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JUMO Process Control, Inc.

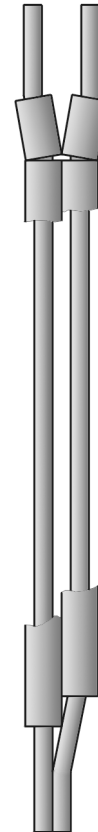
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Thermocouples to DIN 43 732

- for temperatures up to +1600°C
- standardized voltage tables for thermocouples to EN 60 584, Part 1 and DIN 43 710
- for push-in thermocouples to DIN 43 733

These thermocouples are intended as replacement elements for thermocouples to DIN 43 733. The thermocouples can also be used for direct temperature measurement in special applications. The maximum temperatures specified can only be taken as guide values for the limit with continuous use in air that does not contain harmful gases. The thermocouple must not be mechanically stressed during operation.



Technical data

Thermocouples

	Color coding + (positive limb)	- (negative limb)
Fe-Con L	red	blue
NiCr-Ni K	green	white
Pt10Rh-Pt S	orange	white
Pt30Rh-Pt6Rh B	gray	white

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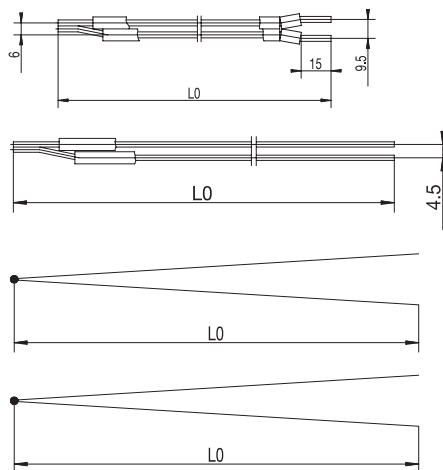
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Order details: Thermocouples to DIN 43 732

(1) Basic version

909744/10	Thermocouple to DIN 43 732, Form A
909744/20	Thermocouple to DIN 43 732, Form B
909744/30	Thermocouple to DIN 43 732, Form C
909744/40	Thermocouple to DIN 43 732, Form D



(2) Measuring insert/operating temperature in °C²

x	x	1042	1 x Fe-Con L, -200 to +600°C (Form B); -200 to +700°C (Form A)
x	x	1043	1 x NiCr-Ni K, -200 to +900°C (Form B); -200 to +1000°C (Form A)
	x	1044	1 x Pt10Rh-Pt S, -50 to +1300°C
	x	1046	1 x Pt30Rh-Pt6Rh B, -50 to +1600°C

(3) Limb diameter D in mm

	x	0.35	0.35 mm
	x	0.5	0.5 mm
	x	1	1 mm (only in conjunction with insert 1 x Fe-Con L)
	x	1.38	1.38 mm (only in conjunction with insert 1 x NiCr-Ni K)
x		3	3 mm

(4) Overall length L0 in mm/NL¹

		Weight in g		
		Type S ø 0.35	Type S ø 0.5	Type B ø 0.5
x		220	220mm / 180mm	
	x	240	240mm / 180mm	1.00g - -
	x	260	260mm / 180mm	- 2.20g 2.11g
x		290	290mm / 250mm	
	x	310	310mm / 250mm	1.28g - -
	x	330	330mm / 250mm	- 2.78g 2.66g
	x	395	395mm / 355mm	
	x	415	415mm / 355mm	1.71g - -
	x	435	435mm / 355mm	- 3.64g 3.49g
x		540	540mm / 500mm	
	x	560	560mm / 500mm	2.29g - -
	x	580	580mm / 500mm	- 4.84g 4.63g
x		750	750mm / 710mm	
	x	790	790mm / 710mm	3.22g 6.57g 6.28g
x		1040	1040mm / 1000mm	
	x	1080	1080mm / 1000mm	4.39g 8.95g 8.57g
x		1440	1440mm / 1400mm	
	x	1480	1480mm / 1400mm	6.00g 12.24g 11.72g
x		2040	2040mm / 2000mm	
x		...	other lengths on request	

Order code (1) - (2) - (3) - (4)
Order example 909744/10 - 1042 - 3 - 540

1. for thermocouples to DIN 43 733 with nominal length NL in mm
 2. The operating temperature refers to "open" thermocouples as per data sheet.
 Higher temperatures can be achieved when they are used inside a protection tube, Data Sheets 90.1... ff.