

SCR201



- temperature range $-50 \div 400^{\circ}\text{C}$ (depending on the cable used)
- stainless steel sheath
- minimum sheath length: 15 mm, minimum sheath diameter: 3 mm
- any maximum sheath length
- thermowell spring protection against excessive cable bending

Resistance thermometers SCR201 are designed for fitting directly into a drilled hole or process. Consist of a thermometric resistor, a protection tube made out of stainless steel, and a connection cable. Insertion length, thermowell diameter, process connection thread, number of sensors, accuracy, cable length, and insulation can be selected individually for the respective application.

Application areas

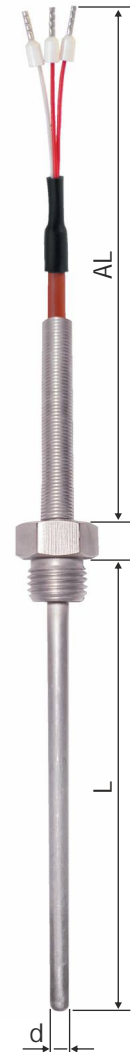
- fine chemical industry,
- light energy industry,
- general industrial services.

TECHNICAL DATA

| | |
|--------------------|--|
| Sensing element | Pt100, Pt500 or Pt1000 (2-, 3- or 4-wire) or other |
| Measuring range | $-50 \div 400^{\circ}\text{C}$ (depending on the cable used) |
| Class | A, B or 1/3 B |
| Sheath | material: stainless steel nominal length (min. 15 mm): 50 mm (standard) or other diameter (min. 3 mm): 4 mm, 5 mm, 6 mm or other |
| Cable | type according to the table, standard length 1500 mm or other according to order |
| Process connection | G1/2; M10x1; M14x1,5 or other according to order |

CONNECTION CABLES

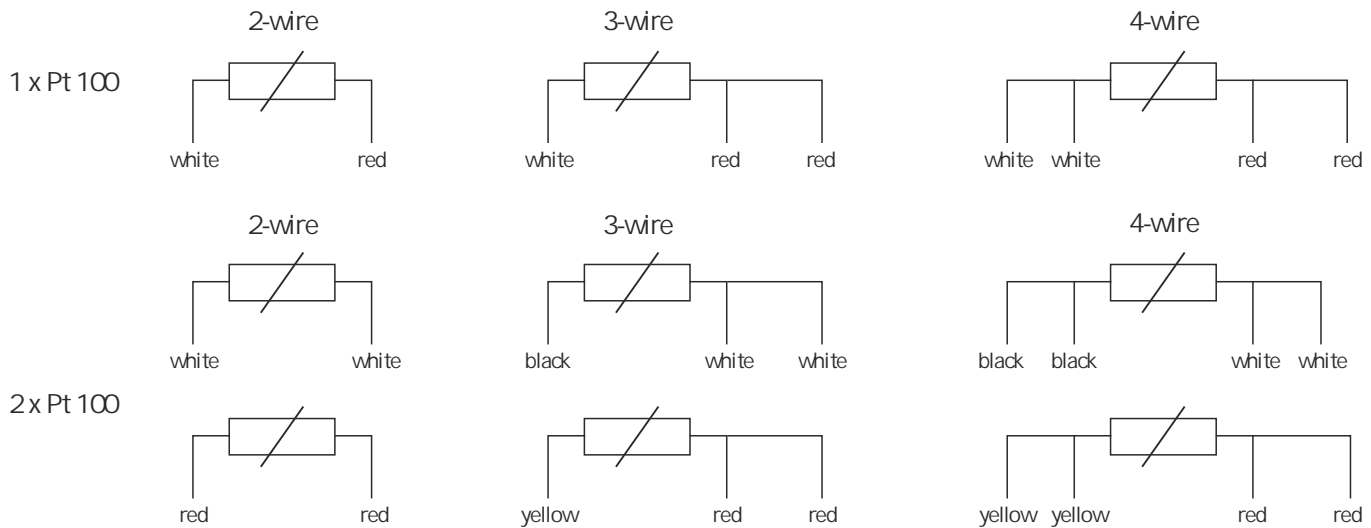
| Diagram | Insulation design | Temperature range | Code |
|---------|-------------------------------------|----------------------------|------|
| | Double fiberglass - stainless steel | 400°C max. | WS |
| | PVC | 105°C max. | PVC |
| | Teflon - stainless steel - teflon | 260°C max. | TOT |
| | Teflon - stainless steel | 260°C max. | TO |
| | Silicon - stainless steel - silicon | 180°C max. | SOS |
| | Silicon - silicon | 250°C max. | SS |
| | Teflon - teflon | 260°C max. | TT |



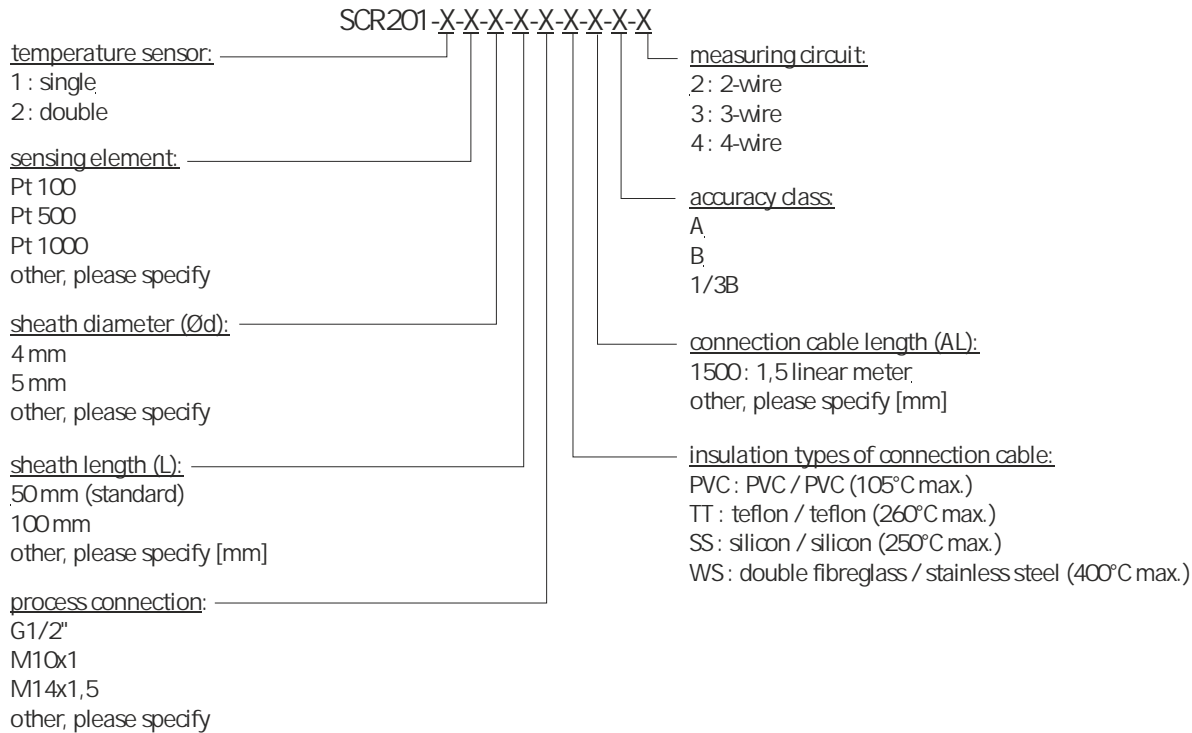
RESISTOR TOLERANCE ACC. TO PN-EN 60751

| Class | Tolerance [°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 $ |

ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCR201-1-Pt100-5-50-M14x1,5-WS-1500-B-2

Single RTD temperature sensor, 1xPt100, B tolerance class, 2-wire, process connection M14x1,5 mm, thermowell diameter 5 mm and length 50 mm, double fibreglass insulation, cable length 1500 mm.

