



SCR120

- temperature range $-40 \div 550^{\circ}\text{C}$
- operating temperature of connection heads max. 150°C
- mounting in additional sheath
- sensor with a replaceable measuring insert
- measuring insert sheath AISI316 (1.4401)
- spring-loaded insert ensures an excellent connection with the thermowell
- possibility of mounting a 4...20mA or 0...10V temperature transmitter
- connection head DANW with local display

The resistance thermometer SCR120 consists of an exchangeable measuring insert, a spacer with a mounting stub and an aluminum connection head in which it is possible to install a programmable temperature transmitter with a 4-20mA output signal. The measuring insert is a replaceable element of the complete sensor, which significantly reduces the time and costs of servicing the measuring equipment on site. The spring-loaded mounting of the measuring insert ensures its perfect pressure to the bottom of the protective pipe installed on the facility, which shortens the response time to temperature changes and increases measurement accuracy and reduces natural vibrations, which translates into avoiding mechanical and electrical damage. The immersion length, process connection thread, spacer length and sensor head can be selected depending on the application needs/requirements.

Application areas

- installations of technological processes in all industries,
- mechanical engineering,
- heating, air conditioning and ventilation installations.

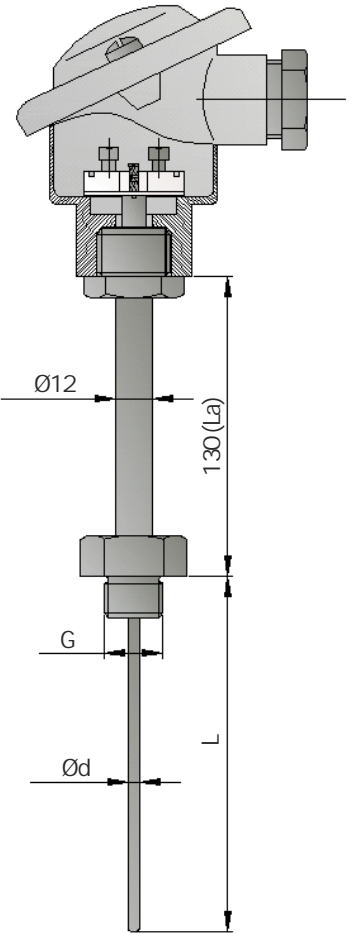
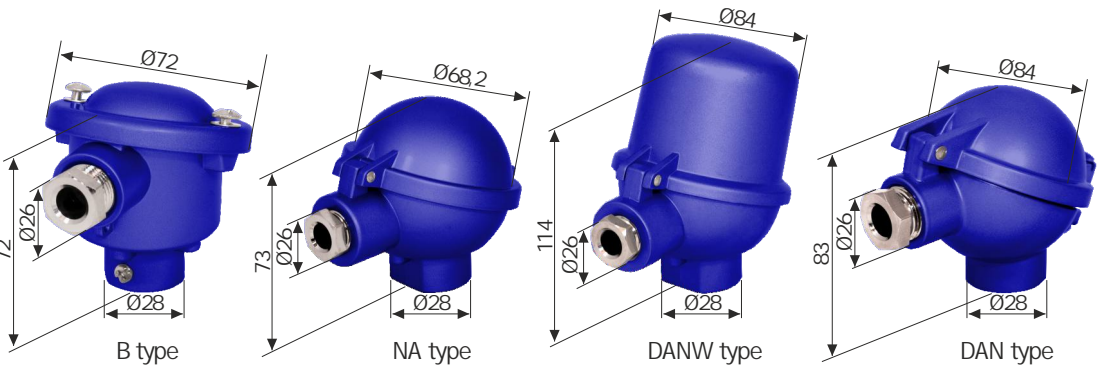
TECHNICAL DATA

Sensing element	Pt100, Pt500 or Pt1000 (2-, 3- or 4-wire) or other
Measuring range	$-40 \div 550^{\circ}\text{C}$
Connection head	B, NA, MA, DAN or other, operating temperature $-40 \div 150^{\circ}\text{C}$
Class	A or B
Sheath	mineral insulated or tube material: stainless steel AISI316 (1.4401) any nominal length (specified when ordering) diameter: 3 ... 8 mm or other
Process connection	G1/2, M20x1,5 or other according to order

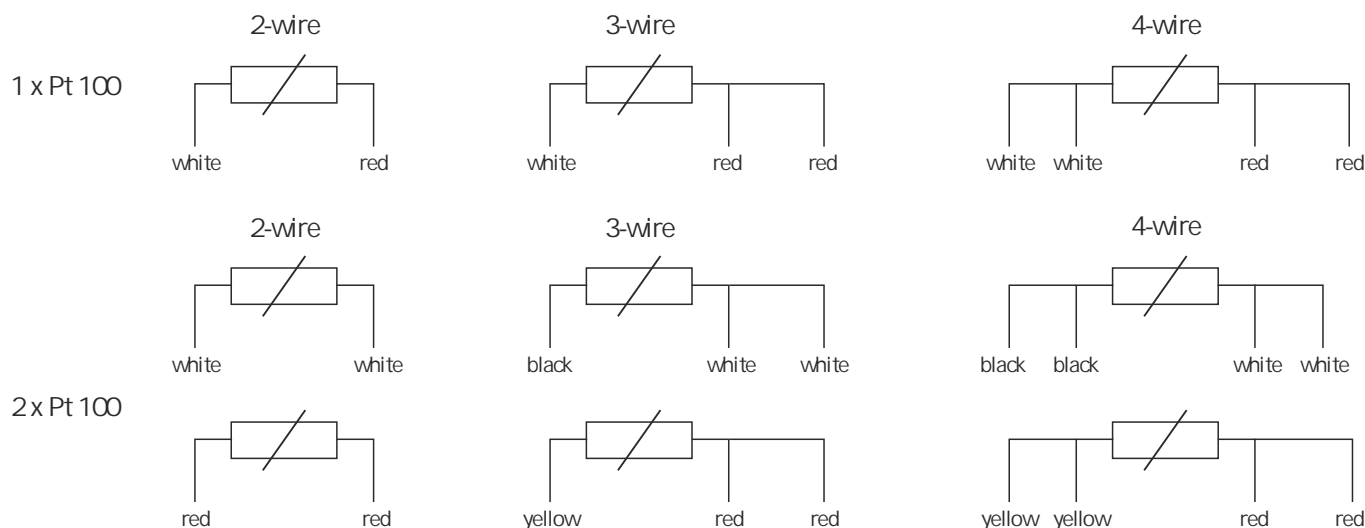
RESISTOR TOLERANCE ACC. TO PN-EN 60751

Class	Tolerance [$^{\circ}\text{C}$]
A	$t = 0,15 + 0,002 \times t $
B	$t = 0,30 + 0,005 \times t $

CONNECTION HEAD TYPES



ELECTRICAL CONNECTION



ORDERING

SCR120-X-X-X-X-X-X-X-X-X-X

<u>temperature sensor:</u> 1: single 2: double PP1: without ceramic block PP2: with RTD/TC transmitter, 4...20mA PP3: with other transmitter (on request)	<u>sensor measuring range, output type or temperature transmitter settings:</u> please specify.
<u>sensing element:</u> Pt 100 Pt 500 Pt 1000 other, please specify	<u>measuring circuit:</u> 2: 2-wire 3: 3-wire 4: 4-wire
<u>connection head:</u> B NA other, please specify	<u>accuracy class:</u> A B
<u>transitional sheath length (La):</u> S: 130 mm (standard) other, please specify	<u>process connection:</u> G1/2" M20x1,5 other, please specify
<u>insert diameter (Ød):</u> 3: 3 mm 4,5: 4,5 mm 6: 6 mm 8: 8 mm other, please specify	<u>measuring insert:</u> P: mineral insulated Z: tube
	<u>proper sheath length (L):</u> 100 mm 200 mm other, please specify [mm]

Ordering example:

SCR120-1-Pt100-B-S-6-100-P-M20x1,5-A-2-500

Single RTD temperature sensor, 1xPt100, B tolerance class, 2-wire, with mineral insulated measuring insert diameter 6 mm and length 100 mm, B head type, process connection M20x1,5 mm, sensor measuring range 500°C.

