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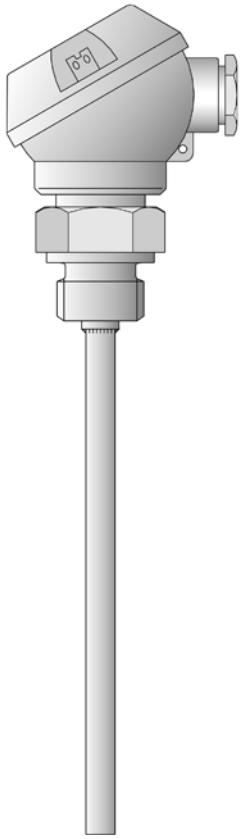
Screw-in thermocouples with terminal head form J



- **for temperatures from -200 to +800°C**
- **As single or double thermocouples**
- **Structure isolated or connected with thermowell**
- **Protection class IP65**

Screw-in thermocouples are preferentially used for measuring temperatures in liquids and gases. A decisive selection criterion is the reliable sealing feature of this installation type with vacuum and with overpressure. The application areas are, among others, in the HVAC, kiln and apparatus engineering sector.

The measuring insert is equipped with thermal pairs (thermocouples) according to DIN EN 60 584 and/or DIN 43 710 as a standard. Versions with two thermocouples are also possible.

Technical Data

Terminal head	Form J, die-cast aluminum, M 16x1.5; IP65, ambient temperature -40 to +100°C
Process connection	thread, stainless steel 1.4571
Protection tube	Stainless steel 1.4571, Ø 6mm
Measuring insert	Insulated structure: 1 x Fe-CuNi „J“, DIN EN 60 584, cl. 2, operating temperature -200 to +600°C 1 x Fe-CuNi „L“, DIN 43 710, cl. 2, operating temperature -200 to +600°C 1 x NiCr-Ni „K“, DIN EN 60 584, cl. 2, operating temperature -200 to +800°C 2 x Fe-CuNi „J“, DIN EN 60 584, cl. 2, operating temperature -200 to +600°C 2 x Fe-CuNi „L“, DIN 43 710, cl. 2, operating temperature -200 to +600°C 2 x NiCr-Ni „K“, DIN EN 60 584, cl. 2, operating temperature -200 to +800°C
Accessories	Thermowell, Data Sheet 90.9721

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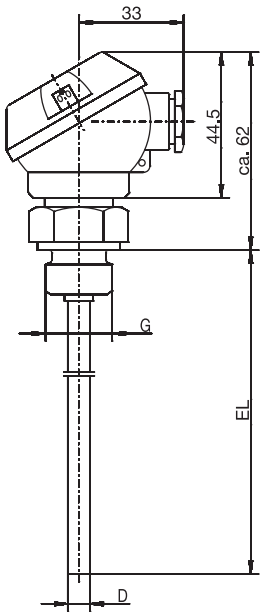
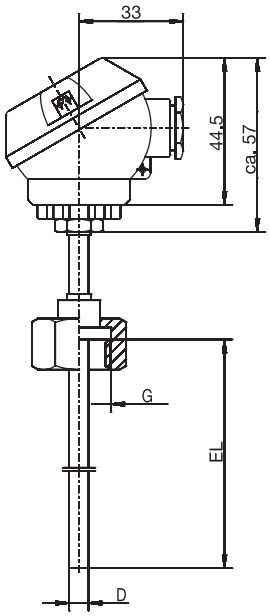
Dimensions



Type 901030/10



Type 901030/20

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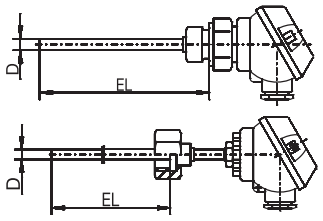
Order details: Screw-in thermocouples with terminal head form J

(1) Basic type

		901030/10	Screw-in thermocouple with continuous thermowell
		901030/20	Screw-in thermocouple with continuous thermowell and union nut



			(2) Operating temperature in °C
x	x	130	-200 to +400°C
x	x	150	-200 to +600°C
x	x	165	-200 to +800°C
			(3) Measuring insert
x	x	1040	1 x Fe-CuNi „J“
x	x	1042	1 x Fe-CuNi „L“
x	x	1043	1 x NiCr-Ni „K“
x	x	2040	2 x Fe-CuNi „J“
x	x	2042	2 x Fe-CuNi „L“
x	x	2043	2 x NiCr-Ni „K“
			(4) Protection tube diameter D in mm
x	x	6	Ø 6mm
			(5) Fitting length EL in mm (50 ≤ EL ≤ 600, EL ≥ 150 for basic type 901030/20)
x		50	50mm
x		75	75mm
x		100	100mm
x	x	150	150mm
x	x	200	200mm
x	x	250	250mm
x	x	300	300mm
x	x	...	please specify in plain text (50mm steps)
			(6) Process connection
x		102	Screw connection (thread) G 1/4
x		103	Screw connection (thread) G 3/8
x		104	Screw connection (thread) G 1/2
	x	164	Union nut G 1/2
	x	165	Union nut G 3/4
			(7) Extra codes
x	x	000	None

	(1)		(2)		(3)		(4)		(5)		(6)		(7)
Order code		-		-		-		-		-		/	
Order example	901030/10	-	130	-	1042	-	6	-	100	-	104	/	000

Note: Thermowell, Data Sheet 90.9721

Stock versions

(1)		(2)		(3)		(4)		(5)		(6)		(7)	Part No.
901030/10	-	150	-	1042	-	6	-	100	-	104	/	000	90/00407109
901030/10	-	150	-	1042	-	6	-	200	-	104	/	000	90/00520186