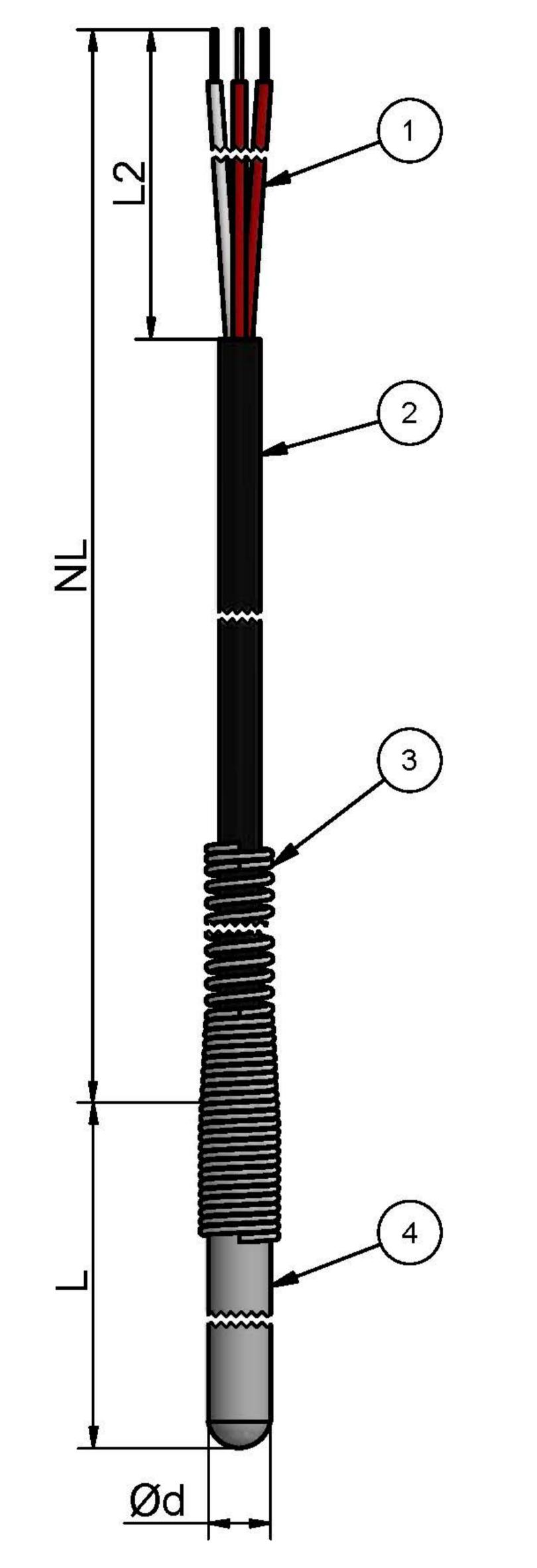
Ex-Resistance Temperature Detector cable sensor RKW 8

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 cable sensor are especially for measuring of a surface temeperature.

Application area: Uncritical process contiotions at machine and plant engineering, power plant technology, pipeline construction, chemicals industry, beverage industry.



Depended on electrical and thermal parameters for operating with the following types of protection: II 1G Ex ia IIC T1...T6 Ga oder II 1D Ex ia IIIC T135 °C Da. Ambient temperature at the connection point max. -40 °C up to +100 °C **For installation please see operating instructions Stock-number-code: RKW-8**.

Technical datas

• **Measuring insert** (fig.1/2-4) cable and sensor are directyl connected, isolated and mounted in the sensor tube.

• **Sensor** depending on use:

thin film or ceramic according to IEC / EN 60751, in 1 x 2-, 1 x 3- , 1 x 4- , 2 x 2- , 2 x 3- oder 2 x 4 - wire circuit. Recommended operating temperature on the measuring tip - 40 °C up to + 180 °C.

Accuracy class according to IEC / EN 60751.

Notice: process- and operating temperature are the same and depended on cable and plug connector. 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.

• Sensor sleeve with antikink spring (fig.1/3-4)

Preference diameter 3, 4 or 6 mm, Standard material 1.4571.

• **Temperature range** of the cable (fig.1/2) static installed:

PVC isolated up to 80 °C, silicone isolated up to 180 °C, FEP isolated up to 205 °C, PFA with VA shield up to 250°C, PTFE isolated up to 260 °C, Gls with VA shield up to 350 °C.

fig. 1

• **Temperature range** of the plug connector(fig.1/1):

Compensation plug connector(type B) -40 °C up to 200 °C, Lemo -40 °C up to 200 °C and M12 / M8 -40 °C up to 85 °C.

RECKMANN MESS + REGELTECHNIK

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Your partner for temperature

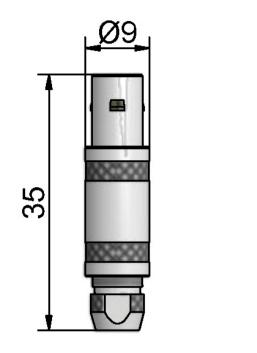
www.reckmann.de

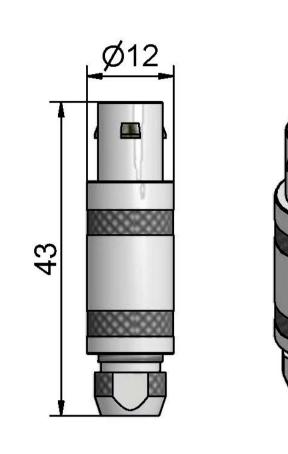
R 58[®]

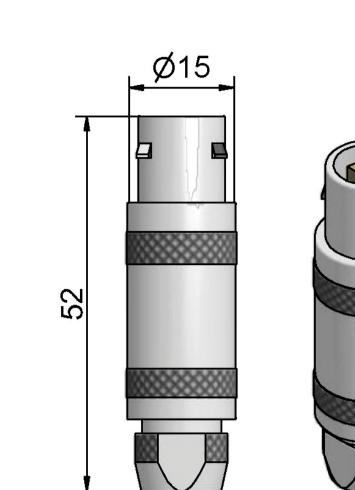
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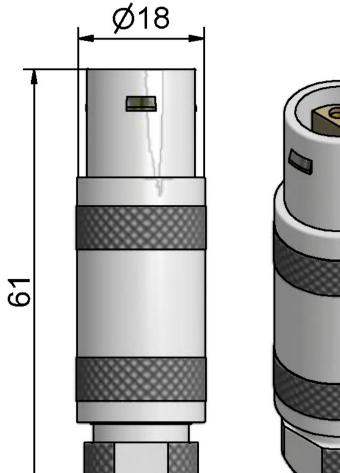
Optional plug connector

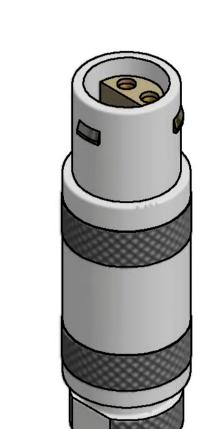
Examples of plug connectors with connection sheme:



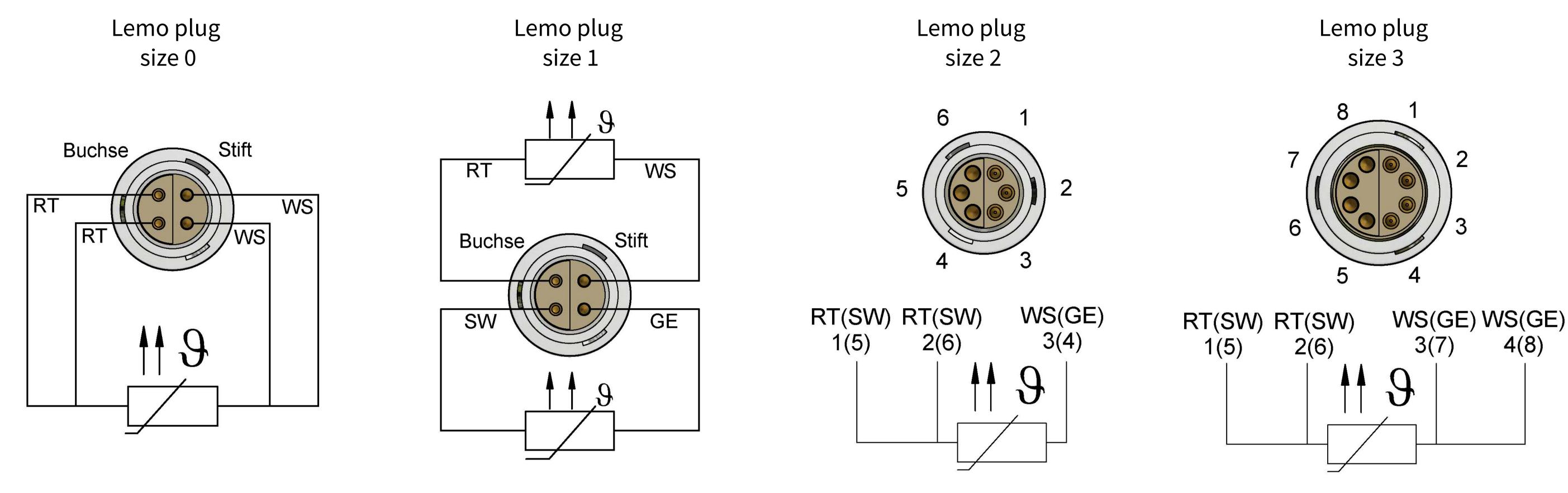








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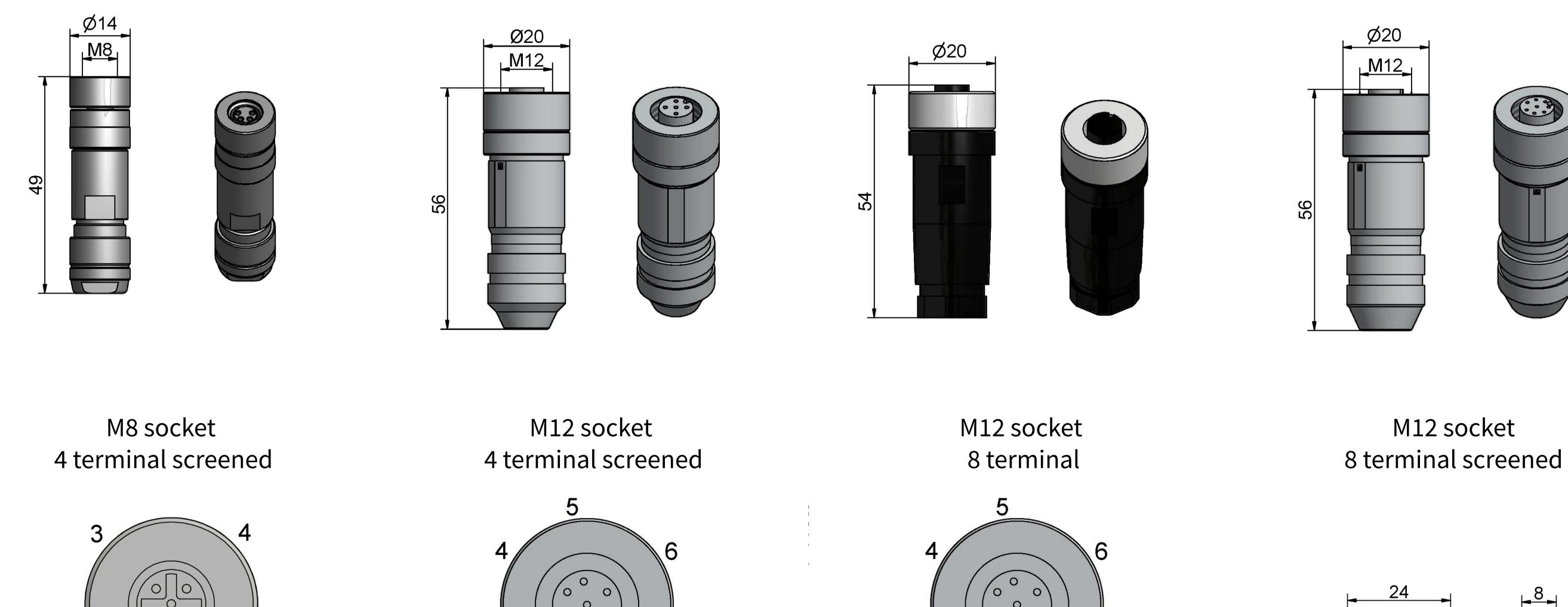


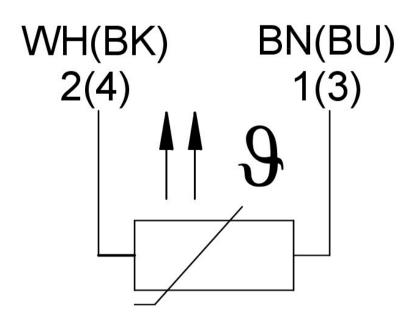
Lemo plug 1 x 4 wire front view

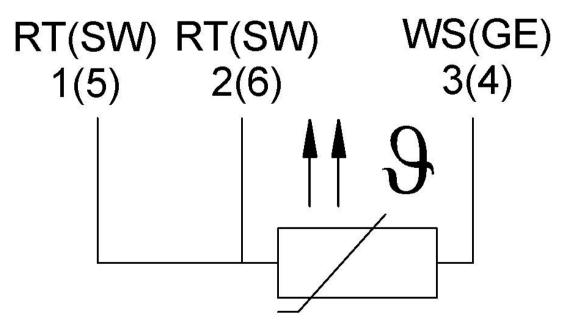
Lemo plug 2 x 2 wire front view

Lemo plug 2 x 3 wire front view

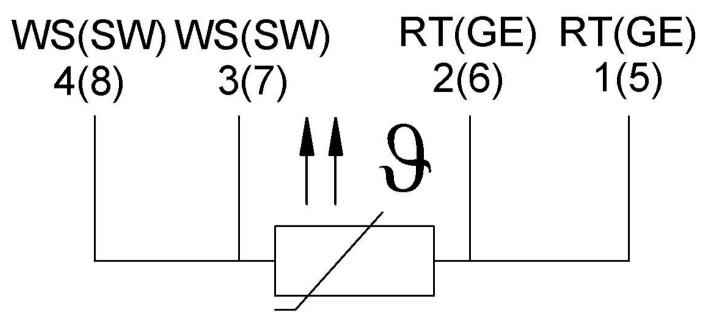
Lemo plug 2 x 4 wire front view



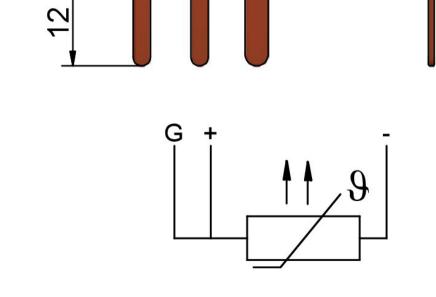




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M12 socket 2 x 2 wire front view A - code

M12 socket 2 x 3 wire front view A- code

M12 socket 2 x 4 wire front view A- code

Mini plug 3 - terminal type B (copper contacts)

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