

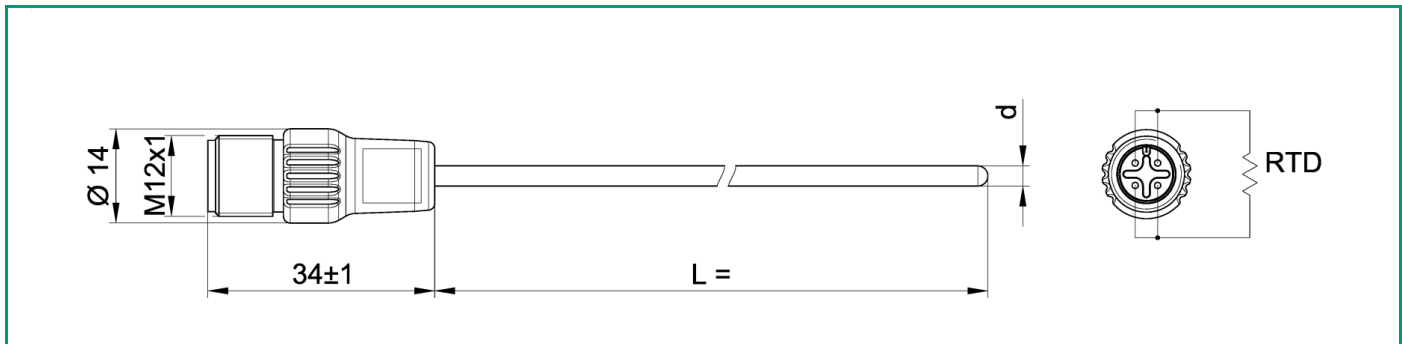
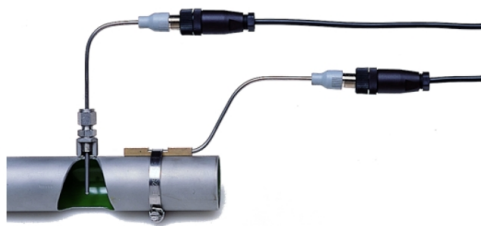
TRMSTD

Rev. 1 - 10/06/2022

MULTIFUNCTIONAL RTD

Resistance thermometer with 4-pin M12x1 connector

- Moulded IP67 connector
- foldable compact mineral insulation construction (M.I.C.) $\varnothing 3$ - 4,5 or 6 mm
- Suitable for temperatures up to 500°C



TECHNICAL SPECIFICATION

Sensing element	Pt100 Ω @ 0°C
Sensing Element configuration	single 4-wire

TECHNICAL SPECIFICATION

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, Operating range (in which the accuracy class is guaranteed) $-30 \div 300^{\circ}\text{C}$

cl. B, Operating range (in which the accuracy class is guaranteed) $-50 \div 500^{\circ}\text{C}$

cl. AA, Operating range (in which the accuracy class is guaranteed) $0 \div 150^{\circ}\text{C}$

Sheath diameter d

(*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step

$\varnothing 3$ mm, Response time < 3,5 seconds(*)

$\varnothing 4.5$ mm, Response time < 7 seconds(*)

$\varnothing 6$ mm, Response time < 13 seconds(*)

M.I.C. min. bending radius

3 times the outer diameter (except the sensing tip which length is ~ 30 mm)

Sheet material

AISI 316L

Insulation resistance

100 M Ω @ 100 Vdc.

Stem length L

100 mm
150 mm
250 mm
350 mm
500 mm
750 mm
1000 mm

Dimensional notes

Lengths other than those listed can be produced for minimum quantities to be agreed (after our feasibility study)

Type of connector

male 4-pin connector with M12x1 metal screw lock (in accordance with IEC 61076-2-101 STANDARDS)

Connection body material

POLYAMIDE (MOULDED)

Maximum connector temperature

120°C

Fixing system

bare stem

Marking

marked with calibration value at 0 °C, production date and traceability code

International protection marking (*)

(*) According to IEC 60529

IP67

FCM Prescriptions

Before the use is required to wash the food contact areas

Contact food type

all the foods

Materials in contact with food

AISI 316L

Type of contact

continuous

Area suitable for contact

stem for a maximum length of 1 m (measured from the tip)

Contact food temperature range

$-40 \div 150^{\circ}\text{C}$

Maximum working pressure

PN 100 BAR

ORDER CODES

TRM#	P1				X
		Class (According to IEC 751)	Diameter d (mm)	L = (mm)	
		B	$\varnothing 2^*$	100	0100
		A	$\varnothing 3$	150	0150
		AA(1/3B)	$\varnothing 4,5$	250	0250
			$\varnothing 6$	350	0350
				500	0500
				750	0750
				1000	1000

*only L=250 mm

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WE SENSE
TEMPERATURE