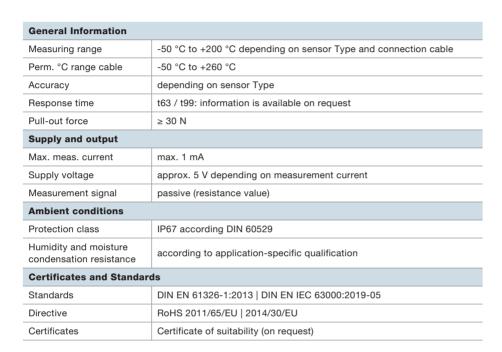


Cable probe fast response with PFA cable

Article no.: 803571 1011

The fast response cable probe uses a protection sleeve that tapers from a diameter of 6 mm to a diameter of 3 mm. This allows it to be used at smaller measuring points, achieves a fast response time and is waterproof. (IP67) To order your cable temperature probe, select the required configuration and send us the order code.



A - Measuring element							
Code	Sensor	Accuracy / Tolerance resistance	min ^{2}}	max ^{2}}			
A012	Pt100	CI. B dT = $\pm (0.30 \text{ °C} + 0.005 t)^{1}$	-50 °C	+400 °C			
A011	Pt100	CI. A dT = $\pm (0.15 ^{\circ}\text{C} + 0.002 t)^{1}$	-50 °C	+300 °C			
A013	Pt100	1/3 CI. B dT = $\pm (1/3 \cdot (0.30 \text{ °C} + 0.005 t))^{1}$	-50 °C	+200 °C			
A014	Pt100	$1/10 \text{ CI. B dT} = \pm (1/10 \cdot (0.30 \text{ °C} + 0.005 t))^{1}$	±0 °C	+100 °C			
A022	Pt500	CI. B dT = $\pm (0.30 \text{ °C} + 0.005 t)^{1}$	-70 °C	+500 °C			
A032	Pt1000	CI. B dT = $\pm (0.30 \text{ °C} + 0.005 t)^{1}$	-50 °C	+400 °C			
A031	Pt1000	CI. A dT = $\pm (0.15 \text{ °C} + 0.002 t)^{1}$	-50 °C	+300 °C			
A106	NTC 5 kOhm	R25 = 5 KOhm ±1 %	-40 °C	+150 °C			

¹⁾according to IEC 751 / EN 60751 | ²⁾ Perm. range °C | Please note that the measuring range depends on the measuring element and the connection cable. | Detailed information and the characteristics can be found in our download area.



Customizable options

- A Measuring element
- B Connection Type
- E Material connection cable
- F Length connection cable
- G Connector
- H Bend protection

B - Connection Type						
Code	Conn. Type					
B2	2-Wire (2W)					
B3	3-Wire (3W)					
D/I	1 Miro (1)M)					

Possible connections						
Sensor 2W 3W 4W						
Pt	✓	~	~			
NTC	V					



Protection sleeve					
Material	Stainless steel 1.4404 316L	- All			
Length (mm)	55,0 / 74				
Ø (mm)	3 / 61}				

other protective sleeve lengths and Ø available on request | 1| Tolerance \pm 0,1 mm

E - Cable	E - Cable material and configuration connection cable											
Picture	Code	IP	Connection Type	Color	From (°C) ^{1}}	To (°C) ^{1}}	Outside material	Material strand	Color strand	Ø (mm) ^{2}}	Q (mm²) ^{3}}	Ω / m ^{4}}
	E5500	IP67	2-Wire	white	-50	+260	PFA	PFA	rd, wt	2,4	0,22	0,09
	E5501	IP67	3-Wire	white	-50	+260	PFA	PFA	rd, wt, rd	2,4	0,22	0,09
	E5503	IP67	4-Wire	white	-50	+260	PFA	PFA	rd, wt, rd, wt	2,7	0,22	0,09

Insulation resistance: \geq 100 MOhm at min. 100 VDC | ¹⁾Perm. range °C | ²⁾Tolerance \pm 0,2 mm | ³⁾ Tolerance \pm 0,03 mm² | ⁴⁾ per single strand | IP67

F - Length								
Code	F010	F020	F030	F040	F050	F100	F150	F200
m	1	2	3	4	5	10	15	20

Other lengths on request

G - Connector				
	Code	Feature		
	G01	Insulated end ferrules (50 mm)		

H - Bend protection								
Length (mm)		Material Code		Feature				
	50	Stainless steel spring	H0	Without (Standard)				
	50	1.4310 SUS 302	H1	Metal bend protection				

Your order code								
Article no.	Measuring element	Connection Type	Material connection cable	Length connection cable	Connector	Bend protection		
803571 1011	A	B	E	F	G	H		



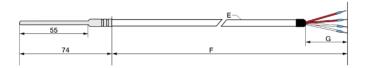
Technical drawing Customizable options A - Measuring element B - Connection Type E - Material connection cable G - Connector H - Bend protection All dimensions in mm



3-Wire version



4-Wire version



Delivery and Assembly

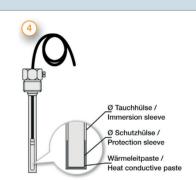
Delivery and Packaging

Probe, seperatly packaged in PE bag

Important assembly advices



Installation by means of compression fitting: Please tighten the union nut of the compression fitting by hand as far as it will go (clearly noticeable). For compression fittings with PTFE pressure ring, please make a 1/4 turn with a wrench suitable for the width across flats. These compression fittings can be used several times in this way. In the case of compression fittings with stainless steel cutting ring, the compression fitting connects to the protection tube. This connection is pressure resistant up to 40 bar. However, the compression fitting can only be used once. It must also be tightened more firmly. Please tighten it with 1 3/4 turns.



Mounting by using an immersion sleeve (4): Please note that the Ø and the length of the immersion sleeve must be selected to suit the installation situation so that the minimum immersion depth can be achieved. Since the probe is not inserted directly into the medium, but via the immersion sleeve, the response times are somewhat slower. The probe should be selected in such a way that the protection sleeve touches the bottom of the immersion sleeve and that the air cushion around the protection sleeve is as small as possible. The use of thermal paste can improve the response times. Please lay the cable with reserve loop (4) and in such a way that no water can penetrate the sensor head. This allows you to extend the probe without disconnecting the electrical connection.



Matching accessories: Immersion sleeves

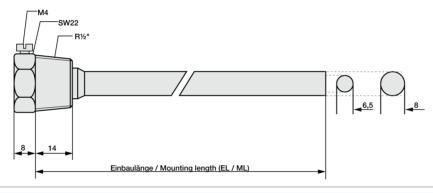
Brass immersion sleeve R1/2 "



Article no.	809520 10XX	Code	ML (mm)
Temp. max	+150 °C	05	50
Pressure proof up to	10 bar	10	100
Material	Nickel plated	15	150
Process connection	R1/2 "	20	200
Wrench size	22	25	250
Ø Inside / Outside (mm)	6,5 / 8	30	300
Scope of delivery	Immersion sleeve, packed in PE bag	40	400
Order code	809520 10		

Please attach the code for the mounting length.

Technical drawing



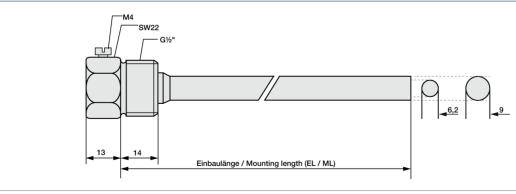
Stainless steel immersion sleeve G1/2 "



Article no.	809520 20XX	Code	ML (mm)
Temp. max	+600 °C	05	50
Pressure proof up to	40 bar	10	100
Material	Stainless steel 1.4571 316TI	15	150
Process connection	G1/2 "	20	200
Wrench size	22	25	250
Ø Inside / Outside (mm)	6,2 / 9	30	300
Scope of delivery	Immersion sleeve, packed in PE bag	40	300
Your order code	809520 20		

Please attach the code for the mounting length.

Technical drawing





Matching accessories: Immersion sleeves

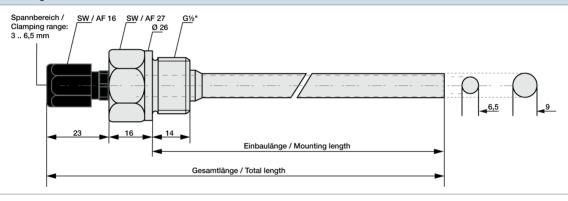
Immersion sleeve G1/2 " with cable gland



Article no.	809520 60XX	Compression	Code	ML (mm)	
Temp. max	+600 °C	Temp. max	100 °C	05	50
pressure proof until	40 bar	Material	Plastic	10	100
Material	Stainless steel 1.4571 316TI	Screw	M12 x 1,5	15	150
Process connection	G1/2 "	Clamping	3 to 6,5	20	200
Wrench size	22	range (mm)		25	250
Coope of delivery	Immersion sleeve, packed		strain	30	300
Scope of delivery	in PE bag	Cable gland	relief	40	400
Your order code	809520 60				

Please attach the code for the mounting length.

Technical drawing





Matching accessories: Compression fittings

Compression fitting with PTFE clamping ring

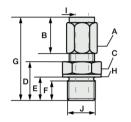
Compression fittings with PTFE clamping ring can be used several times. They are only pressure-tight up to 10 bar. For assembly, please tighten the connecting nut of the compression fitting by hand as far as it will go (clearly noticeable) by hand. With a wrench suitable for the width across flats, please make a 1/4 turn for compression fittings with PTFE pressure ring.



Article no.	809610 2XXX	Code	I - Ø Inside (mm)	Code	J - Process connection
Temp. max	+260 °C	0	1	27	M6x1 ¹ }
Pressure proof up to	10 bar	1	1,5	28	M8x1 ¹ }
Material	Stainless steel 1.4571 316TI	3	3	22	M10x1
Material clamping ring	PTFE	6	6	14	G1/8 "
Construction of the control of the c				12	G1/4 "
Scope of delivery	Compression fitting, packed in PE bag			11	G1/2 "
Your order code	809610 2				

Append the code for Ø Inside & process connection to the article no. | 1) not available for Ø Inside (I) 6 mm

Dimensions for technical drawing



ı	J	A	В	С	D	E	F	G	н
1	M6x1 ¹	SW10	13	SW12	13	9	8	31	Ø10
1,5	M8x1 ^{1}}	SW10	13	SW12	13,5	9,5	8	31	Ø11,8
3	M10x1	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW14	13,5	9,5	8	32	Ø13,8
6	G1/8 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW14	13,5	9,5	8	32	Ø13,8
	G1/4 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW19	20	14	12	38,5	Ø18
	G1/2 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW27	23	17	14	38,5	Ø26

All dimensions in mm | 13 not available for Ø Inner (I) 6 mm

Compression fitting with stainless steel cutting ring

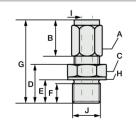
In compression fittings with stainless steel cutting ring, the compression fitting connects with the protective sleeve. This connection is pressure-resistant up to 40 bar. Therefore, these compression fittings can also only be used once and must be tightened more firmly. For assembly, please tighten the union nut of the compression fitting by hand as far as it will go (clearly noticeable). With a wrench suitable for the wrench size, please make 1 3/4 turns for compression fittings with stainless steel cutting ring.



Article no.	809610 1XXX	Code	I - Ø Inside (mm)	Code	J - Process connection
Temp. max	+800 °C	1	1,5	27	M6x1 ¹
Pressure proof up to	40 bar	3	3	28	M8x1 ¹
Material	Stainless steel 1.4571 316TI	6	6	22	M10x1
Material clamping ring	Stainless steel 1.4571 316TI			14	G1/8 "
0	6 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				G1/4 "
Scope of delivery Cutting ring screw fitting, packed in PE bag					G1/2 "
Your order code	809610 1				

Append the code for \varnothing Inside & process connection to the article no. | 1) not available for \varnothing Inside (I) 6 mm

Dimensions for technical drawing



/ KS / 28.07.2022

9	••••								
1	J	A	В	С	D	E	F	G	н
1,5	M6x1 ^{1}}	SW10	13	SW12	13	9	8	31	Ø10
3	M8x1 ^{1}}	SW10	13	SW12	13,5	9,5	8	31	Ø11,8
6	M10x1	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW14	13,5	9,5	8	32	Ø13,8
	G1/8 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW14	13,5	9,5	8	32	Ø13,8
	G1/4 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW19	20	14	12	38,5	Ø18
	G1/2 "	Ø 1,5 & 3: SW10 Ø 6: SW12	13	SW27	23	17	14	38,5	Ø26

All dimensions in mm | 13 not available for Ø Inner (I) 6 mm



Matching accessories: Heat-conducting paste

Heat-conducting paste				
Article no.	809540 1000			
Content	10 ml			
Thermal conductivity	>2.5 W/mK			
Min / Max °C				
Thermal resistance	< 0.126			