

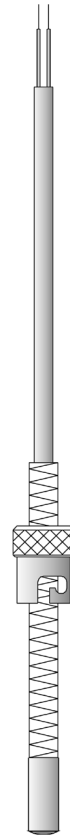
Push-in thermocouples with bayonet lock

- for temperatures from 0 to 400°C
- as single or twin thermocouple
- good heat transfer through adjustable spring pressure
- insulated assembly, or joined to protection tube
- insertion and removal without tools

Push-in thermocouples with bayonet lock are preferred for measuring temperatures in solids, bearings and moulding tools, for example in the plastics industry. The special form of the measuring tips makes these temperature probes suitable for use in flat-bottom or cone-shaped bores.

The rugged pressure spring, which also functions as a cable protector, is made from rust and acid resistant stainless steel 1.4310 and ensures a steady pressure between the measuring tip and the bottom of the hole. The fitting length can be altered by rotating the bayonet lock. Bayonet locks and suitable sockets are available in the diameters 12, 15 and 16mm.

The measuring insert is normally fitted with thermocouples to EN 60 584 or DIN 43 710. Versions with two thermocouples are also available.



Technical data

Connection

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

Connecting cable

silicone, ambient temperature -50 to +180°C
Teflon, ambient temperature -190 to +260°C
metal braiding, ambient temperature -20 to +350°C

Process connection

bayonet lock, nickel-plated brass, 12mm, 15mm or 16mm dia.

Protection tube

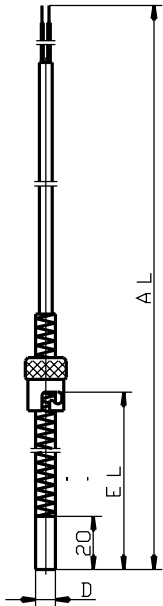
stainless steel 1.4571, 6mm and 8mm dia.

Measuring insert

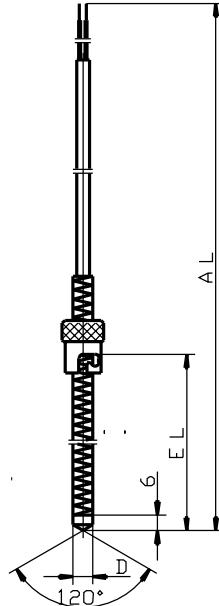
insulated assembly:

1 x Fe-Con J, EN 60 584, Cl. 2, operating temperature 0 to 400°C
1 x Fe-Con L, DIN 43 710, Cl.2, operating temperature 0 to 400°C
1 x NiCr-Ni K, EN 60 584, Cl. 2, operating temperature 0 to 400°C
2 x Fe-Con L, 43 710, Cl. 2, operating temperature 0 to 400°C
2 x NiCr-Ni K, EN 60 584, Cl.2, operating temperature 0 to 400°C

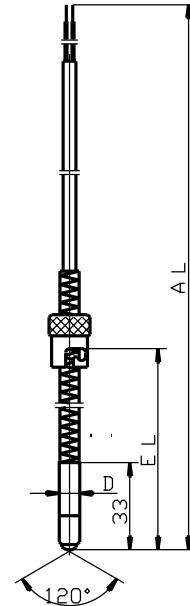
Dimensions



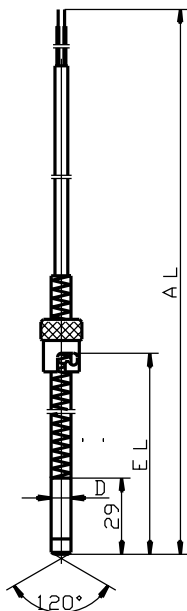
Type 901109/10



Type 901109/20



Type 901109/30



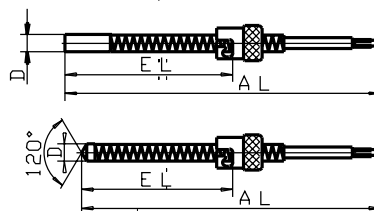
Type 901109/40

Order details: Push-in thermocouples with bayonet lock

(1) Basic version

901109/10 Push-in thermocouple, protection tube / measuring tip (flat-bottom) stainless steel, Mat. Ref. 1.4571, bayonet lock 12mm dia.

901109/20 Push-in thermocouple, protection tube / measuring tip (120°) stainless steel, Mat. Ref. 1.4571, bayonet lock 12mm dia.



(2) Operating temperature in °C / compensating cable

x	x	832	0 to 200°C / silicone
x	x	835	0 to 260°C / metal braiding
x	x	836	0 to 260°C / Teflon
x	x	848	0 to 400°C / metal braiding

(3) Measuring insert

x	x	1040	1 x Fe-Con J (not with metal braiding)
x	x	1042	1 x Fe-Con L
x	x	1043	1 x NiCr-Ni K
x	x	2042	2 x Fe-Con L
x	x	2043	2 x NiCr-Ni K

(4) Protection tube diameter D in mm

x		6	6mm
x	x	8	8mm

(5) Fitting length EL in mm

x		175	20 - 175mm
	x	240	6 - 240mm

(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 (standard)
x	x	...	please specify in plain text (500mm steps)

(8) Extra codes

x	x	000	no extra code
x	x	302	bayonet lock 15mm dia.
x	x	303	bayonet lock 16mm dia.
x	x	309	uninsulated assembly (thermocouple welded to tip)

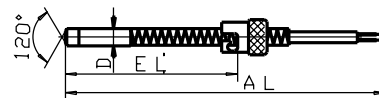
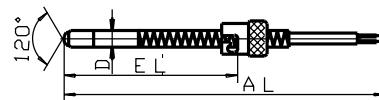
Order code (1) (2) (3) (4) (5) (6) (7) (8) ...

Order example 901109/10 - 848 - 1042 - 6 - 175 - 11 - 2500 / 000¹

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

Order details: Push-in thermocouples with bayonet lock

		(1) Basic version
	901109/30	Push-in thermocouple, protection tube / measuring tip (120°) stainless steel, Mat. Ref. 1.4571, bayonet lock 12mm dia.
	901109/40	Push-in thermocouple, protection tube stainless steel, Mat. Ref. 1.4571, measuring tip (120°) ceramic, KER 221, bayonet lock 12mm dia.
		(2) Operating temperature in °C / compensating cable
x	x	832 0 to 200°C / silicone
x		835 0 to 260°C / metal braiding
x		836 0 to 260°C / Teflon
	x	848 0 to 400°C / metal braiding
		(3) Measuring insert
x	x	1040 1 x Fe-Con J (not with metal braiding)
x	x	1042 1 x Fe-Con L
x	x	1043 1 x NiCr-Ni K
x	x	2042 2 x Fe-Con L
x	x	2043 2 x NiCr-Ni K
		(4) Protection tube diameter D in mm
x	x	6 6mm
		(5) Fitting length EL in mm
x		175 33 - 175mm
	x	175 29 - 175mm
		(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 (standard)
x	x	... please specify in plain text (500mm steps)
		(8) Extra codes
x	x	000 no extra code
x	x	302 bayonet lock 15mm dia.
x	x	303 bayonet lock 16mm dia.
x	x	309 uninsulated assembly (thermocouple welded to tip)



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

Order example 901109/30 - 836 - 1042 - 6 - 175 - 11 - 2500 / 000¹

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

Note: For bayonet sockets, see Data Sheet 90.9725

Stock versions:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.
901109/10	- 848	- 1042	- 6	- 175	- 11	- 2500	/ 000	90/00055784
901109/10	- 848	- 1042	- 8	- 175	- 11	- 2500	/ 000	90/00055785
901109/20	- 848	- 1042	- 8	- 240	- 11	- 2500	/ 309	90/00055792
901109/30	- 835	- 1042	- 6	- 175	- 13	- 2500	/ 309	90/00055806
901109/30	- 835	- 2042	- 6	- 175	- 13	- 2500	/ 309	90/00055807
901109/40	- 848	- 1042	- 6	- 175	- 13	- 2500	/ 000	90/00055804