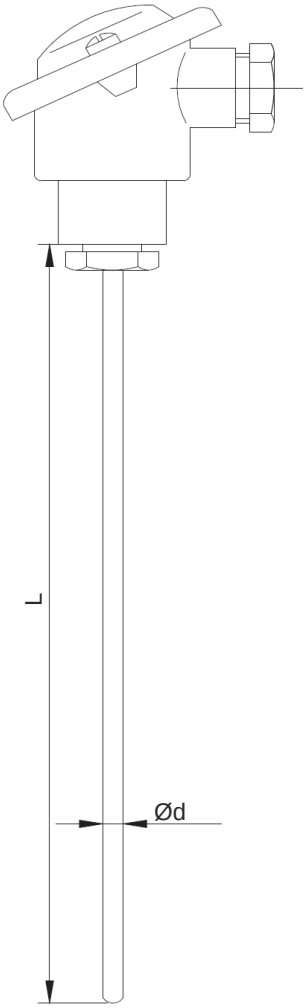
SCR108

- mineral insulated resistance sensor
- connection head
- short response time for temperature change
- small dimensions for operation in hard-to-reach places
- resistance to vibrations and the possibility of bending
- thermowell made of acid-resistant steel

Resistance thermometers SCR108 are made of metal-sheathed cables with internal wires (Cu or Ni). They are insulated from each other, with the outer sheath with magnesium oxide (MgO) powder. It provides the sensor with high vibration resistance, flexibility, as well as temperature resistance, and good electrical insulation. These sensors are designed for direct temperature measuring in places with difficult access. There are also used in every application, where it is required to use flexible and small diameter probe, with high resistance to shock, vibration, and short response time to temperature changes. Due to tight pressing of the insulating layer (MgO) and the appropriate structure of the inner wires and the sheath, the sensors can be bent with a minimal the radius of curvature of three times the outer diameter of the sheath.

Application areas:
- general machinery and equipment design,
- measuring temperature of liquids, gases and solid bodies,
- all branches of industry,
- measurement laboratories.



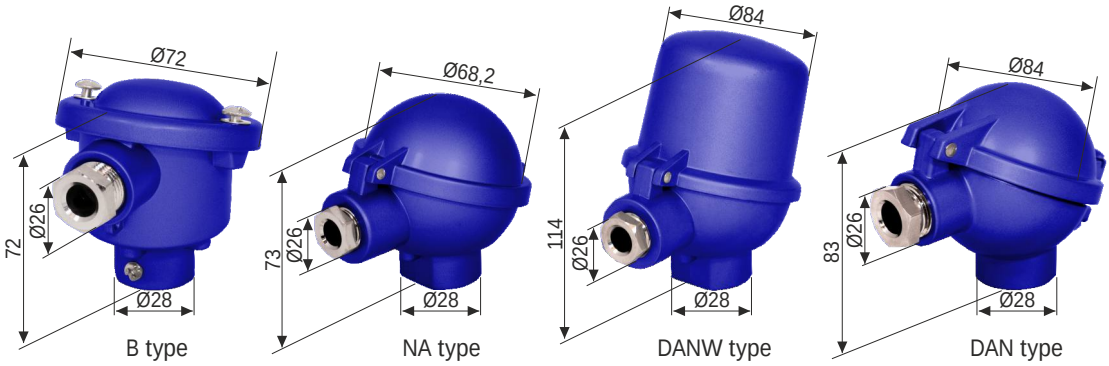
TECHNICAL DATA

Sensing element	Pt100, Pt500, Pt1000, Ni100 (2-, 3- or 4-wire)
Measuring range	-50 ÷ 550°C
Connection head	B, NA, MA, DAN or other, operating temperature -40 ÷ 150°C
Class	A or B
Thermowell	material: stainless steel 1.4541 or other any nominal length (specified when ordering) diameter: 1,5 ÷ 8 mm

RESISTOR TOLERANCE ACC. TO PN-EN 60751

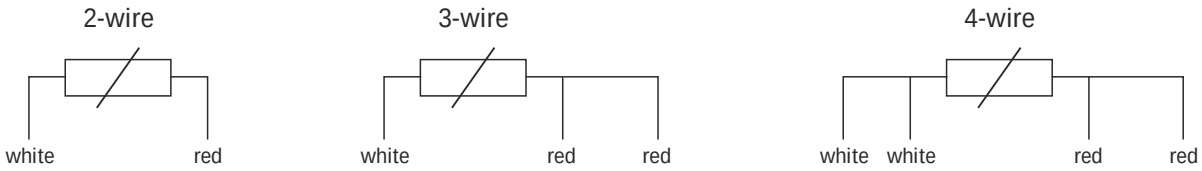
Class	Tolerance [°C]
A	t = 0,15 + 0,002 x |t|
B	t = 0,30 + 0,005 x |t|

CONNECTION HEAD TYPES

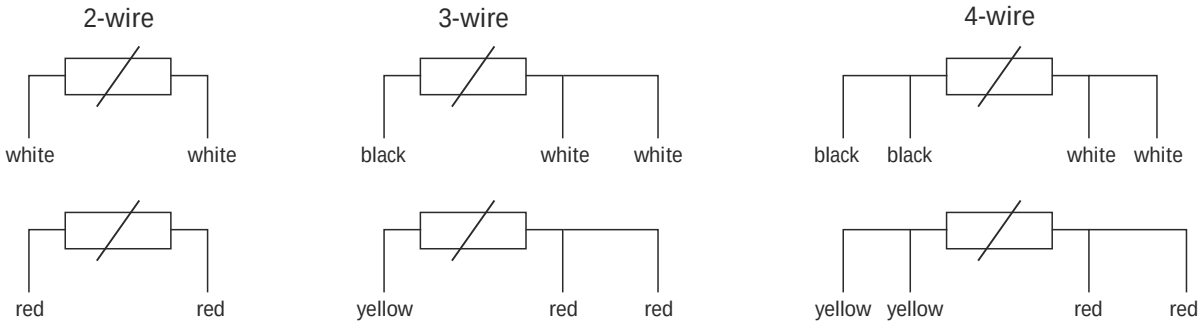


ELECTRICAL CONNECTION

1 x Pt 100



2 x Pt 100



ORDERING

SCR108-X-X-X-X-X-X-X-X-X

temperature sensor:
1 : single
2 : double
PP1 : without ceramic block
PP2 : with RTD/TC transmitter, 4...20mA
PP3 : with other transmitter (on request)

sensing element:
Pt 100
Pt 500
Pt 1000
other, please specify

thermowell diameter (d):
3 : 3 mm
6 : 6 mm
other, please specify

thermowell length (L):
please specify [mm]

connection head:
MA
NA
DAN
B
other, please specify

accuracy class:
A
B

measuring circuit:
2 : 2-wire
3 : 3-wire
4 : 4-wire

sensor measuring range, output type or temperature transmitter settings:
please specify

Ordering example:
SCR108-1-Pt100-3-500-B-B-2-150
Single RTD temperature sensor, 1xPt100, B tolerance class, 2-wire, B head type, sheath diameter 3 mm, sheath length 500 mm, sensor measuring range 150°C.