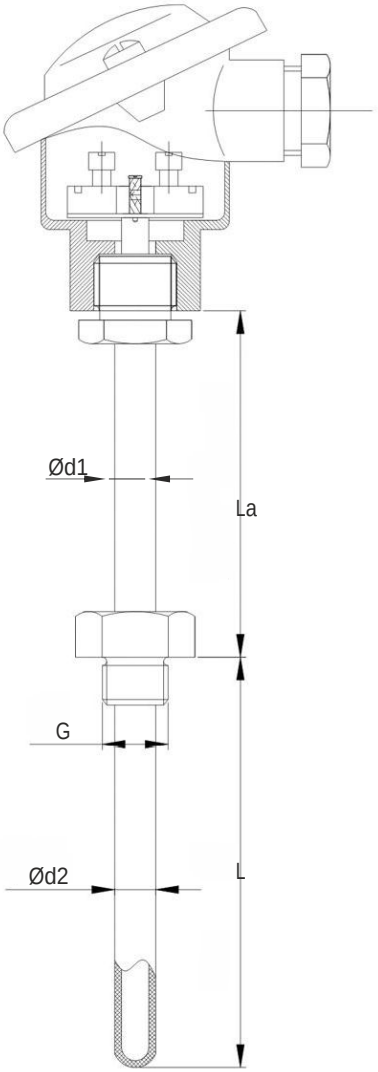
SCR104

- temperature range -50 ÷ 550°C
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- threaded process connection
- optional: sensor with a replaceable measuring insert
- possibility of mounting a 4...20 mA or 0...10 V temperature transmitter
- connection head DANW with local display

The resistance thermometer SCR104 consists of an exchangeable measuring insert, outer protective tube (thermowell) with neck, and aluminum connection head. Mounting a temperature transmitter with 4...20 mA or 0...10V output signal is possible. The measuring insert represents the replaceable element of the complete sensor, which reduces the time and costs of maintenance of the measuring apparatus installed in the object. Spring fixation of the measuring insert provides perfect pressure to the bottom of the protecting tube, reduces the time of reaction of temperature changes, and increases the accuracy. It also reduces natural vibration. Thus, mechanical and electrical defects can be avoided.

Application areas:
- fine chemical industry,
- light energy industry,
- general industrial services.



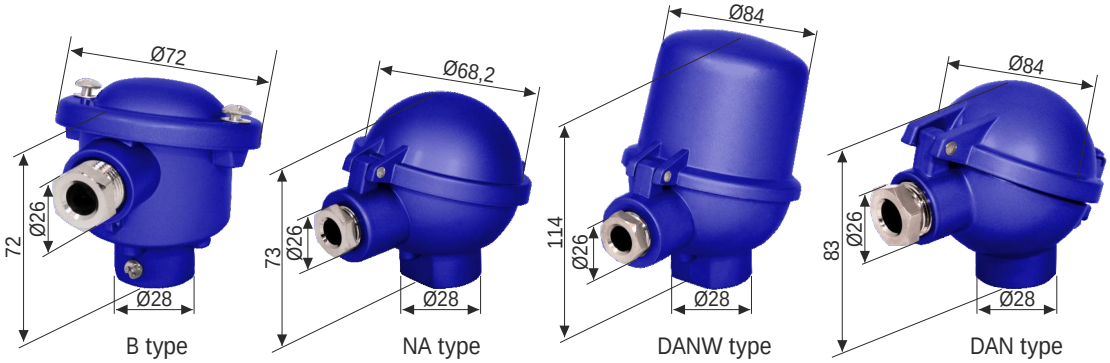
TECHNICAL DATA

Sensing element	Pt100, Pt500, Pt1000, Ni100 (2-, 3- or 4-wire)
Measuring range	-50 ÷ 550°C
Connection head	B, NA or other, operating temperature -40 ÷ 150°C
Class	A, B or 1/3 B
Sheath	material: stainless steel 1.4541 or other nominal length: 130 mm (standard) or other diameter: 4 ÷ 22 mm
Process connection	G1/2", M20x1,5, 1/2 NPT or other

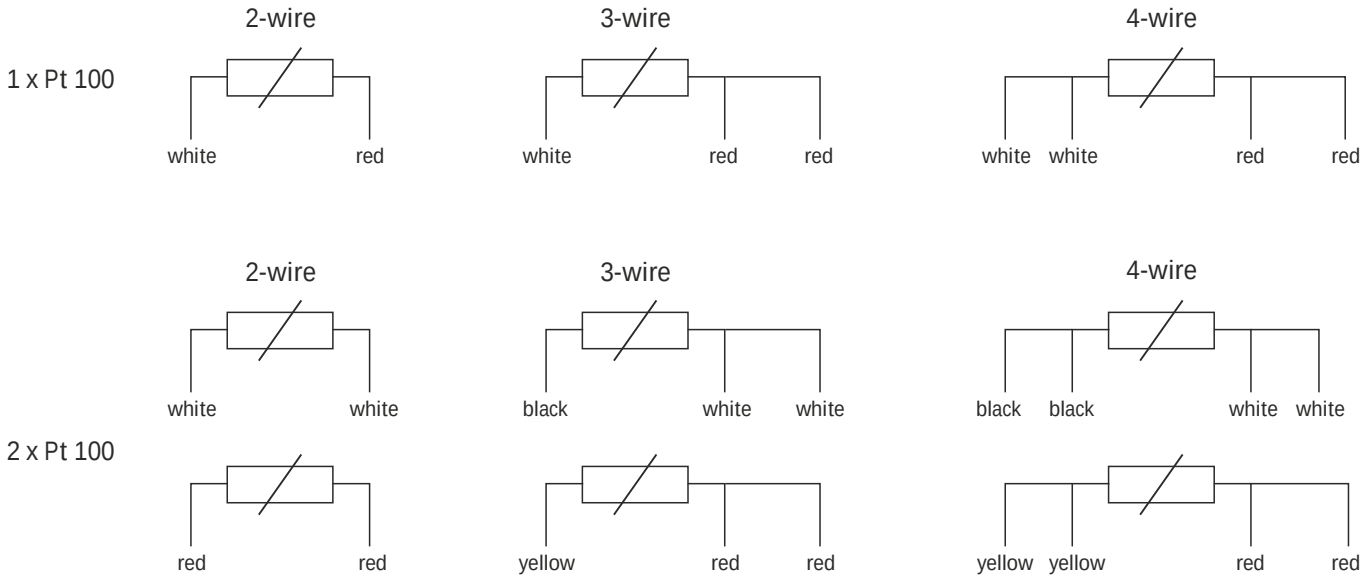
RESISTOR TOLERANCE ACC. TO PN-EN 60751

Class	Tolerance [°C]
1/3B	t = 0,10 + 0,002 x |t|
A	t = 0,15 + 0,002 x |t|
B	t = 0,30 + 0,005 x |t|

CONNECTION HEAD TYPES



ELECTRICAL CONNECTION



ORDERING

SCR104-X-X-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

connection head:
B
NA
other, please specify

sheath length (L):
100 mm
160 mm
other, please specify [mm]

length La [mm]:
S : 130 mm (standard)
other, please specify

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

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

accuracy class:
A
B
1/3B

process connection:
G1/2"
M20x1,5
other, please specify

sheath diameter (Ød1/Ød2):
4/6 : Ø 4/6 mm
6/8 : Ø 6/8 mm
7/9 : Ø 7/9 mm
other, please specify

measuring insert:
BW : non-replaceable
W : replaceable

Ordering example:
SCR104-1-Pt100-B-100-S-W-6/8-G1/2”-B-2-250
Single RTD temperature sensor, 1xPt100, B tolerance class, 2-wire, measuring insert replaceable, B connection head, process connection G1/2”, sheath diameter d1=6 mm and length 100 mm, sheath diameter d2=8 mm and length 130 mm, sensor measuring range 250°C.