

# Resistance Temperature Detector model 3

## RTD with protection tube model 3 according or similar to DIN 43772

### 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:

Autoclave, machine and plant engineering, chemicals and food industry, power plant technology, industry of building materials, recycling air conditioning technology.

**For installation please see our operating instructions for resistance temperature detectors (RTD).**

**Stock-number-code: 1R15-C0.**

### 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.  
**on request:** possible with appropriate cable connection and silicon seal similar IP 67
- **Protective 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 screw socket or compression fitting, standard thread: G1/2".
- **Measuring insert** (fig.1/2) replaceable according 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  
**Operating temperature PT100**  
- 50°C up to + 500°C for thin film sensors,  
- 200°C up to + 600°C for ceramic sensors,  
- 200°C up to + 450°C for glass sensors.  
**Sheath material** according to IEC / EN 61515.  
Standard material 1.4404,  
Standard diameter 3 or 6 mm.

- **Optional** on request other materials, diameter or with transmitter

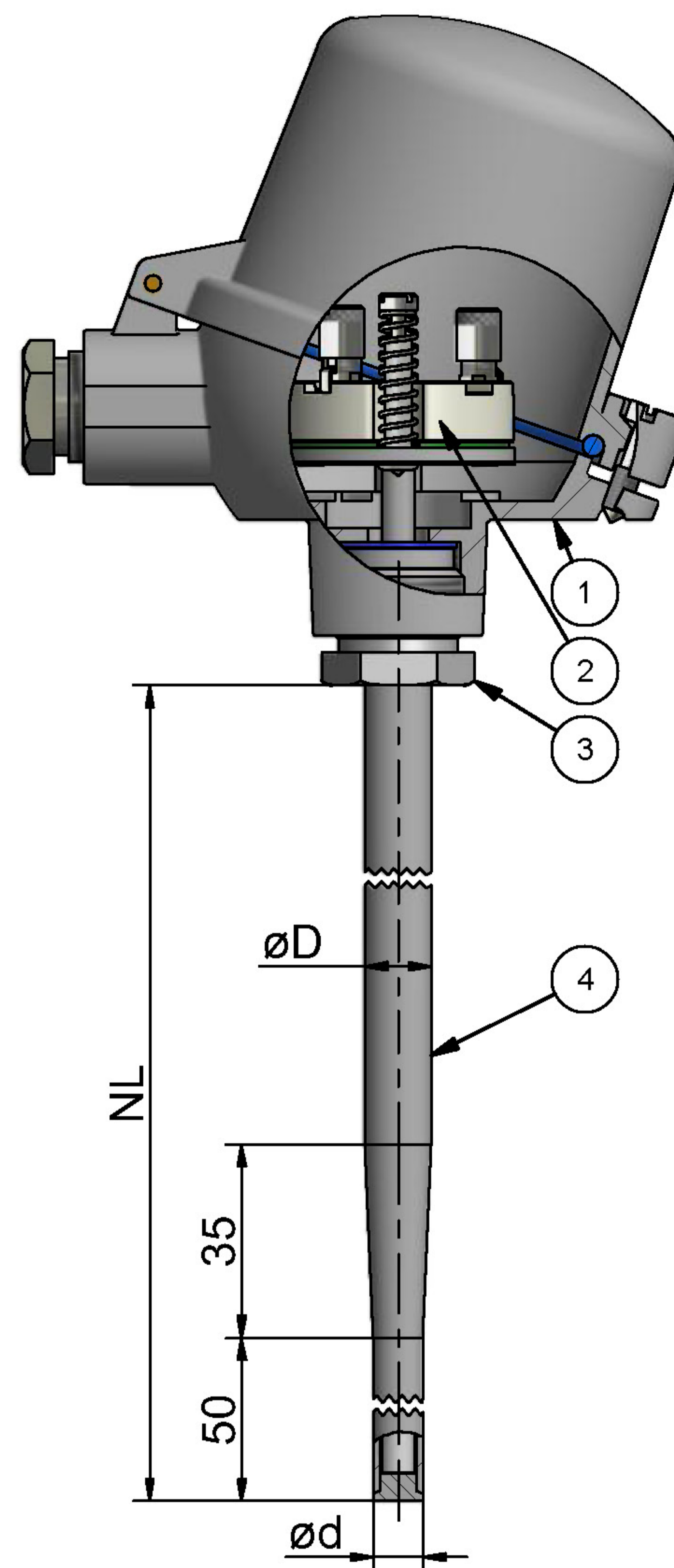
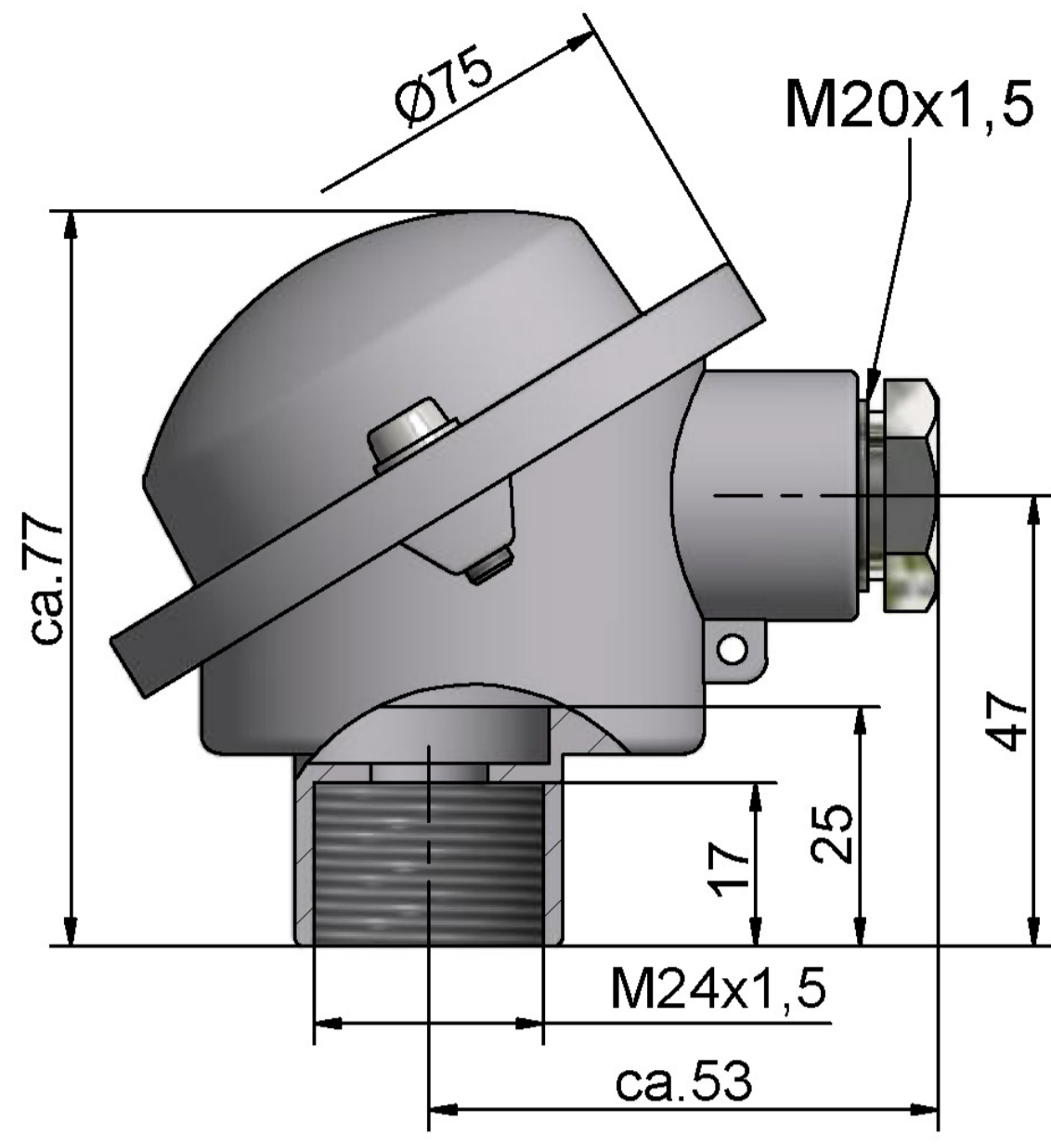


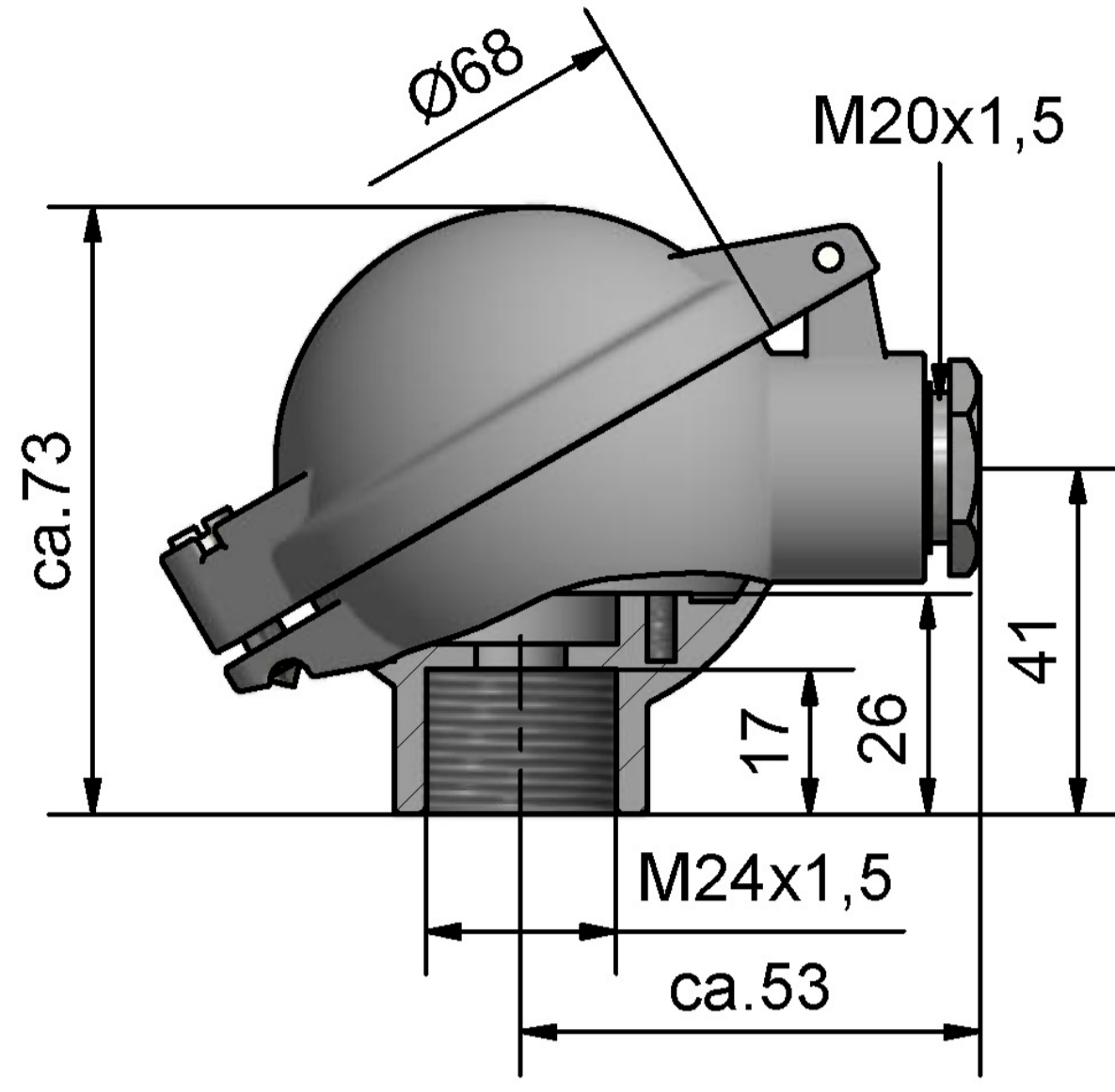
fig. 1

# Optional connecting heads / circuit diagram

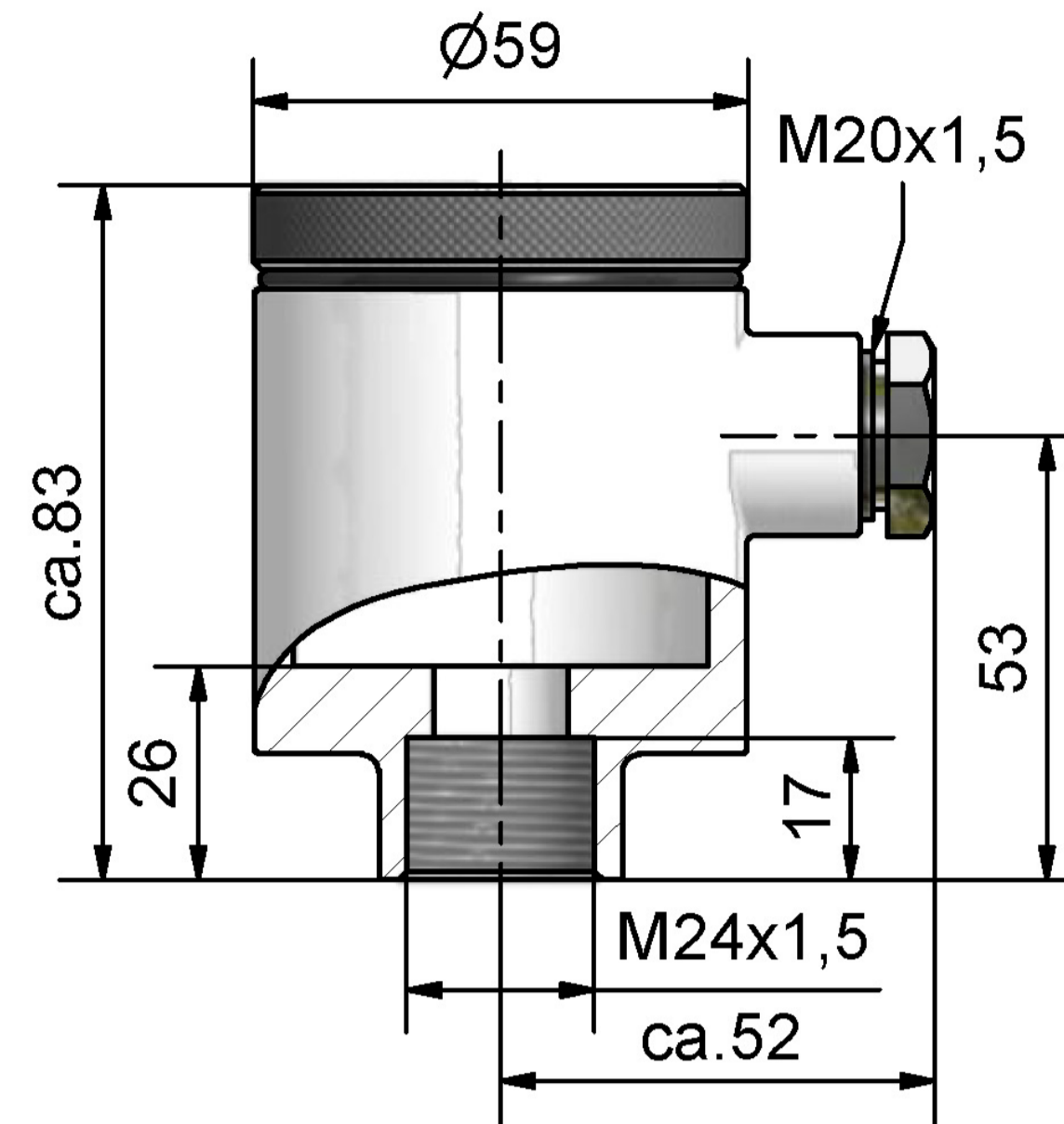
Alternative to the cable gland a M12 insert plug connector is possible.



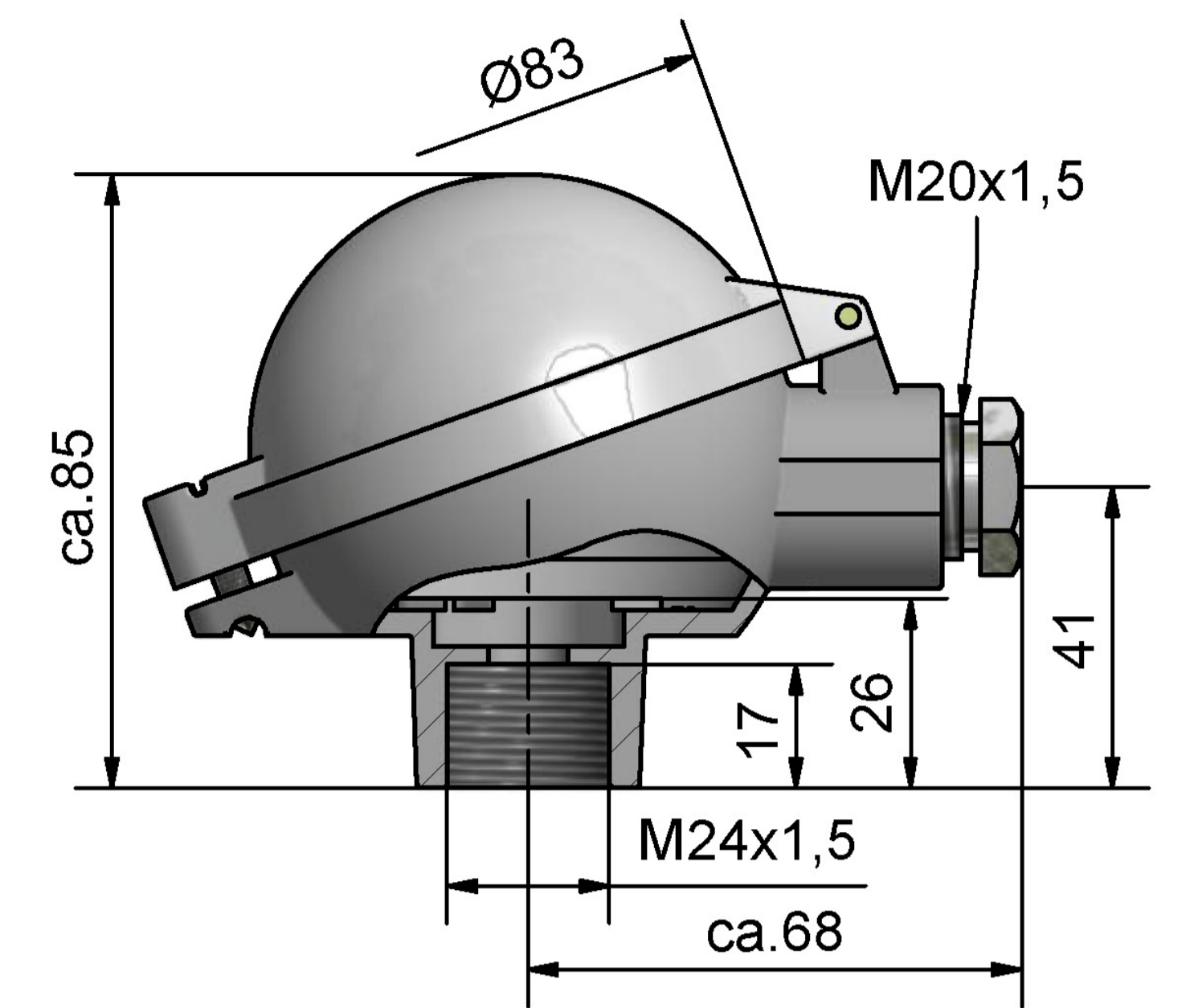
connection head model B-G12  
M24 x 1,5



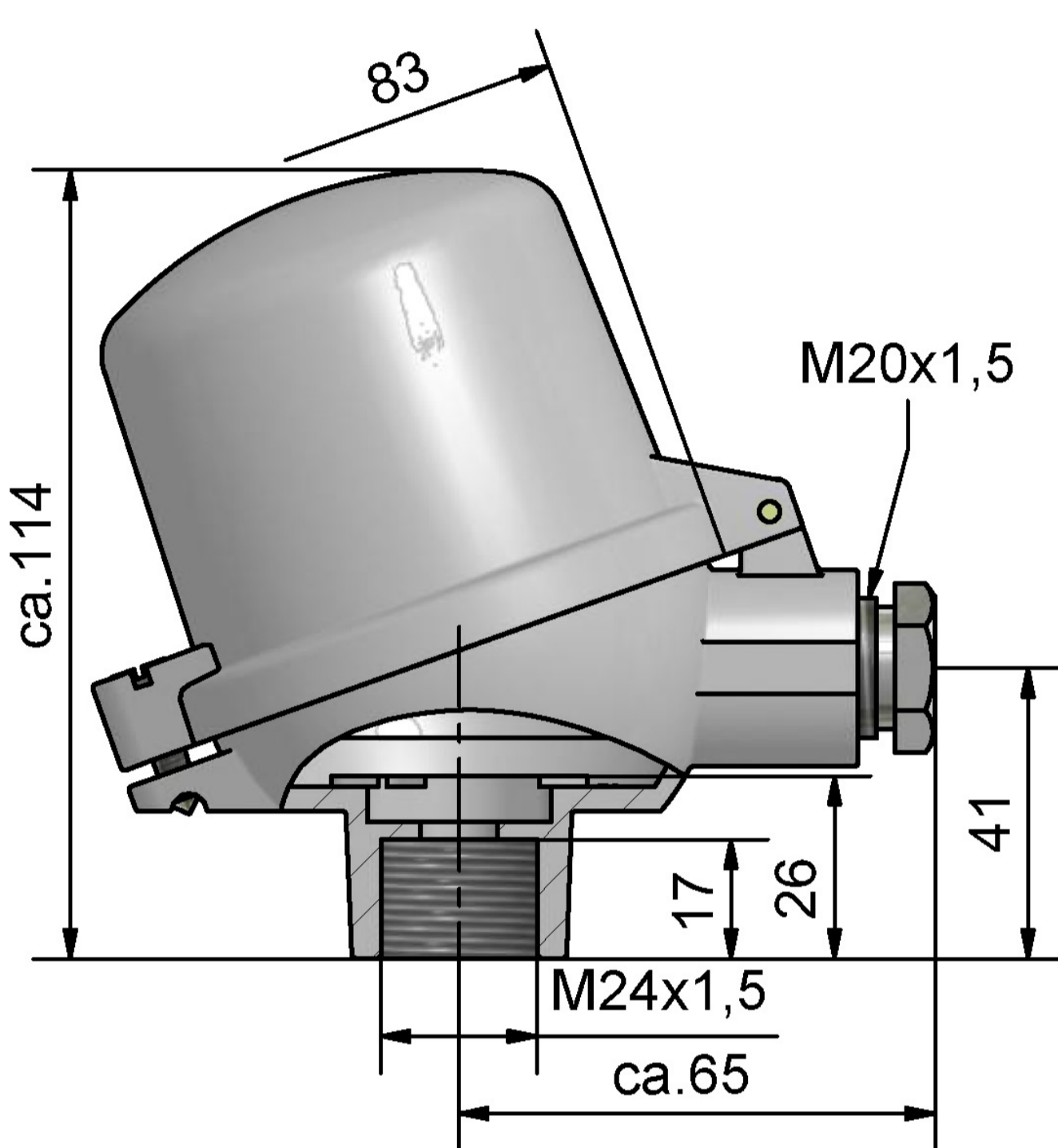
connection head model B-KL  
M24 x 1,5



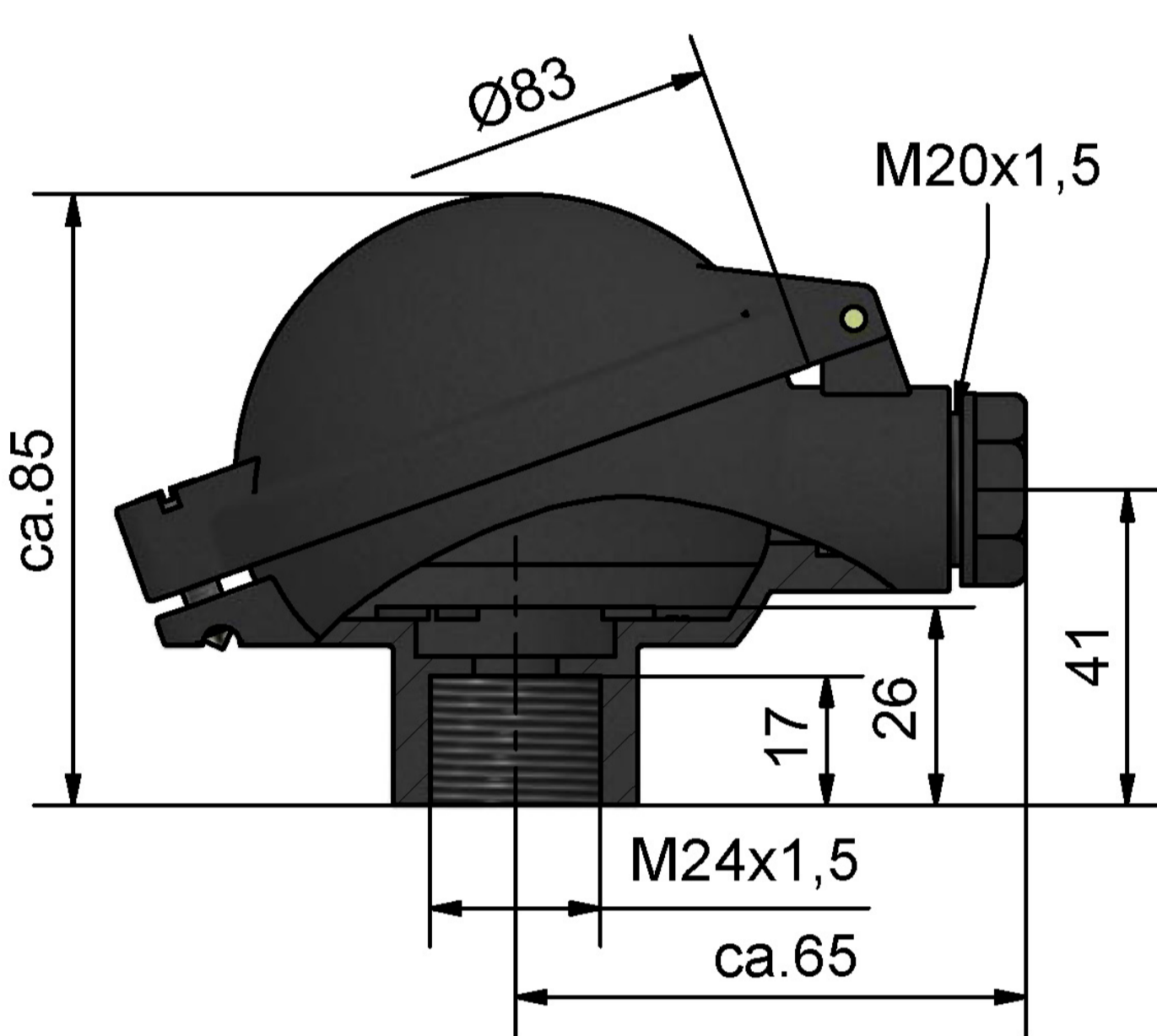
connection head model B-VA  
M24 x 1,5



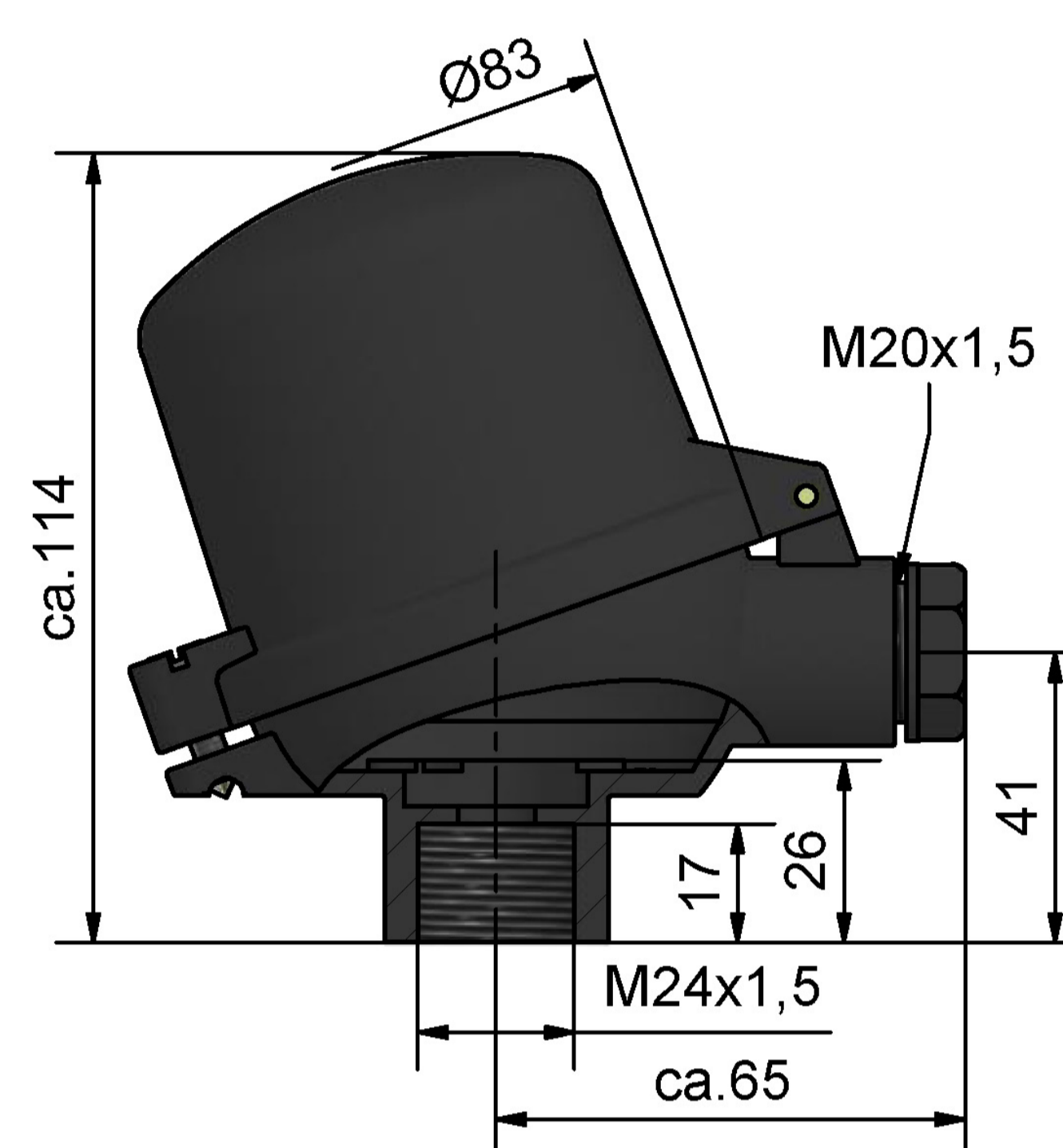
connection head model BA-KL  
M24 x 1,5



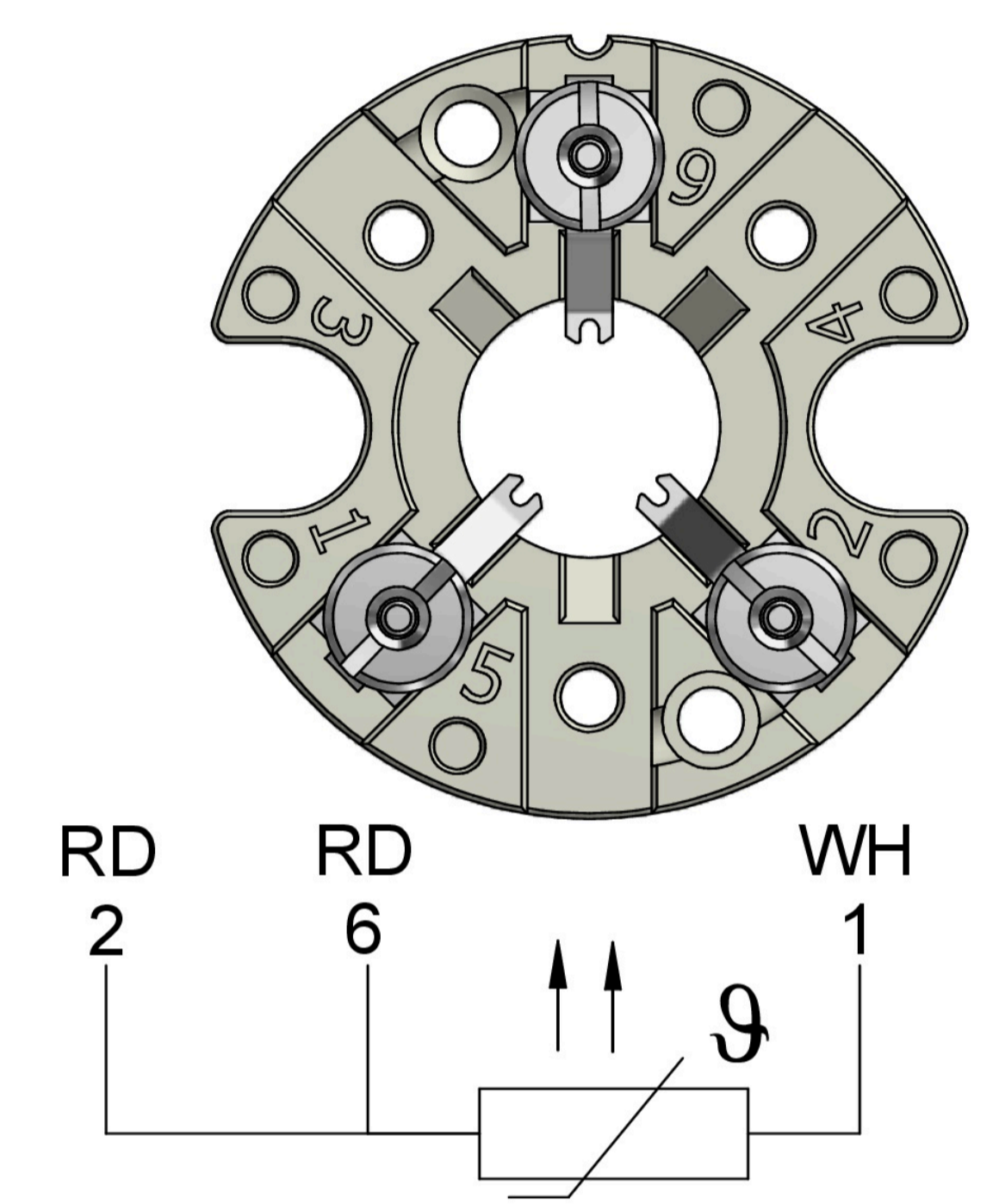
connection head model BA-KLH  
M24 x 1,5



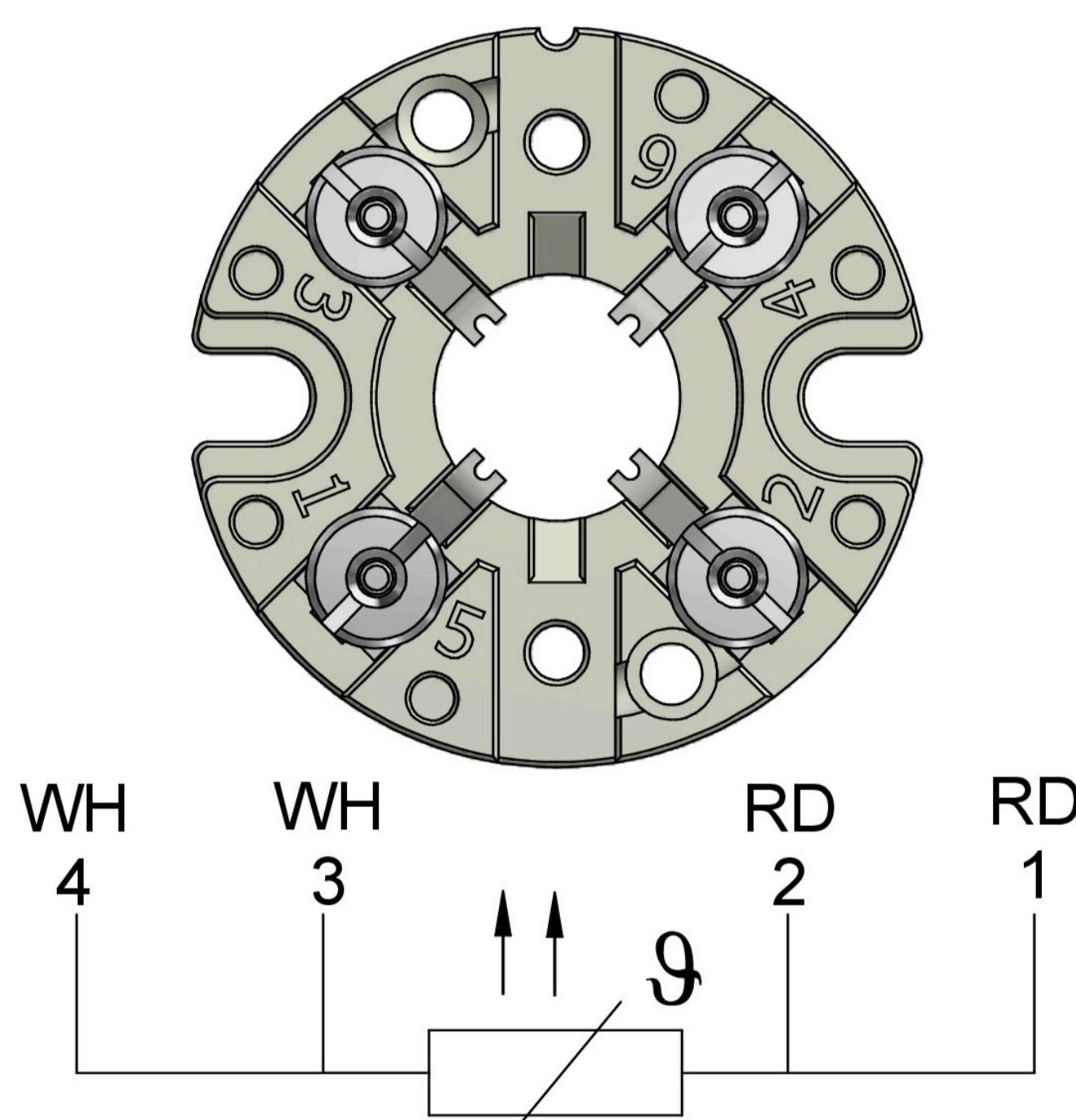
connection head model B-KUKL  
M24 x 1,5



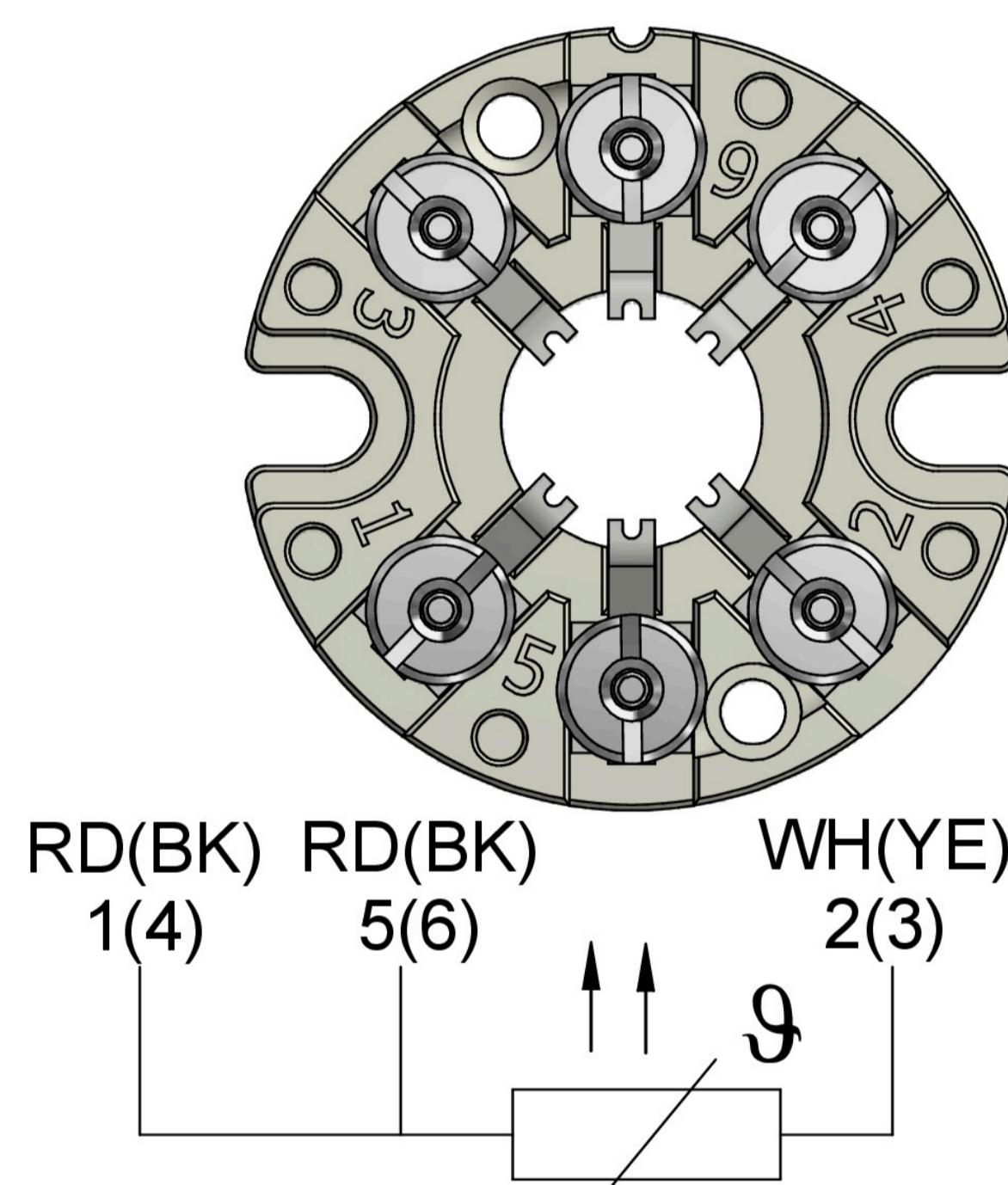
connection head model B-KUKHL  
M24 x 1,5



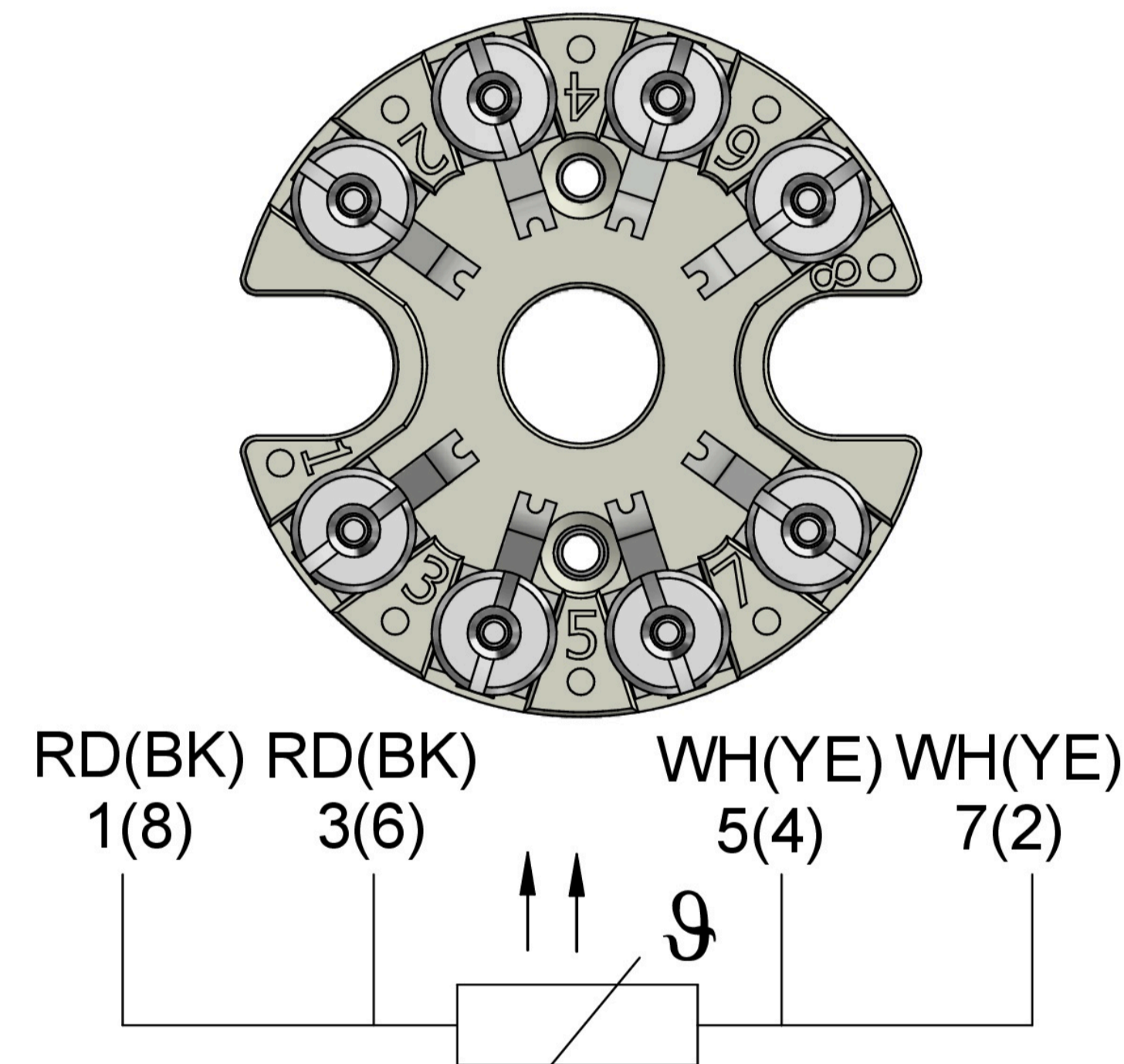
terminal base model B  
1 x PT100 3 wire



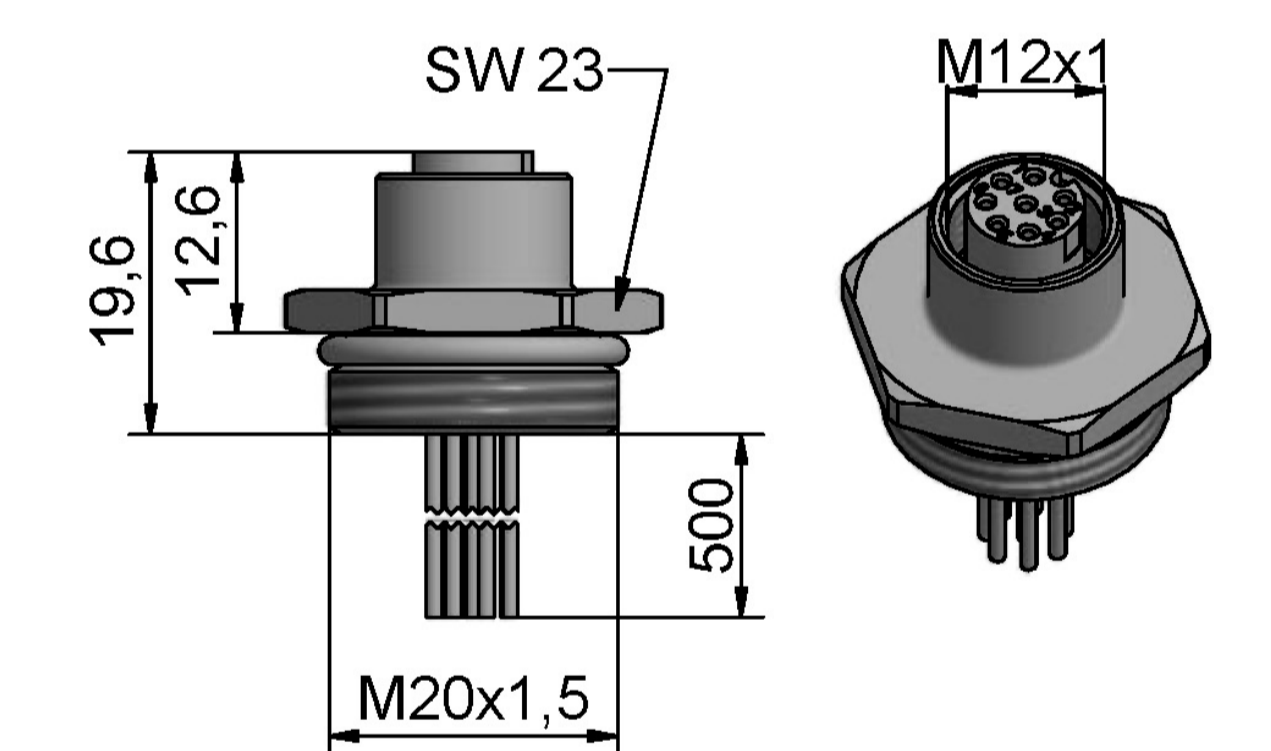
terminal base model B  
1 x PT100 4 wire



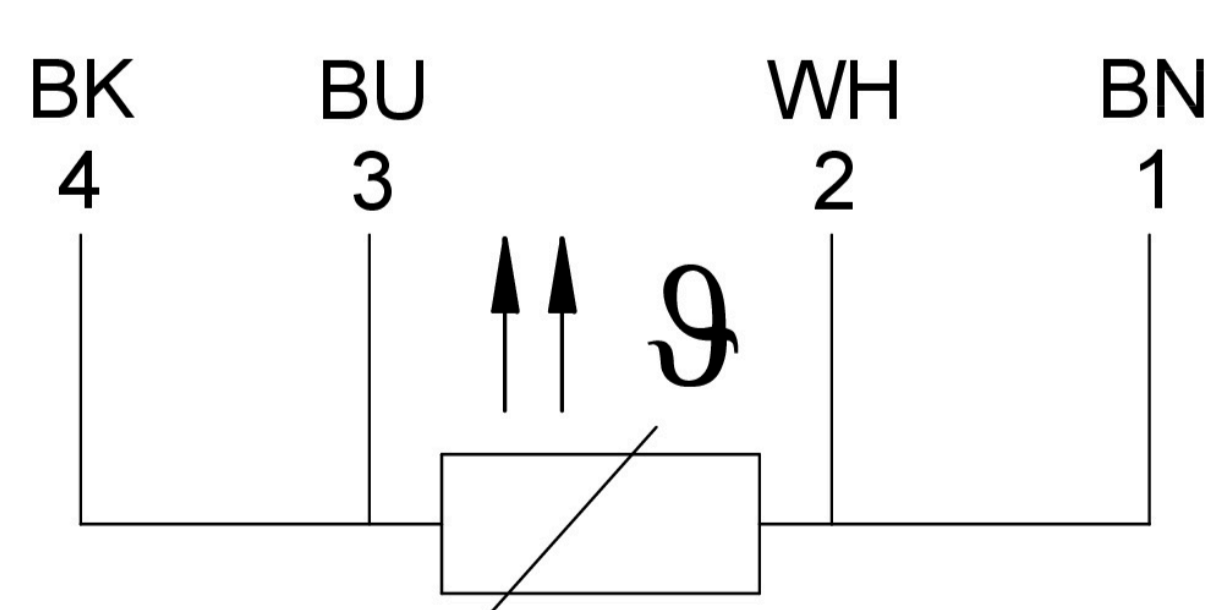
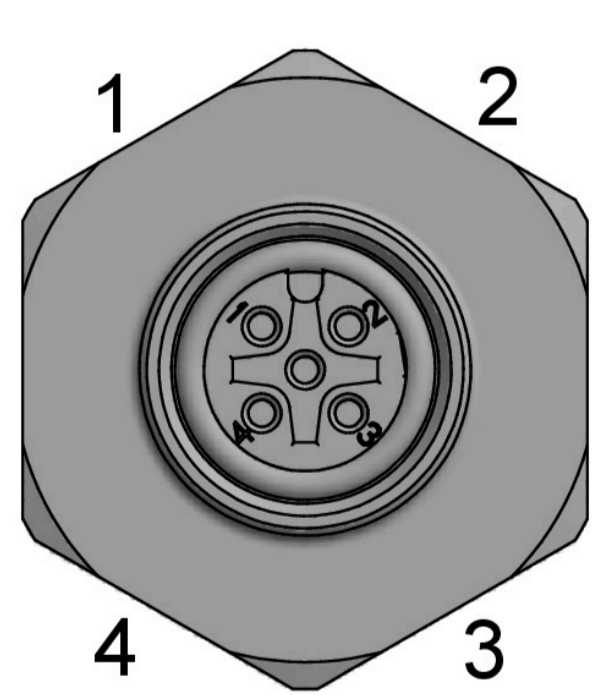
terminal base model B  
2 x PT100 3 wire



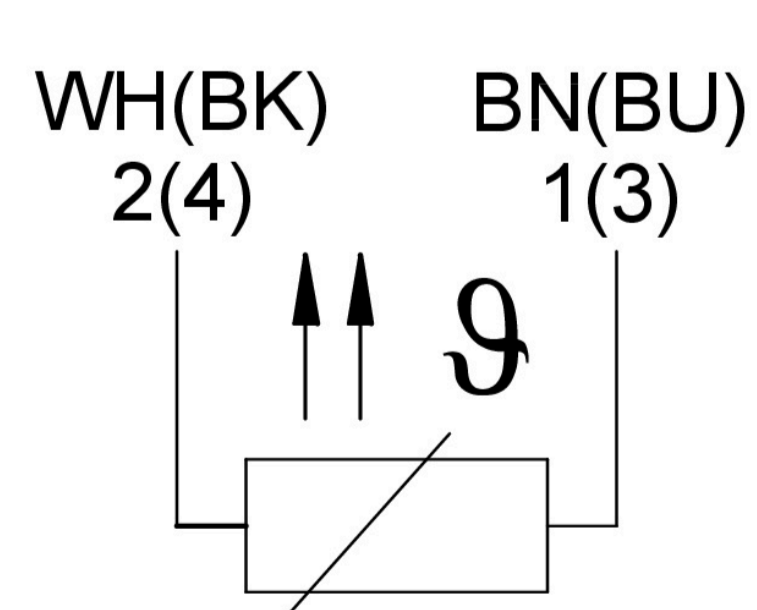
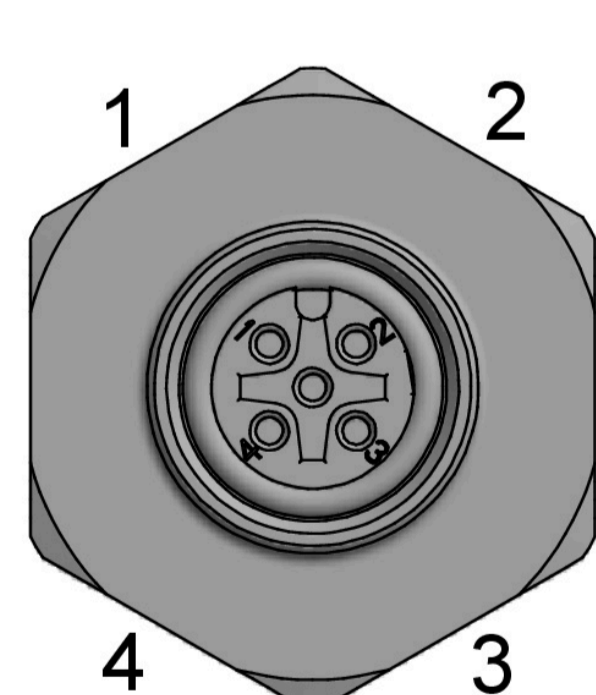
terminal base model B  
2xPT100 4-wire



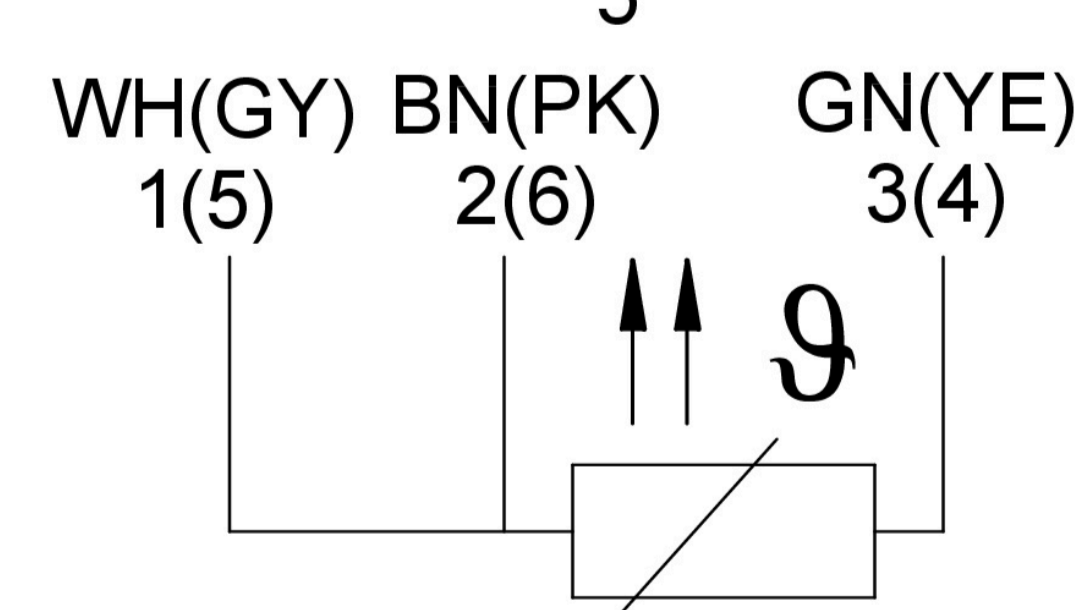
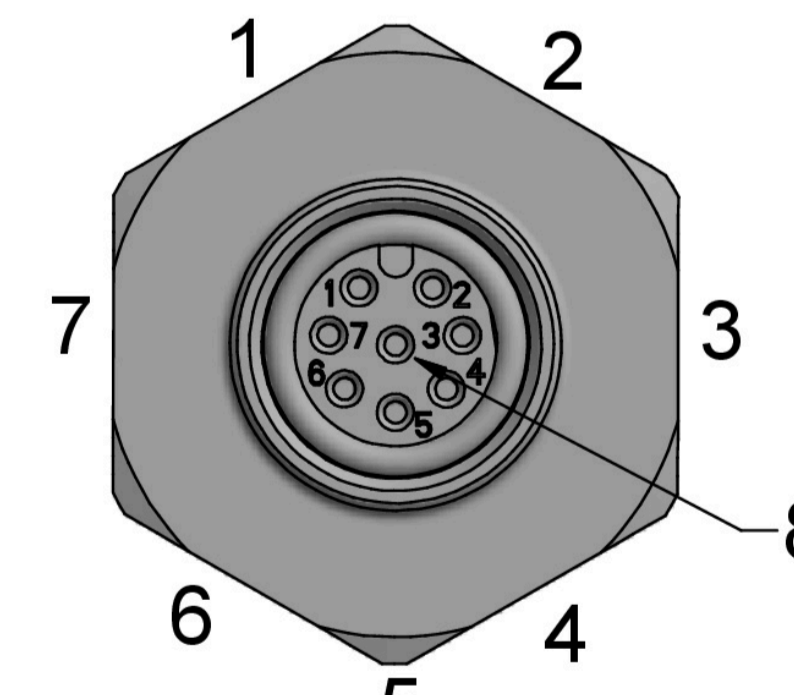
M12 insert socket  
8 - terminal



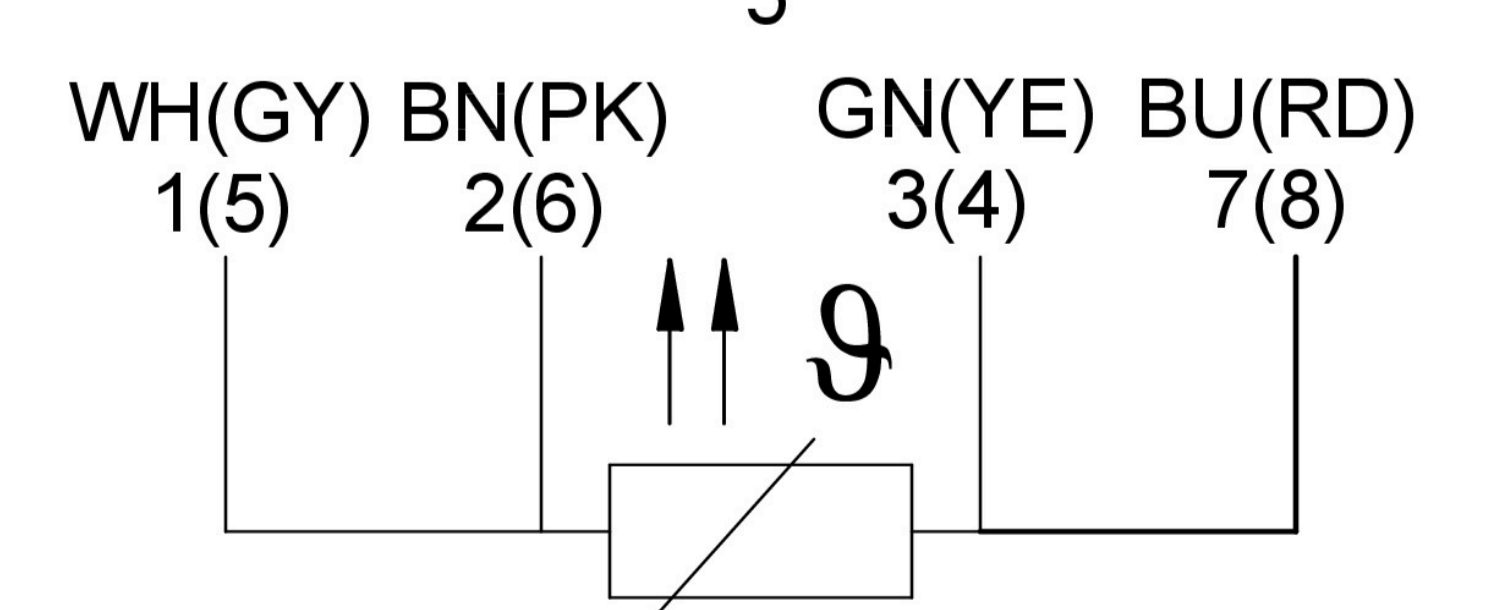
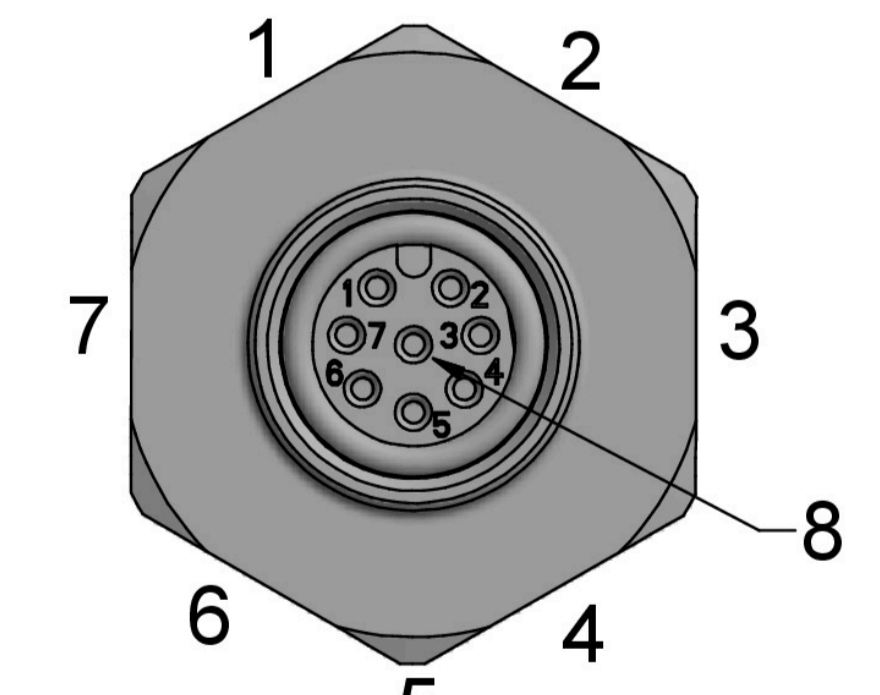
M12 insert socket  
1xPT100 4 wire



M12 insert socket  
2xPT100 2 wire



M12 insert socket  
2xPT100 3-wire



M12 insert socket  
2xPT100 4-wire