

SCR300



with „mini” plug or socket

- mineral insulated resistance sensor
- different types of sensor connections
- accurate measurement and short reaction time to temperature changes
- small dimensions enable working in hard-to-reach places
- resistance to vibrations and the possibility of bending
- sheath made of acid-resistant steel

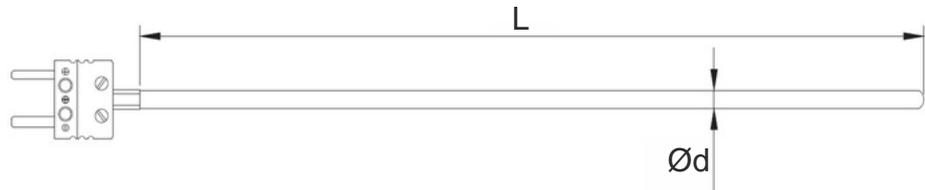
Resistance thermometers **SCR300** are made of metal-sheathed cables with internal wires (Cu or Ni). They are insulated from each other, with the outer sheath with magnesium oxide (MgO) powder. It provides the sensor with high vibration resistance, flexibility, as well as temperature resistance, and good electrical insulation. These sensors are designed for direct temperature measuring in places with difficult access. There are also used in every application, where it is required to use flexible and small diameter probe, with high resistance to shock, vibration, and short response time to temperature changes. Due to tight pressing of the insulating layer (MgO) and the appropriate structure of the inner wires and the sheath, the sensors can be bent with a minimal the radius of curvature of three times the outer diameter of the sheath. **Application areas:** - general machinery and equipment design, - measuring temperature of liquids, gases and solid bodies, - all branches of industry, - measurement laboratories.

TECHNICAL DATA

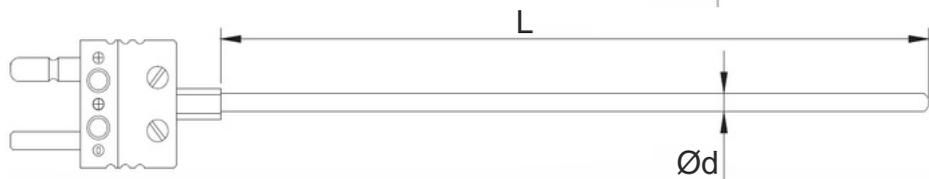
Sensing element	Pt100, Pt500, Pt1000 (2-, 3- or 4-wire)
Measuring range	-50 ÷ 400°C (depending on the cable used)
Process connection	standard / mini / Lemo plug or socket
Class	A or B
Thermowell	material: stainless steel length: any diameter: 1,5 ÷ 8 mm
Cable	type with table, standard length 1500 mm or other according to order

CONSTRUCTION

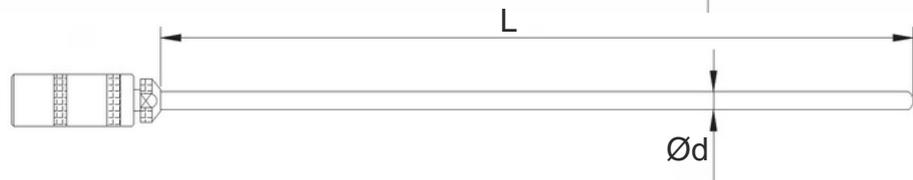
A: with MINI plug or socket



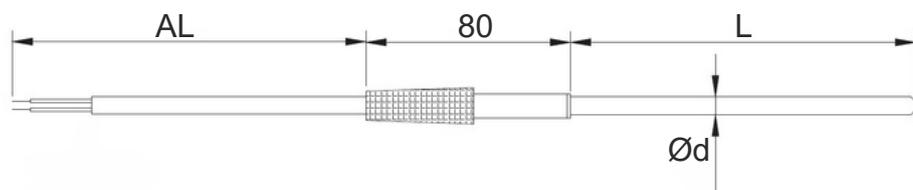
B: with STANDARD plug or socket



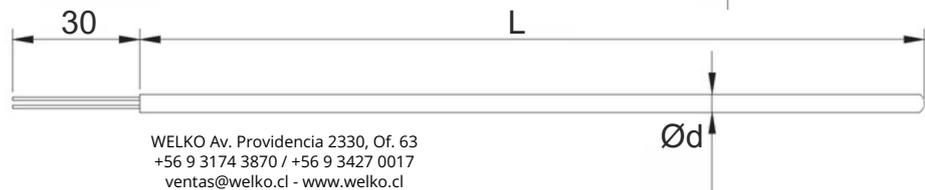
C: with LEMO type plug or socket



D: with pot seal and compensating cable

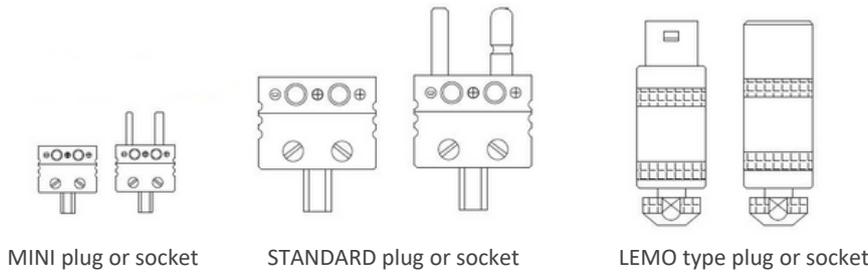


E: with free isolated wires



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CONNECTION



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

ORDERING

SCR300-X-X-X-X-X-X-X-X-X

temperature sensor:

- 1 : single
- 2 : double

construction:

- A : MINI plug or socket
- B : STANDARD plug or socket
- C : LEMO type plug or socket
- D : with pot seal and compensating cable
- E : with free isolated wires

sensing element:

- Pt 100
- Pt 500
- Pt 1000
- other, please specify

sheath diameter (∅d):

- 3 mm
- 6 mm
- other, please specify

sheath length (L):

please specify [mm]

measuring circuit:

- 2 : 2-wire
- 3 : 3-wire
- 4 : 4-wire

accuracy class:

- A
- B

connection type:

- G : socket
- W : plug

connection cable length (AL):

- 1500 : 1,5 linear meter
- other, please specify [mm]

insulation types of connection cable:

- PVC : PVC / PVC (105°C max.)
- TT : teflon / teflon (260°C max.)
- SS : silicon / silicon (250°C max.)
- WS : double fibreglass / stainless steel (400°C max.)

Ordering example:

SCR300-1-B-Pt100-6-500-TT-1500-W-A-2

Single mineral insulated RTD temperature sensor, 1xPt100, A tolerance class, 2-wire, thermowell diameter 6 mm, length 500 mm, teflon insulation, connection cable length 1500 mm, standard size plug.

