

Push-in thermocouples with compensating cable

- for temperatures from 0 to 600°C
- available with different thermocouples
- with stainless steel protection tube
- silicone compensating cable or with metal braiding
- also with 90° cable entry

Push-in thermocouples are preferred for measuring temperatures on solids, such as hot-plates and welding jaws. Applications include ovens, plant engineering and machinery.

Depending on the version, compensating cables are suitable for use in dry areas within the temperature range -20 to +350°C. The connection of the cable to the protection tube incorporates strain relief. A cable protector is available as an option.

Protection tubes in stainless steel protect the measuring insert from chemical influences and mechanical damage.

The measuring insert is fitted with thermocouples to EN 60 584 and DIN 43 710.



Technical data

Connection

available with cable ends as: bare wires, with ferrules, receptacle or multipole connector

Compensating cable

silicone, ambient temperature -50 to +180°C
metal braiding, ambient temperature -20 to +350°C
compensating cable available with shielding (option)

Protection tube

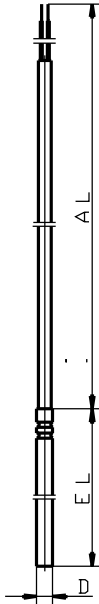
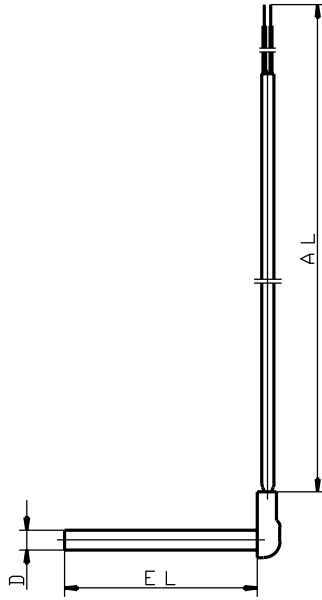
stainless steel 1.4571, 3mm, 6mm or 8mm dia.

Measuring insert

insulated assembly:
1 x Fe-Con L, DIN 43 710, Cl. 2, operating temperature -200 to +600°C
1 x NiCr-Ni K, EN 60 584, Cl. 2, operating temperature -200 to +600°C

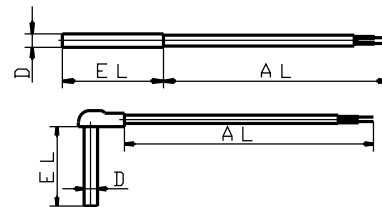
Accessories

pocket, see Data Sheet 90.9721

Dimensions**Type 901105/10****Type 901105/20**

Order details: Push-in thermocouples with compensating cable

(1) Basic version	
	901105/10 Push-in thermocouple with stainless steel protection tube
	901105/20 Push-in thermocouple with stainless steel protection tube angled at 90°
(2) Operating temperature in °C / compensating cable	
x x	380 -50 to +200°C / silicone
x x	390 -50 to +300°C / metal braiding
x	840 0 to 300°C / metal braiding
x	843 0 to 350°C / metal braiding
x	848 0 to 400°C / metal braiding
x	858 0 to 600°C / metal braiding
(3) Measuring insert	
x x	1042 1 x Fe-Con L
x x	1043 1 x NiCr-Ni K
(4) Protection tube diameter D in mm	
x x	6 6mm
(5) Fitting length EL in mm (40 ≤ EL ≤ 500 for Type 901105/10)	
x	12 12mm
x	50 50mm
x x	60 60mm
x	100 100mm
x	200 200mm
x	300 300mm
x	... please specify in plain text (50mm steps)
(6) Compensating cable end	
x x	03 bare cable ends
x x	11 ferrules to DIN 46 228 Part 4 (standard)
x x	13 receptacle 6.3 to DIN 46 247
x x	80 multipole connector (please specify type in plain text)
(7) Compensating cable length AL in mm (500 ≤ AL ≤ 500000)	
x x	2500 2500mm
x x	... please specify in plain text (500mm steps)
(8) Extra codes	
x x	000 no extra code
x x	309 uninsulated assembly (thermocouple welded to tip)
x x	315 cable protector: coil
x	316 cable protector: tube



Order code (1) - (2) - (3) - (4) - (5) - (6) - (7) / (8) , ...

Order example 901105/10 - 848 - 1042 - 6 - 100 - 11 - 2500 / 000¹

1. List extra codes in sequence, separated by commas.

Stock versions:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.
901105/10	848	1042	6	50	11	2500	315	90/00055455
901105/10	858	1042	6	100	11	2500	315	90/00065812
901105/20	840	1042	6	60	11	2500	000	90/00055448