



## SCR101-Exi

- temperature range  $-40 \div 550^{\circ}\text{C}$
- operating temperature of connection heads max.  $150^{\circ}\text{C}$
- stainless steel sheath
- optional: sensor with a replaceable measuring insert
- possibility of mounting a 4...20mA temperature transmitter

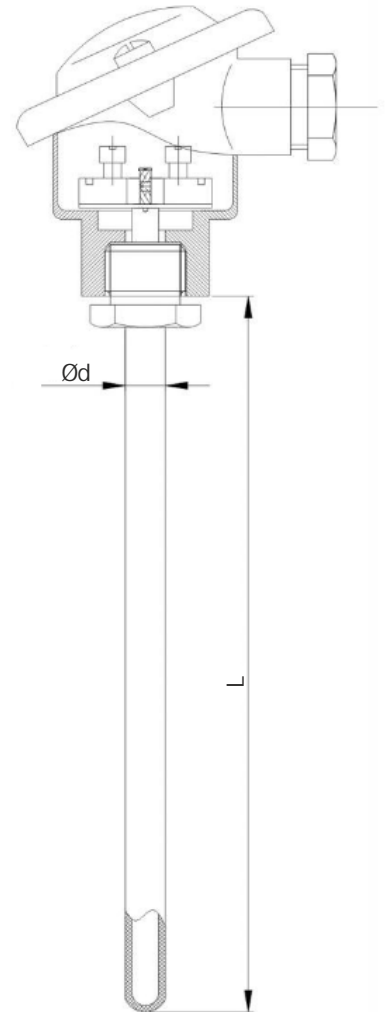
The resistance thermometer SCR101-Exi consists of an optional exchangeable measuring insert, outer protective tube (thermowell) and aluminum connection head, with mounting a temperature transmitter with 4...20 mA output signal is possible. The measuring insert represents the replaceable element of the complete sensor, which reduces the time and costs of maintenance of the measuring apparatus installed in the object. Compression fittings allow simple adaptation to the required insertion length at the installation point.

### Application areas

- machine construction, tanks or containers,
- fine chemical industry,
- light energy industry,
- food industry,
- general industrial services

### TECHNICAL DATA

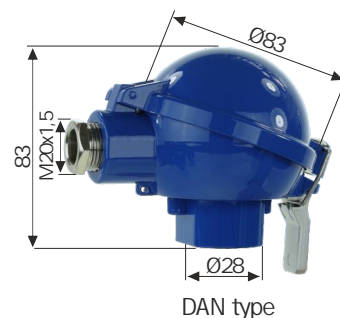
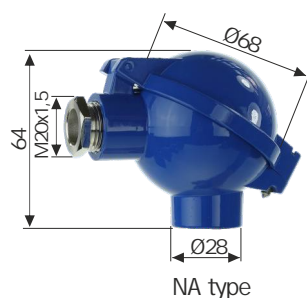
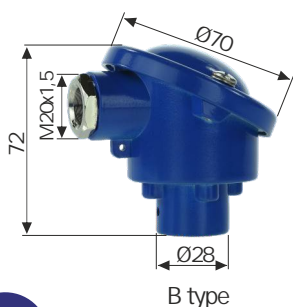
Sensing element	Pt100, Pt500 or Pt1000 (2-, 3- or 4-wire)
Measuring range	$-40 \div 450^{\circ}\text{C}$ (with non-replaceable insert), $-40 \div 550^{\circ}\text{C}$ (with replaceable insert)
Connection head	B, NA or other, operating temperature $-40 \div 150^{\circ}\text{C}$
Class	A, B or 1/3 B
Sheath	material: stainless steel 1.4541 or other nominal length: according to order diameter: 3, 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 15 mm (with non-replaceable insert), 8, 9, 10, 11, 12, 15 mm (with replaceable insert)
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 [ $^{\circ}\text{C}$ ]
1/3B	$t = 0,10 + 0,002 \times  t $
A	$t = 0,15 + 0,002 \times  t $
B	$t = 0,30 + 0,005 \times  t $

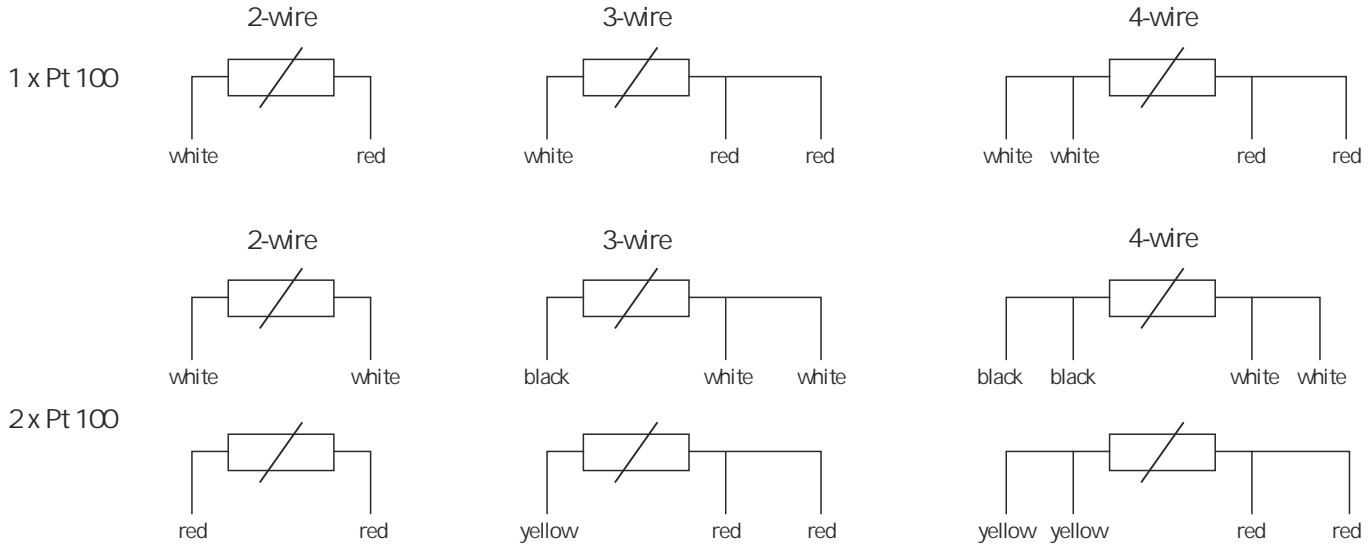
### CONNECTION HEAD TYPES



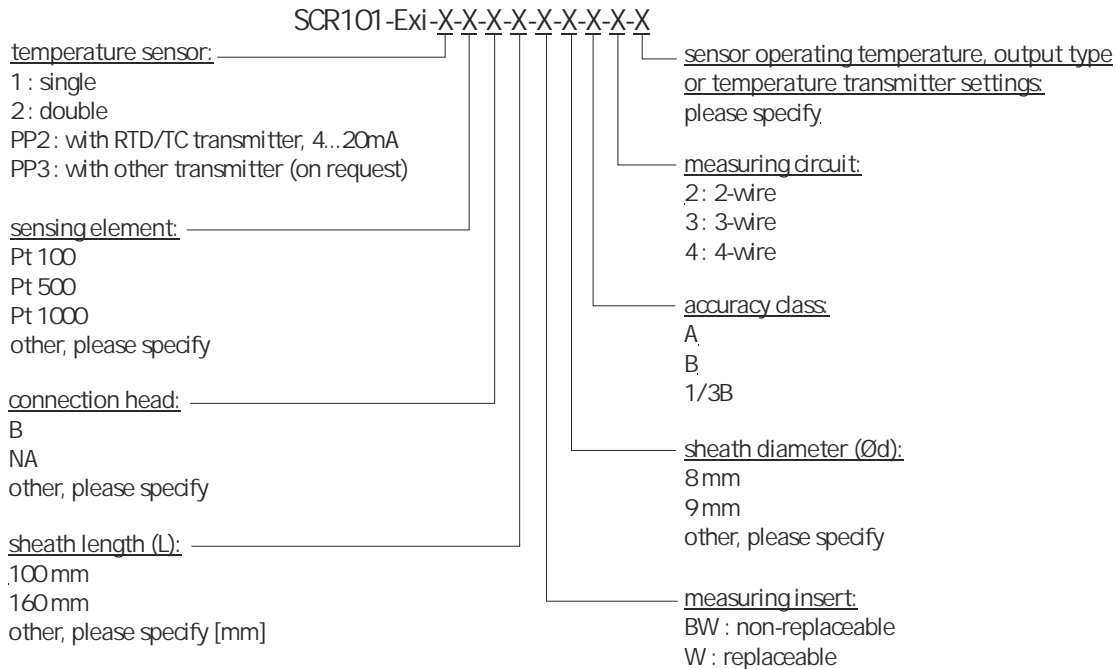
## OPTIONAL ACCESORIES

S type flange  
(stainless steel)T type flange  
(PTFE)Threaded holder (fitting)  
with a compression ferrule  
(brass or stainless steel)

## ELECTRICAL CONNECTION



## ORDERING



Ordering example:

SCR101-Exi-1-Pt100-B-100-BW-9-B-2-150

Single RTD intrinsically safe temperature sensor, 1xPt100, B tolerance class, 2-wire, non-replaceable measuring insert, B head type, sheath diameter 9 mm and length 100 mm, max. operating temperature 150°C.

