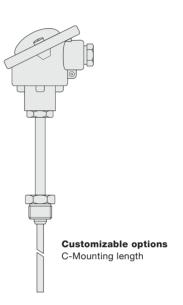
### Thermocouple Type J with B-Head - HL

### Article no.: 803021 6111

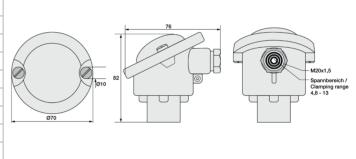
Our screw-in thermocouple type J with B-head - HL is suitable for use in the high temperature range up to 750 °C and is installed via the G1/2 " thread and the neck tube. The B-head with the protection sleeve and neck tube is designed according to DIN43772 Form 2G and has a replaceable measuring insert. To configure your screw-in thermocouple for your measuring task, simply select the required configuration features and send us the order code.



<b>General Information</b>	
Measuring range	-40 °C to +750 °C
Perm. (°C) conn. head	-40 °C to +100 °C
Accuracy	-40 °C to +375 °C: ±1,5 °C   375 °C to 750 °C: ±0,004  t  according to DIN IEC 60584 Class 1
Supply and output	
Measuring element	Thermocouple Type J
Measuring point	Measuring point isolated
Measurement signal	Thermovoltage
Ambient conditions	
Protection class	IP54 according DIN 60529
Humidity and moisture condensation resistance	according to application-specific qualification
Certificates and Standar	ds
Standards	DIN EN 61326-1:2013   DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU   2014/30/EU



Connection head	
Design	Form B
Material	Aluminium
W/H/Ø (mm)	76/82/70
Color	RAL 9006 aluminium silver
Cable gland head	with strain relief
Cable electricial connection	Screw terminals max. 2,5mm <sup>2</sup>
Clamping range (mm)	4,8 to 13
Ambient temperature max	+100 °C
Sensor unit	Replaceable



Screw-in thread		Your order c	ode	C - Mou	nting length	
Material	Stainless steel 1.4571   316TI	Article no.		Code	Length (mm)	
Length (mm)	14			C0050	50 <sup>1</sup>	
Process connection	G1/2 "				C0100	1001}
Wrench size	27					
Protection sleeve		803021 6111		C0200	2001}	
Material	Stainless steel 1.4571   316TI	6030216111	C	C0250	2501}	
Mounting length (mm)	please choose			C0300	3001}	
Ø (mm)	9 <sup>2</sup>			C0400	4001}	
Length neck tube (mm)	80			C0500	500 <sup>1</sup>	

Other mounting lengths on request  $\mid$  <sup>1)</sup>Tolerance  $\pm$  1%  $\mid$  <sup>2)</sup> Tolerance  $\pm$  0,1 mm

#### **Testo Sensor GmbH**

**J** +49 7653 96597-71

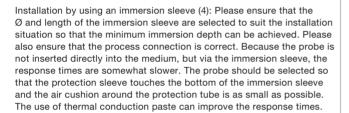
Managing Director: Prof. Burkart Knospe, Martin Arndt, Timo Löffler

Testo-Straße 1 D-79853 Lenzkirch webshop@testo-sensor.de

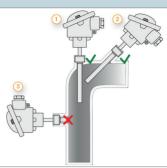
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683

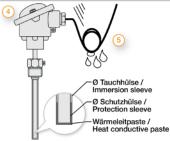
#### Important assembly advices

Measuring errors can occur due to heat dissipation to the environment. To keep these as small as possible, we recommend immersing the protection sleeve of your temperature probe as deep as possible into the medium to be measured during installation. The optimum installation depth should be 10-15 times the  $\varnothing$  of the protection sleeve or, if an immersion sleeve is used, the  $\varnothing$  of the immersion sleeve. When installing in pipes whose  $\varnothing$  does not have a sufficiently deep installation depth, you should either install the probe at an angle or in a pipe elbow. Make sure that you have enough space so that the probe can be removed again. 1) Installation with sufficient installation depth 2) Installation at an angle with small pipe  $\varnothing$  3) Not like this: Minimum installation depth not reached



Please lay the cable so that no water can penetrate the probe and with a spare loop (4). This allows you to extend the probe without disconnecting the electrical connection.



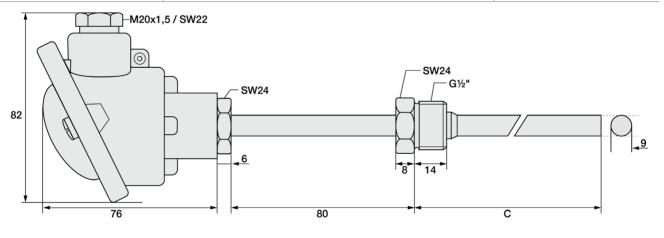


#### **Technical drawing**

Customizable options

C - Mounting length

All dimensions in mm



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### Matching accessories: Thermocouple cables

Details of accessories can be found on our website.

Thermocou	Thermocouple cables										
Please select your desired cable first.											
Order code	Туре	Color	IP	From (°C)¹}	To (°C)¹}	Outside material	Material strand	Ø (mm) <sup>2}</sup>	Q (mm²)	Color strand	Ω / m <sup>4}</sup>
809300 1	Thermocouple cable	Type J <sup>3}</sup>	IP67	-30	+90	PVC	PVC	3,8	0,22	bk, wt	2,50
809310 1	Thermocouple cable	Type J <sup>3}</sup>	IP67	-50	+180	Silicone	FEP	3,6	0,22	bk, wt	2,50

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | ¹¹per. °C range | ²¹Tolerance ± 0.2 mm | ³¹ Color according to IEC 584 | ⁴¹per thermocouple

Now please select the length and add the code to the article no. of the cable.									
Length (m)	1	2	5	10	20				
Code	<b>Code</b> 010 020 050 100 200								

Please append these digits to the part number of your desired cable.

### Matching accessories: Connector

Connector						
Picture	Code	Feature	Picture	Code	Feature	
	809140 1000	Mini-TC connector Type J bk		809100 1000	Mini-TC coupling Type J bk	
	809150 1000	TC connector Type J bk	•	809110 1000	TC coupling Type J bk	

Other connectors available on request

## Matching accessories: Heat-conducting paste

	Article no.	809540 1000			
	Content	10 ml >2.5 W/mK			
	Thermal conductivity				
	Min / Max °C	-30 °C to +280 °C			
	Thermal resistance < 0.126				

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# Matching accessories: Immersion sleeves

Immersion sleeves				Please select Ø and mounting length and append				
Picture	Immersion sleeve G1/2 " with internal thread			the codes to your order code.				
	Article no.	809520 3XXX		Ø Inside				
	Temp. Max	+600 °C	Code	/ Outside (mm)	Code	ML (mm)		
	pressure proof until	40 bar	1	6,5 / 9	03	30		
	Material	Stainless steel 1.4571   316TI	2	7,5 / 10	08	80		
	Process connection	G1/2 "	3	8,5 / 11	13	130		
	Wrench size	27	4	9,5 / 12	18	180		
	Screw-in thread	G1/2 "			23	230		
	Coope of delivery	Immersion sleeve, packed			28	280		
	Scope of delivery	in PE bag			38	380		
	Your order code	809520 3	_					

#### **Technical drawing Immersion sleeves**

