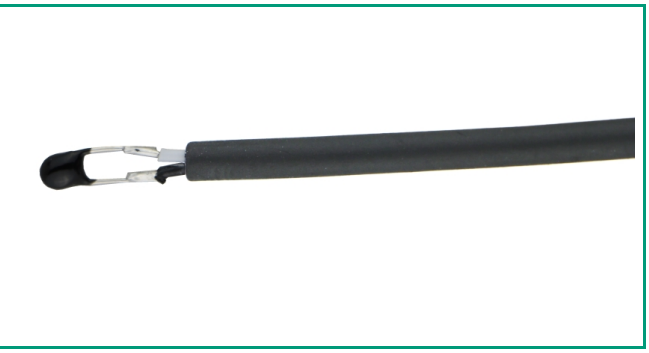
IKE2

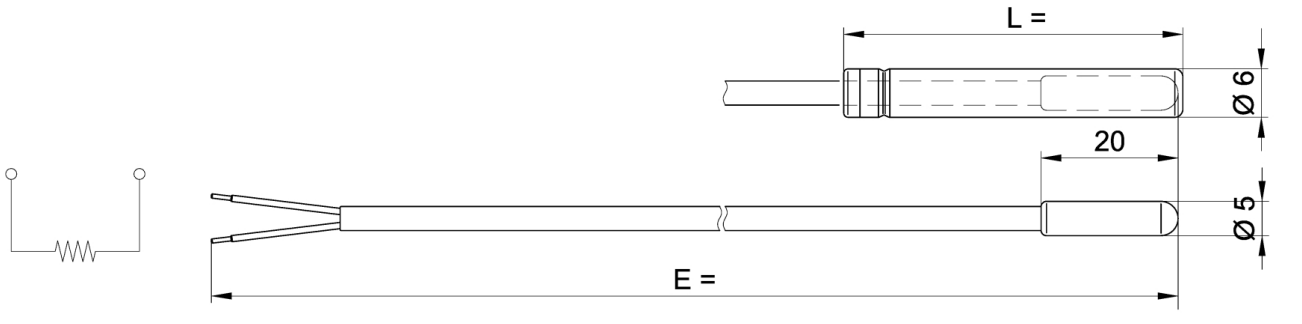
Rev. 0 - 10/06/2022

2-WIRE THERMOPLASTIC RUBBER PROBE

Airtight 2 wire double insulation rubber probe

-Pt100, Pt1000, thermistor (NTC) sensing element
-IP-68 tightness degree
-Suitable for long-time immersion in corrosive liquids
-Available with a stainless steel case





ITALCOPPIE SENSORI srl
Via A. Tonani, 10 - Fraz. S. Giacomo al Campo
26030 Malagnino (CR) - Italy
www.italcoppie.it

WE SENSE TEMPERATURE

TECHNICAL SPECIFICATION

Sensing element	Pt100 Ω @ 0°C Pt1000 Ω @ 0°C NTC R(25°C)=10Kohm ±1%, beta(25/85)=3977 NTC R(25°C)=10Kohm ±1%, beta(25/85)=3435 NTC R(25°C)=10Kohm ±3%, beta(25/85)=3977 NTC R(25°C)=2.7Kohm ±1%, beta(25/85)=3977 NTC R(25°C)=10Kohm, Beta (25/85) =3969, tol ±0.2°C (0-70°C)
Sensing Element configuration	single 2-wire
Accuracy class in accordance to IEC751 (*) (*) Pt 100 cl.A only available with 3 or 4 wires, cl.AA 4 wires only; Pt 1000 cl. A available with 2 wires only for cable lengths below 1 m, for longer cables only available with 3 or 4 wires, cl. AA 3 wires for cable lengths below 1 m, for longer cables only 4 wires.	cl. A cl. B
Sensing element operating temperature range	-40 ÷105°C
Insulation resistance	100 M Ω@ 1000 Vdc.
Dielectric strength	3750 Vac
Plastic bulb dimension	Ø 5 x20 mm
Plastic bulb material	TPE (MOULDED)
Extension cable	TPE 2 conductors
Cable conductors	copper tinned
Number of cable conductors	2
Conductor dimension	AWG 24
Conductor feature	strand (7 wire)
Primary insulation	PP (polypropylene)
Outside diameter of single conductor (*) (*) primary insulation	about Ø 1.05 mm
Primary insulation colour	1 white, 1 black
Secondary insulation colour	black
Cable size or external shape	about Ø 3,3 mm
Cable working temperature	-40 ÷105°C (6h @150°C)
Note	twisted conductors
Cable lenghts E= (subject to feasibility check)	500 mm ÷100 m
Fixing system	bare stem
Protective sheath (*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step	missing, Response time < 10 seconds(*) Ø 6 x L=30 mm, Sheet material INOX, Response time < 15 seconds(*) Ø 6 x L=40 mm, Sheet material INOX, Response time < 15 seconds(*) Ø 6 x L=50 mm, Response time < 15 seconds(*), Sheet material INOX Ø 6 x L=60 mm, Sheet material INOX, Response time < 15 seconds(*) Ø 6 x L=70 mm, Sheet material INOX, Response time < 15 seconds(*) Ø 6 x L=100 mm, Response time < 15 seconds(*), Sheet material INOX Ø 6 x L=150 mm, Sheet material INOX, Response time < 15 seconds(*) Ø 6 x L=200 mm, Sheet material INOX, Response time < 15 seconds(*)
Product marking	marked with production date and traceability code (FOR CONSTRUCTION WITH STAINLESS STEEL TUBE ONLY)
International protection marking (*) (*) According to IEC 60529	IP68

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ORDER CODES

IKE2#			E			X

Sensible element

Pt100	**P1**
Pt1000	**P3**
NTC R(25°C)= 10KΩ ± 1%, Beta (25/85)=3977	**1**
NTC R(25°C)= 10KΩ ± 1%, Beta (25/85)=3435	**2**
NTC R(25°C)= 10KΩ ± 3%, Beta (25/85)=3977	**3**
NTC R(25°C)= 2.7KΩ ± 1%, Beta (25/85)=3977	**5**
NTC R(25°C)= 10KΩ, Beta (25/85)=3969, tol. ± 0,2°C (0÷70°C)	**9**

Class (According to IEC 751[*1])

B	**B**
A[*2]	**A**
NTC	**X**

[*1] For class A and B
[*2] Only Pt1000

Extension E = (mm)

1000	**1000**
2000	**2000**

Construction

without sheet (STD)	**XXXX**
with sheet Ø6x50*	**6X05**
with sheet Ø6x100*	**6X10**

* On request

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