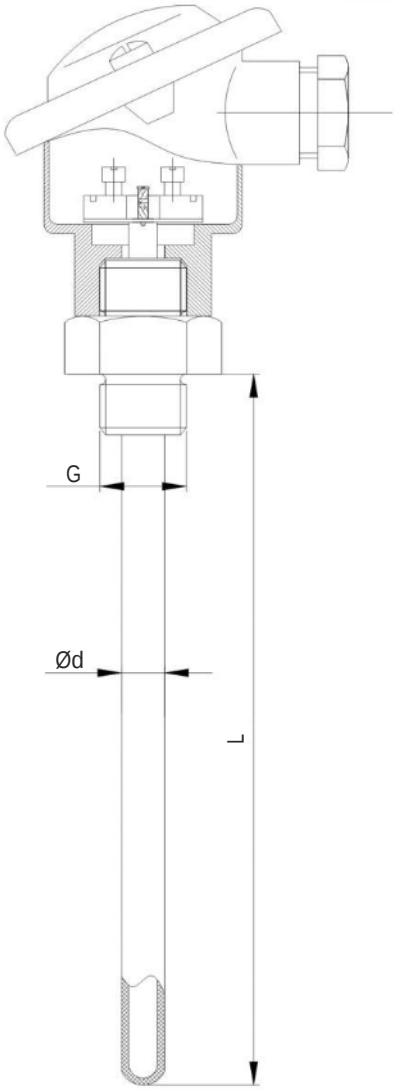
SCR100-Exi

- temperature range -40 ÷ 550°C
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- optional: sensor with a replaceable measuring insert
- possibility of mounting a 4...20 mA temperature transmitter

The resistance thermometer SCR100-Exi consists of an optional exchangeable measuring insert, outer protective tube (thermowell) and aluminum connection head, where mounting a temperature transmitter with 4...20 mA output signal is possible. The measuring insert represents the replaceable element of the complete sensor, which reduces time and costs of maintenance of the measuring apparatus installed in the object.

Application areas:
- machine construction, tanks or containers,
- fine chemical industry,
- light energy industry,
- general industrial services.



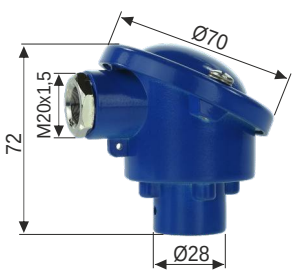
TECHNICAL DATA

Sensing element	Pt100, Pt500 or Pt1000 (2-, 3- or 4-wire)
Measuring range	-40 ÷ 200°C; on request: -40 ÷ 450°C (with non-replaceable insert), -40 ÷ 550°C (with replaceable insert)
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: according to order diameter: 6, 8, 9, 10, 11, 12, 15, 16 mm
Process connection	G1/2", M20x1,5 or other
ATEX approval	II 1G Ex ia IIC T4-T1 Ga; II 1D Ex ia IIIC T135°C÷450°C Da

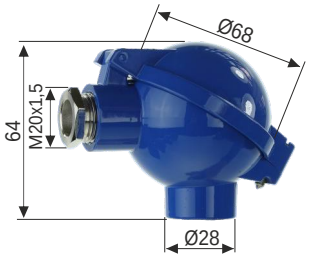
RESISTOR TOLERANCE ACC. TO PN-EN 60751

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|

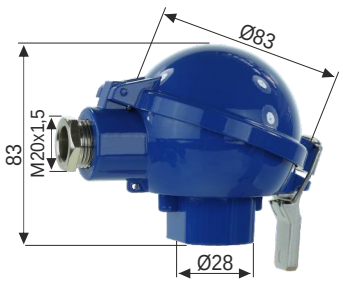
CONNECTION HEAD TYPES



B type

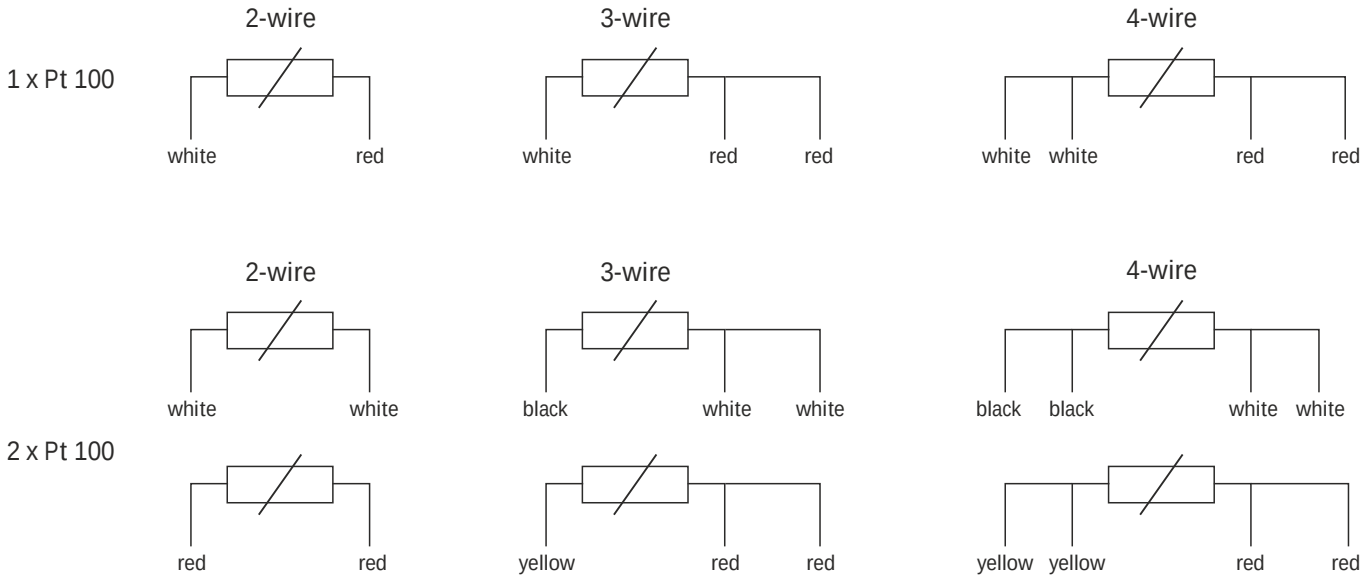


NA type



DAN type

ELECTRICAL CONNECTION



ORDERING

SCR100-Exi-X-X-X-X-X-X-X-X-X-X

temperature sensor:
1 : single
2 : double
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]

measuring insert:
BW : non-replaceable
W : replaceable

sensor operating temperature, 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 (Ød):
6 mm
9 mm
other, please specify

Ordering example:
SCR100-Exi-1-Pt100-B-100-W-9-M20x1,5-B-2-200
Single RTD intrinsically safe temperature sensor, 1xPt100, B tolerance class, 2-wire, replaceable measuring insert, B head type, process connection M20x1,5, sheath diameter 9 mm and length 100 mm, max. operating temperature 200°C.