ELECTRONICS
REGULATION
MEASUREMENT
AUTOMATION

Technical data

Push-in temperature probes with bayonet lock

TU

ORDER NUMBERS
- TUx6.24.0x1x
- TU36.24.0x13
- TUx8.24.2x1x
- TU39.24.0x13
- TUxA.xx.x1x

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Hrvatska



Basic characteristic:

- Operating temperature < 400 °C
- Connection cable (Cu- 2 x ∅ 0.35 or Fe-CuNi 2 x 0.25)
- Pt100 temperature sensor according to DIN EN 60751
- Thermocouples according to DIN EN 60584 ili DIN 43710

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1 DESCRIPTION

Push-in temperature probes with bayonet lock are preferred for measuring temperatures in bores and pipes made in solids (bearings on motors or machines and moulding tools, for example in the plastics industry).
Because of their shape (∅ 6mm and spring with lock nut) they can be used in many aplications with little place. Spring with movable lock nut allows us adaption to different borehole lengths. Length can be adapted by rotating the bayonet lock.
Bayonet locks are available in the diameter (∅14 mm).
The PT100 temperature sensor are according to EN 60 751, 2-wire and 3 wire.
Thermocouples are according to DIN EN 60584 ili DIN 43710.

2 TECHNICAL DATA

2.1 PUSH-IN RTD TEMPERATURE PROBES WITH BAYONET LOCK

Connection	Flexible cable CU- 2 x ∅ 0.35
Measuring element	Pt 100
	Pt 1000
Sheath tube	Stainless steel
	W.Nr.1.4301
Operating temperature	0 - 200 °C silicon cable
	0 - 300 °C PTFE cable
	0 - 400 °C with glass fibers and shield
Standard lenghts [L]	L = 1500 mm
	L = 2500 mm
Dimensions	Bayonet lock ∅ 14 mm
	Spring L = 200 mm
Note	Bayonet adaptor on request --stand 3/8"G, option (M14x1.5 and 1/4"G)

2.2 PUSH-IN THERMOCOUPLE PROBES WITH BAYONET LOCK

Connection	Flexible cable Fe-CuNi 2 x ∅ 0.25 with shield
Measuring element	Fe-CuNi
Sheath tube	Stainless steel
	W.Nr.1.4301
Operating temperature	0 - 400 °C with glass fibers and shield
Standard lenghts [L]	L = 1500 mm
	L = 2500 mm
Dimensions	Bayonet lock ∅ 14 mm
	Spring L = 200 mm
Note	Bayonet adaptor on request --stand 3/8"G, option (M14x1.5 and 1/4"G)

2.3 PUSH-IN TEMPERATURE PROBES WITH SCREW M10

Connection	Flexible cable with shield	
	CU- 2 x ∅ 0.35	for Pt 100 i Pt 1000
	Fe-CuNi 2 x 0.25	for Fe-CuNi
Measuring element	Pt 100	
	Pt 1000	
	Fe-CuNi	
Sheath tube	Stainless steel	
	W.Nr.1.4301	
Process connection	Screw M10 x 1	
Operating temperature	Za Pt100 i Pt1000	0 - 200 °C silicon cable
		0 - 300 °C PTFE cable
		0 - 400 °C with glass fibers and shield
	Fe-CuNi	0 - 400 °C with glass fibers and shield
Standard lenghts [L]	L = 1500 mm	
	L = 2500 mm	

2.4 ANGLE PUSH-IN THERMOCOUPLE PROBES WITH SCREW M10

Connection	Flexible cable with shield Fe-CuNi 2 x 0.25
Measuring element	Fe-CuNi
Sheath tube	Stainless steel
	W.Nr.1.4301
Process connection	Screw M10 x 1
Operating temperature	0 - 400 °C with glass fibers and shield
Standard lenghts [L]	L = 1500 mm
	L = 2500 mm

2.5 PUSH-IN TEMPERATURE PROBES WITHOUT PROCESS CONNECTION

Connection	Flexible cable with shield CU- 2 x ∅ 0.35	for Pt 100 i Pt 1000
	Flexible cable with shield Fe-CuNi 2 x 0.22	for Fe-CuNi
Measuring element	Pt 100 or Pt 1000	
	Fe-CuNi	
Sheath tube	Brass ∅ 4 mm	
	Stainless steel W.Nr.1.4301 ∅ 5, 6 i 8 mm	
Operating temperature	0 - 300 °C for Pt 100 or Pt 1000	
	0 - 400 °C for Fe-CuNi	
Standard lenghts [L]	L = 1500 mm	
	L = 2500 mm	
	L1 = 40 mm	
	L1 = 60 mm	

3 ORDER SPECIFICATIONS

3.1 PUSH-IN RTD TEMPERATURE PROBES WITH BAYONET LOCK

Push-in temperature probes	TU	x	x	x	x	x	x	x	x
Measuring element	Pt 100	1							
	Pt 1000	2							
Process connection	Bayonet	6							
Sheath tube	W.Nr.1.4301	2							
Sheath tube diameter	8 mm	4							
Sheath tube length	According to drawing	0							
Cable length	1500 mm	2							
	2000 mm	3							
Number of measuring elements	single	1							
Operating temperature	200 °C	1							
	300 °C	2							
	400 °C	3							

3.2 PUSH-IN THERMOCOUPLE PROBES WITH BAYONET LOCK

Push-in temperature probes	TU	x	x	x	x	x	x	x	x
Measuring element	Fe-CuNi	3							
Process connection	Bayonet	6							
Sheath tube	W.Nr.1.4301	2							
Sheath tube diameter	8 mm	4							
Sheath tube length	According to drawing	0							
Cable length	1500 mm	2							
	2000 mm	3							
Number of measuring elements	single	1							
Operating temperature	400 °C	3							

3.3 PUSH-IN TEMPERATURE PROBES WITH SCREW M10

Push-in temperature probes	TU	x	x	x	x	x	x	x	x
Measuring element	Pt 100	1							
	Pt 1000	2							
	Fe-CuNi	3							
Process connection	M10	8							
Sheath tube	W.Nr.1.4301	2							
Sheath tube diameter	8 mm	4							
Sheath tube length	60 mm	2							
Cable length	1500 mm	2							
	2000 mm	3							
Number of measuring elements	single	1							
Operating temperature	200 °C	1							
	300 °C	2							
	400 °C	3							

3.4 ANGLE PUSH-IN THERMOCOUPLE PROBES WITH SCREW M10

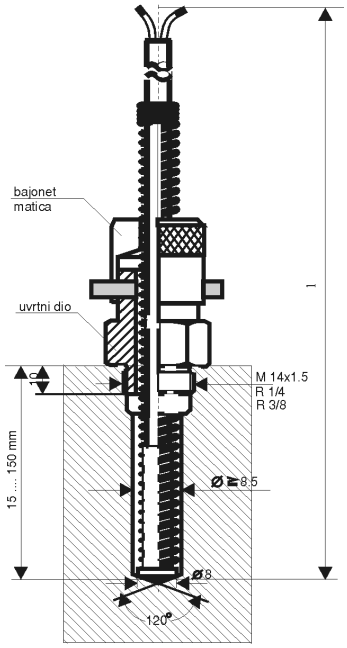
Push-in temperature probes	TU	x	x	x	x	x	x	x	x
Measuring element	Fe-CuNi	3							
Process connection	Angeled M10	9							
Sheath tube	W.Nr.1.4301	2							
Sheath tube diameter	8 mm	4							
Sheath tube length	According to drawing	0							
Cable length	1500 mm	2							
	2000 mm	3							
Number of measuring elements	single	1							
Operating temperature	400 °C	3							

3.5 PUSH-IN TEMPERATURE PROBES WITHOUT PROCESS CONNECTION

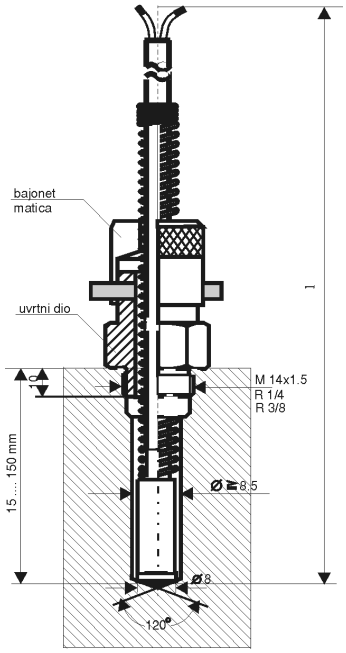
Push-in temperature probes	TU	x	x	x	x	x	x	x	x
Measuring element	Pt 100	1							
	Pt 1000	2							
	Fe-CuNi	3							
Process connection	Without conn.	A							
Sheath tube	W.Nr.1.4301		2						
	Brass		3						
Sheath tube diameter	4 mm			1					
	5 mm			2					
	6 mm			3					
	8 mm			4					
Sheath tube length	40 mm				1				
	60 mm				2				
Cable length	1500 mm					2			
	2000 mm					3			
Number of measuring elements	single						1		
Operating temperature	300 °C								2
	400 °C								3

4 DIMESIONS

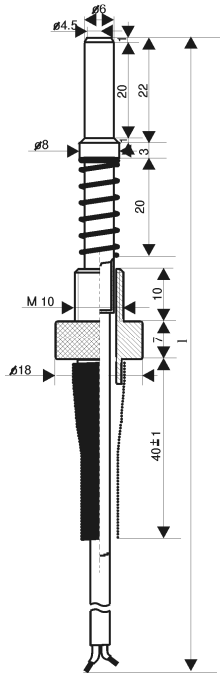
Push-in RTD temperature probes with bayonet lock



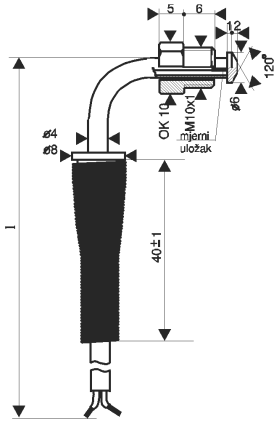
Push-in thermocouple probes with bayonet lock



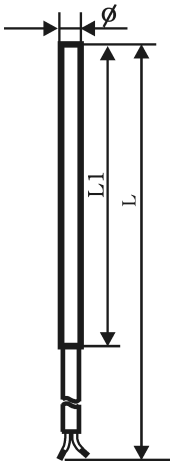
Push-in temperature probes with screw M10



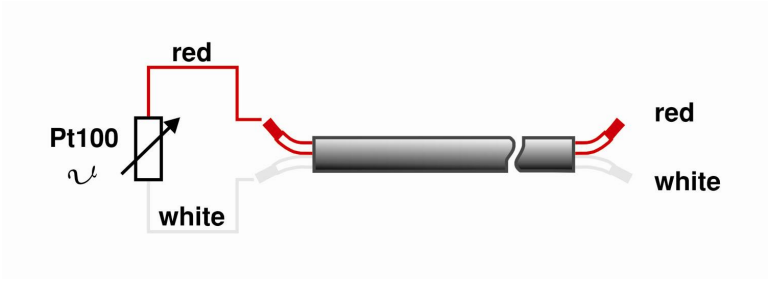
Angle push-in thermocouple probes with screw M10

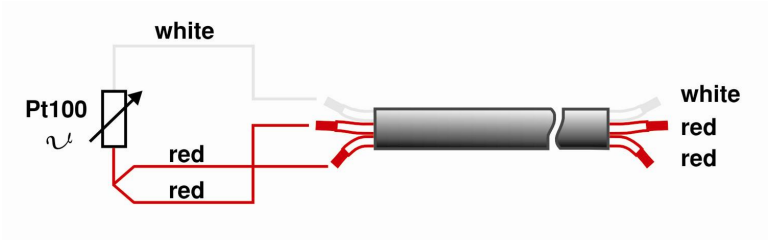


Push-in temperature probes without process connection



5 CONNECTION





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