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Push-in RTD temperature probes with bayonet lock



- **for temperatures from -50 to +350°C**
- **with sheaths in different materials**
- **as single or twin RTD temperature probe**
- **good heat transfer through adjustable spring pressure**
- **insertion and removal without tools**

Push-in RTD temperature probes with bayonet lock are preferred for measuring temperatures in solids, on bearings and moulding tools, for example in the plastics industry. Thanks to the special shape of the measuring tip, these temperature probes are suitable for use in flat-bottom and cone-shaped bores.

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

The sensor is normally a Pt100 temperature sensor to EN 60 751, Class B in 2-wire circuit, but versions with Pt500 or Pt1000 are also available. 3-wire and 4-wire connections can be provided.

Technical data

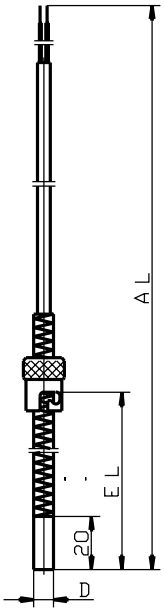
Connection	cable ends available as: bare wires, with ferrules, receptacle or multipole connector
Connecting cable	silicone, ambient temperature -50 to +180°C PTFE, ambient temperature -190 to +260°C metal braiding, ambient temperature -50 to +350°C connecting cable available with shielding (option)
Process connection	bayonet lock, nickel-plated brass, 12mm, 15mm or 16mm dia.
Sheath	stainless steel 1.4571, 6mm and 8mm dia.
Measuring insert	Pt100 temperature sensor, EN 60 751, Cl. B, 2-wire circuit
Accessories	bayonet sockets, Data Sheet 90.9725

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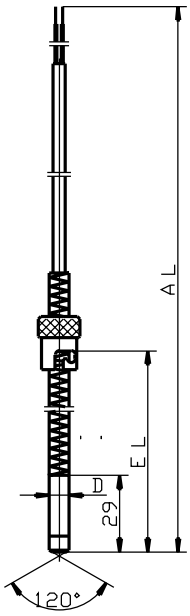
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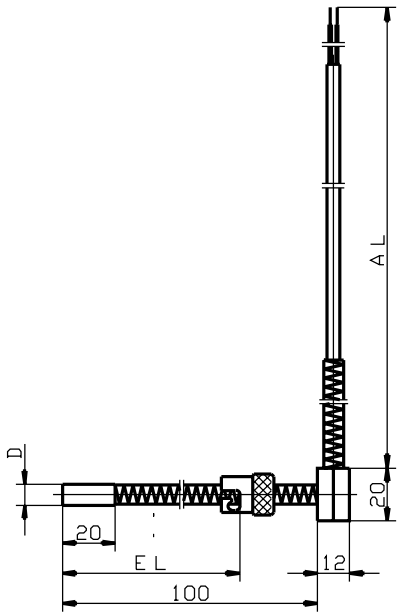
Dimensions



Type 902190/10



Type 902190/20



Type 902190/30

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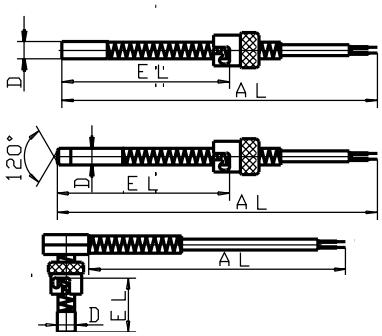
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Order details: Push-in RTD temperature probes with bayonet lock

(1) Basic version

902190/10	Push-in RTD temperature probe, sheath / measuring tip (flat-bottom) in stainless steel, Mat. Ref. 1.4571; bayonet lock: 12mm dia.
902190/20	Push-in RTD temperature probe, sheath in stainless steel, Mat. Ref. 1.4571, measuring tip (120°) ceramic, KER 221; bayonet lock: 12mm dia.
902190/30	Push-in RTD temperature probe, sheath / measuring tip (flat-bottom) in stainless steel, Mat. Ref. 1.4571; bayonet lock: 12mm dia.



				(2) Operating temperature in °C / connecting cable
x	x	x	380	-50 to +200°C/silicone
x	x	x	386	-50 to +260°C/PTFE
x	x	x	388	-50 to +260°C/metal braiding
x	x	x	397	-50 to +350°C/metal braiding
				(3) Measuring insert
x	x	x	1001	1 x Pt100 in 3-wire circuit
x	x	x	1003	1 x Pt100 in 2-wire circuit
x	x	x	2003	2 x Pt100 in 2-wire circuit
				(4) Tolerance class to EN 60 751
x	x	x	1	Class B (standard)
x	x	x	2	Class A
				(5) Sheath diameter D in mm
x	x		6	6mm
x		x	8	8mm
				(6) Fitting length EL in mm
		x	85	20 - 85mm
x			175	20 - 175mm
	x		185	29 - 185mm
				(7) Connecting cable end
x	x	x	03	bare cable ends
x	x	x	11	ferrules to DIN 46 228 Part 4 (standard)
x	x	x	13	receptacle 6.3 to DIN 46 247
x	x	x	80	multipole connector (please specify type in plain text)
				(8) Connecting cable length AL in mm (500≤ AL ≤500000)
x	x	x	2500	2500mm
x	x	x	...	please specify in plain text (500mm steps)
				(9) Extra codes
x	x	x	000	no extra code
x	x	x	302	bayonet lock 15mm dia.
x	x	x	303	bayonet lock 16mm dia.
x	x	x	317	shielded connecting cable

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)	
Order code		-		-		-		-		-		-		-		/		,...
Order example	902190/10	-	397	-	1003	-	1	-	8	-	175	-	11	-	2500	/	000[1]	

Note: Bayonet sockets, Data Sheet 90.9725

Stock versions

(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)	Sales No.
902190/10	-	397	-	1003	-	1	-	8	-	175	-	11	-	2500	/	317	90/00055797
902190/10	-	388	-	1003	-	1	-	6	-	175	-	11	-	2500	/	317	90/00055798
902190/20	-	388	-	1003	-	1	-	6	-	185	-	13	-	2500	/	317	90/00055808

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