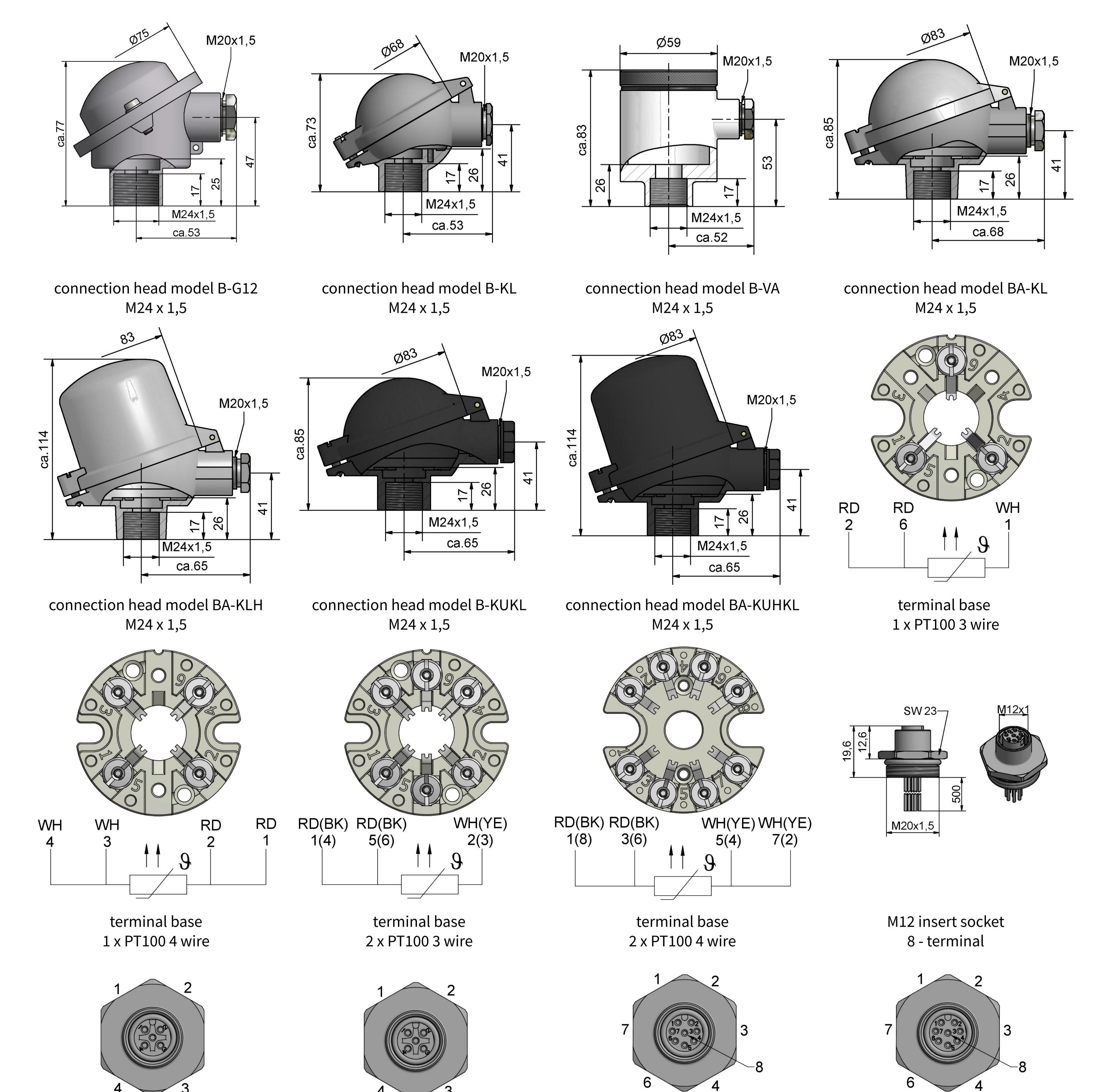
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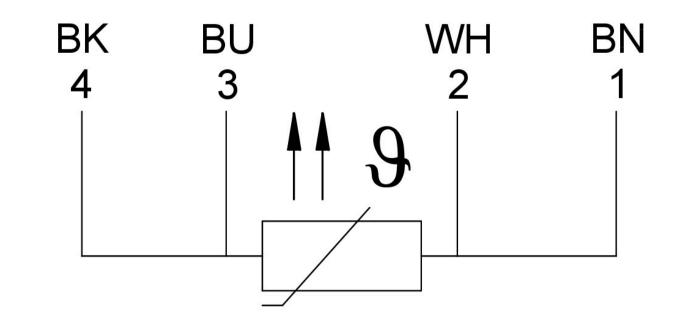
R 58®

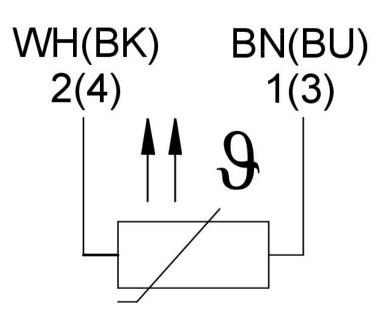


Optional connecting heads / circuit diagram

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

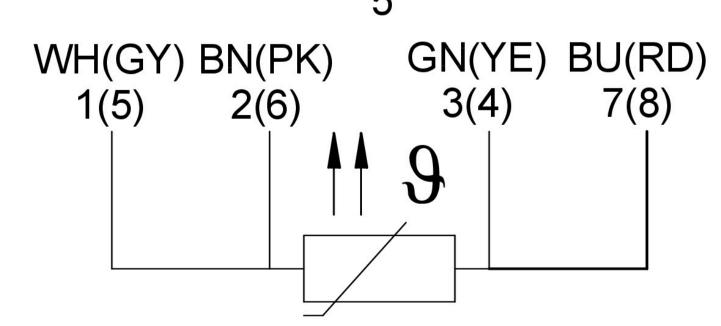






M12 insert socket 1 x PT100 4 wire M12 insert socket 2 x PT100 2 wire WH(GY) BN(PK) GN(YE) 1(5) 2(6) 3(4)

J



M12 insert socket 2 x PT100 3 wire M12 insert socket 2xPT100 4-wire

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