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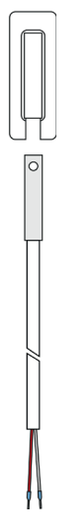
Contact probe self-adhesive

Article no.: 802010 1011

Our surface probes are used for temperature measurements on smooth surfaces in machine and apparatus construction. This probe can be attached via a screw connection or the self-adhesive cap. To order your probe, select your configuration and send us the order code.

General Information	
Measuring range	-30 °C to +80 °C depending on sensor Type and connection cable
Perm. °C-Range cap	to 100 °C
Accuracy	depending on sensor Type
Response time	t63 / t99: information is available on request
Supply and output	
Max. meas. current	max. 1 mA
Supply voltage	approx. 5 V depending on measurement current
Measurement signal	passive (resistance value)
Ambient conditions	
Protection class	IP54 according DIN 60529
Humidity and moisture condensation resistance	according to application-specific qualification
Certificates and Standards	
Standards	DIN EN 61326-1:2013 | DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU | 2014/30/EU
Certificates	Certificate of suitability (on request)



Customizable options
A - Measuring element
B - Connection Type
E - Material connection cable
F - Length connection cable
G - Connector

A - Measuring element				
Code	**Sensor**	**Accuracy / Tolerance resistance**	**min[2)]**	**max[2)]**
A012	Pt100	Cl. B dT = ±(0,30 °C + 0,005|t|)[1)]	-50 °C	+400 °C
A011	Pt100	Cl. A dT = ±(0,15 °C + 0,002|t|)[1)]	-50 °C	+300 °C
A022	Pt500	Cl. B dT = ±(0,30 °C + 0,005|t|)[1)]	-70 °C	+500 °C
A032	Pt1000	Cl. B dT = ±(0,30 °C + 0,005|t|)[1)]	-50 °C	+400 °C
A031	Pt1000	Cl. A dT = ±(0,15 °C + 0,002|t|)[1)]	-50 °C	+300 °C
A105	NTC 5 kOhm	R25 = 5 KOhm ±1 %	-40 °C	+125 °C
A110	NTC 10 kOhm	R25 = 10 KOhm ±1 %	-40 °C	+125 °C
A120	NTC 20 kOhm	R25 = 20 KOhm ±1 %	-40 °C	+125 °C
A210	Ni1000	-60 °C to 0 °C: dT = ±(0,4 °C + 0,028 · T) | 0 °C to +150 °C: dT = ±(0,4 °C + 0,007 · T)	-60 °C	+150 °C
A323	LM235Z	typical ±1 °C	-40 °C	+125 °C
A421	KTY 81-210	R25 = 2 KOhm ±1 %	-50 °C	+150 °C
A411	KTY 81-110	R25 = 1 KOhm ±1 %	-50 °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 connecting cable. | Detailed information and the characteristics can be found in our download area.

B - Connection Type	
Code	**Conn. Type**
B2	2-Wire (2W)
B3	3-Wire (3W)
B4	4-Wire (4W)

Possible connections			
Sensor	**2W**	**3W**	**4W**
Pt	✓	✓	✓
NTC	✓		
Ni	✓	✓	✓
LM235Z	✓		
KTY	✓		

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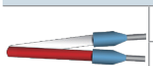
Probe head					
Bild	**Contact body**		**Dimensioning**		**Zeichnung**
	Contact geometry	Square	Length (mm)	30	
			Width (mm)	6	
	Material	Aluminium	Perm. °C-Range cap	to 100 °C	
	We offer other contact bodies on request.				

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]**
	E0003	IP67	2-Wire	white	-30	+80	PVC	PVC	rd, wt	3,4	0,14	0,13
	E0004	IP67	3-Wire	white	-30	+80	PVC	PVC	rd, wt, rd	3,5	0,14	0,13
	E0005	IP67	4-Wire	white	-30	+80	PVC	PVC	rd, wt, rd, wt	3,5	0,14	0,13

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | [1]Perm. range °C | [2]Tolerance ± 0,2 mm | [3] Tolerance ± 0,03 mm² | [4] per single strand

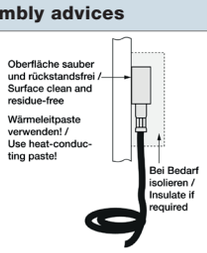
F - Length								
Code	F010	F020	F030	F040	F050	F100	F150	F200
m	1	2	3	4	5	10	15	20

Other lengths on request

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

Your order code					
Article no.	Measuring element	Connection Type	Material connection cable	Length connection cable	Connector
802010 1011	A_____	B_____	E_____	F_____	G_____

Delivery and Assembly	
Assembly instructions	By means of screw fastening or self-adhesive fastening cap (included in delivery)
Delivery and Packaging	Probe, Heat-conducting paste, self-adhesive mounting cap, seperatly packaged in PE bag

Important assembly advices	
	The surface must be brightly polished and free of residues. Please attach the probe firmly. Please ensure a good thermal contact. Depending on the requirements, it may be useful to insulate the probe to minimize the influence of the ambient temperature. Please observe the maximum permissible temperatures as specified in the data sheet.

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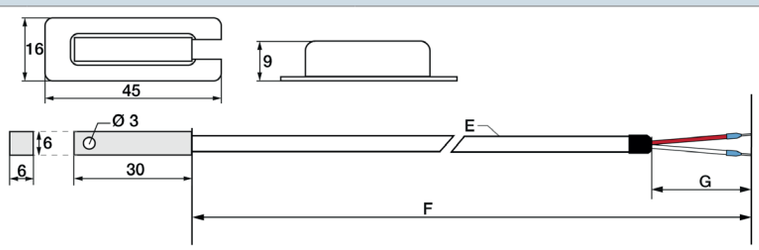
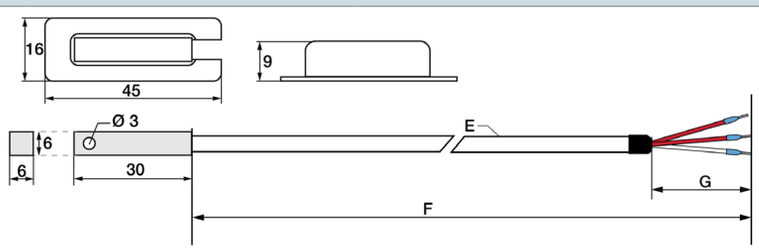
Technical drawing

Customizable options A - Measuring element B - Connection Type	E - Material connection cable F - Length connection cable G - Connector	All dimensions in mm

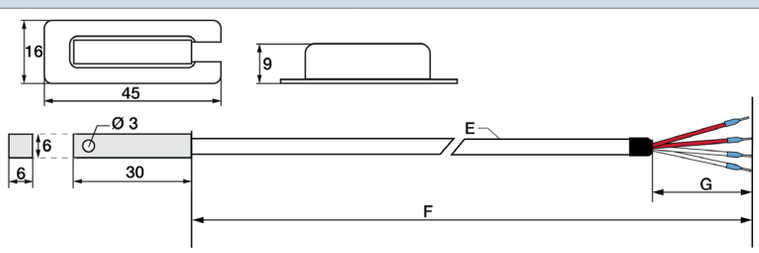
Ausführung 2-Leiter / 2-Wire version



Ausführung 3-Leiter / 3-Wire version



Ausführung 4-Leiter / 4-Wire version



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Matching accessories: Heat-conducting paste

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

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