

SCR203



- temperature range $-50 \div 400^{\circ}\text{C}$ (depending on the cable used)
- mounting by a drilled hole in thermowell
- stainless steel sheath
- thermowell spring protection against excessive cable bending

Resistance thermometers SCR203 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) |
| Measuring range | $-50 \div 400^{\circ}\text{C}$ (depending on the cable used) |
| Class | A, B or 1/3 B |
| Sheath | material: stainless steel diameter: 4 mm, 6 mm or 8 mm |
| Cable | type according to the table, standard length 1500 mm or other according to order |
| Mounting hole | 3,2 mm; 4,2 mm or 5,2 mm (depends on sheath diameter) |

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 |



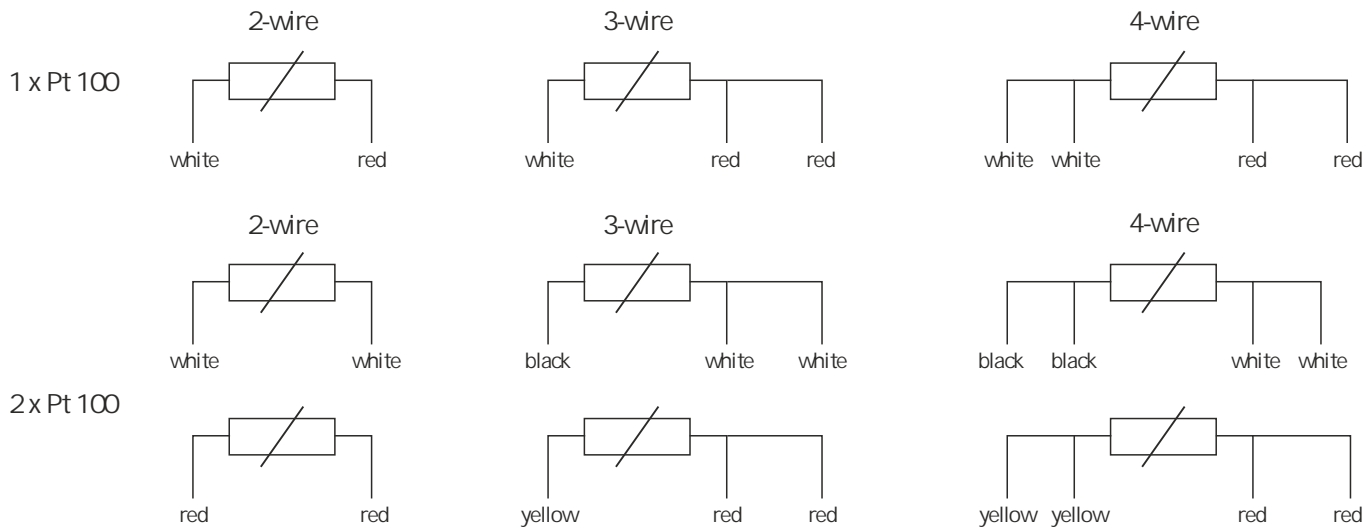
| Sheath diameter | Mounting hole diameter (d1) | Width (d) |
|-----------------|-----------------------------|-----------|
| Ø 4 mm | Ø 3,2 mm | 6 mm |
| Ø 6 mm | Ø 4,2 mm | 8 mm |
| Ø 8 mm | Ø 5,2 mm | 10 mm |



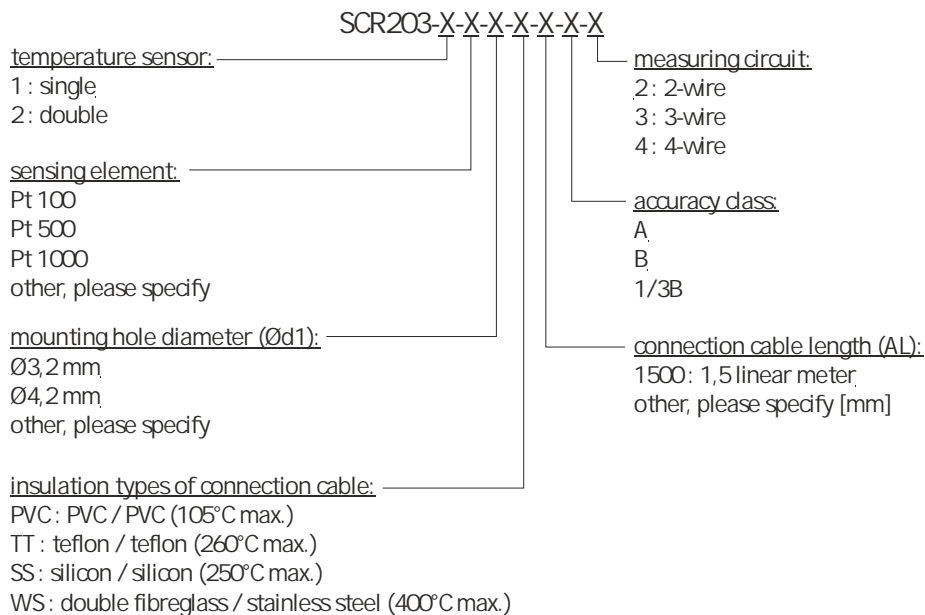
RESISTOR TOLERANCE ACC. TO PN-EN 60751

| 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:

SCR203-1-Pt100-3-2-WS-1500-B-2

Single RTD temperature sensor, 1xPt100, B tolerance class, 2-wire, mounting hole diameter 3,2 mm, double fibreglass insulation, cable length 1500 mm.

