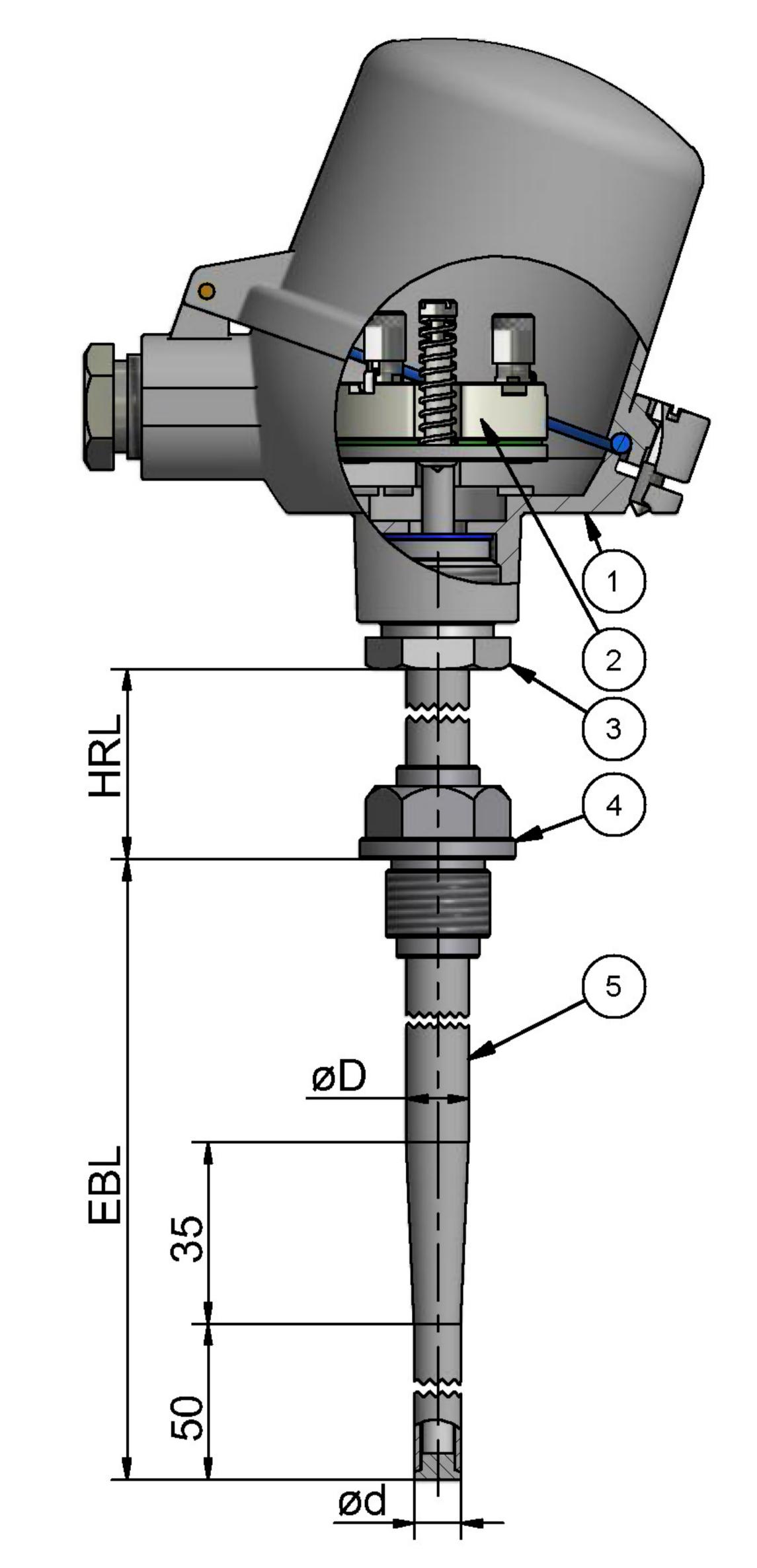
Ex-Resistance Temperature Detector WR15 model 3G

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 screwing into the process connection of a container or a pipeline. The Namur-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. Ambient temperature at the connection point max. -40 °C up to +100 °C For installation please see our operating instructions. Stock-number-code: WR15-H.

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- D/d: 12 tapered (according to Namur) to 9 mm

- **Process connection** (fig. 1/4) above welded screwed plug with all standard threads. 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- oder 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, $\emptyset < 3$ mm, $\emptyset > 3$ 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) \geq 6,0 mm, wall thickness(S) \geq 1,0 mm, ground hight \geq 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:

please see ex operation instructions chapter 4 X-Conditions.

MESS + REGELTECHNIK

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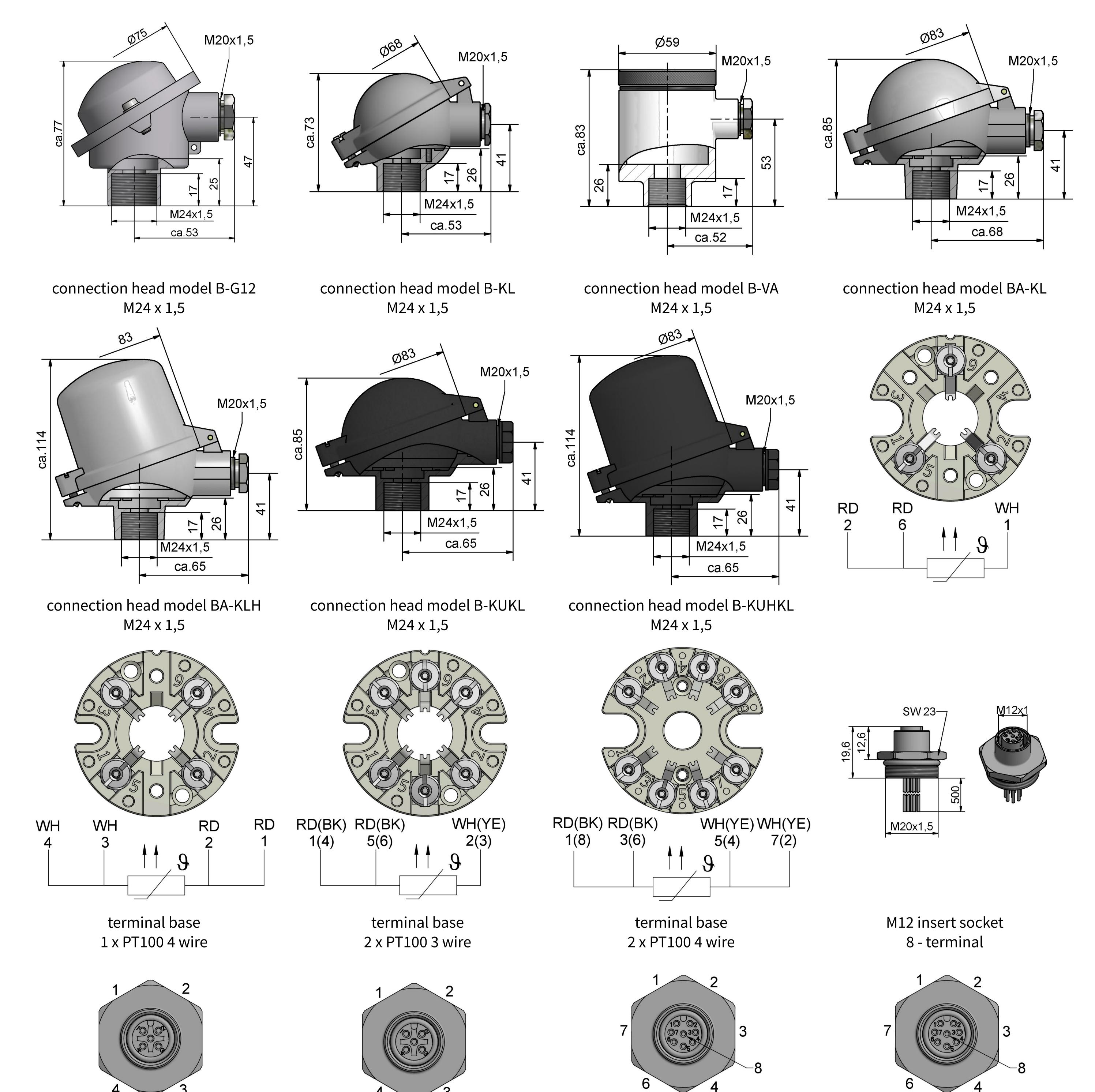
Your partner for temperature

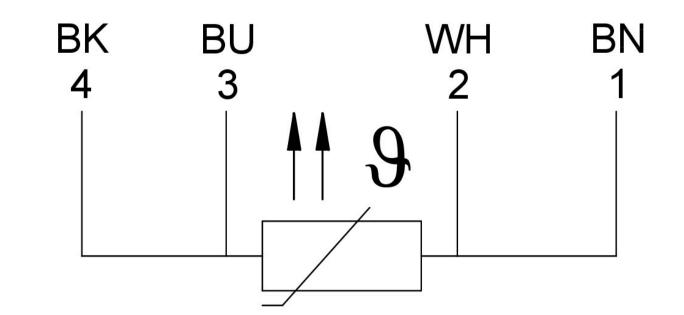
R 58[®]

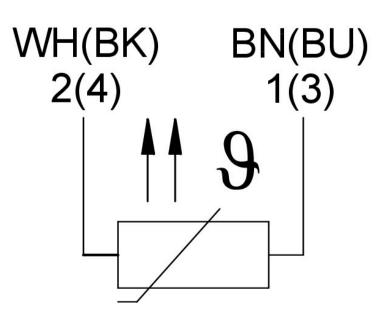


Optional connecting heads / circuit diagram

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

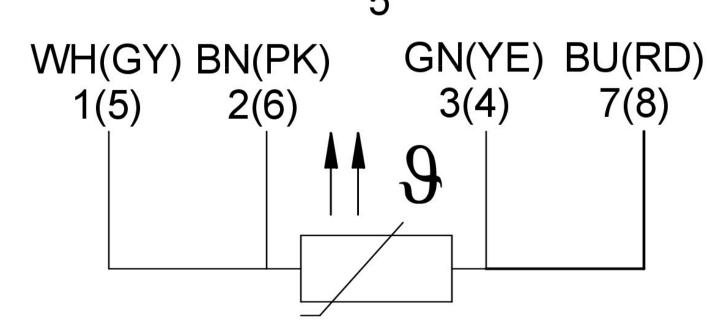






M12 insert socket 1 x PT100 4 wire M12 insert socket 2 x PT100 2 wire WH(GY) BN(PK) GN(YE) 1(5) 2(6) 3(4)

J



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

RECKMANN MESS + REGELTECHNIK

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