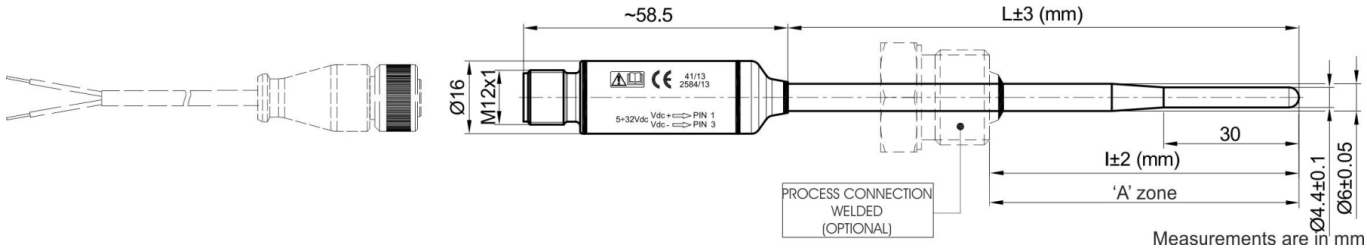
EVOMINIatF

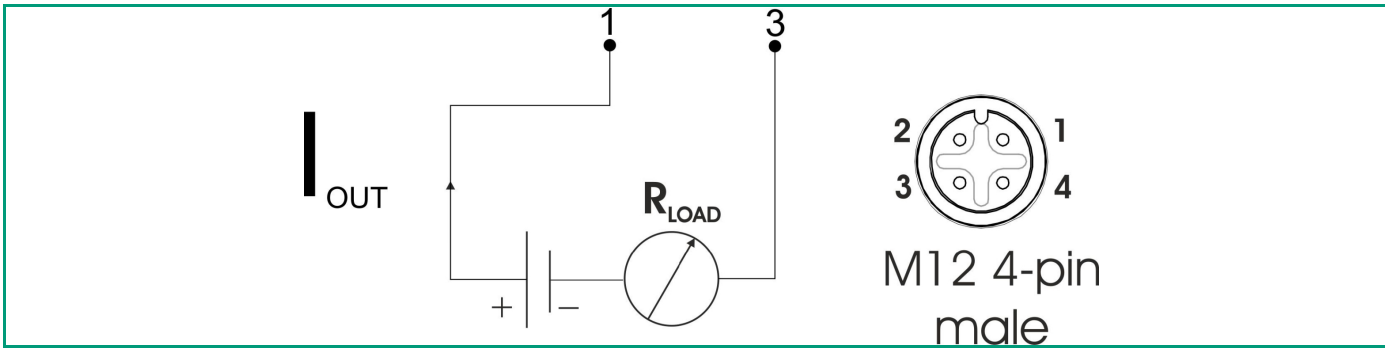
Rev. 0 - 24/05/2021

EVOMINI F

4÷20mA temperature transmitter with tapered stem, metallic body and fixed range

This device can be a reliable alternative to common assemblies with connection head. Then moulded connector allow easy installation.
It is possible to weld on the stem different type of process connections.
This device is very useful in food, chemical and pharmaceutical industry.





ITALCOPPIE SENSORI srl
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WE SENSE TEMPERATURE

TECHNICAL SPECIFICATION

Supply voltage	10 ÷28 Vcc (polarity protected)
Accuracy	≤ ±0.3°C
Response time of electronics section	<50 ms
Effect of temperature (*) **(*) deviation from 20°C**	Maximum value between ±0,3°C/25°C and ±0,3% of span/25°C
Permitted load	636 Ω @ 24 Vdc [RLΩ= (Vsupply - 10) / 0,022]
Sensor failure signalling	upper scale (> 21.0 mA) downscale (< 3.6 mA) action
Sensor short circuit signalling	Fixed at lower limit of range (< 3.6 mA)
Factory default	ranges available: 0 ÷ 100 °C 0 ÷ 150 °C 0 ÷ 300 °C -50 ÷ 150 °C -50 ÷ 100 °C -50 ÷ 50 °C Other configurations on request
Effect of power supply	Negligible
PCB operating temperature	-40 ÷80°C
EMC	According to EN 61326-1:2013
Sensing element operating temperature range	-50 ÷500°C
Sensing element	Pt1000 Ω @ 0°C
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 ÷ 300°C
Sheath diameter d= **(*) test in water in accordance with IEC 751. Time taken to reach 63.2% of temperature step**	Ø6 tapered a Ø4.4, Response time < 3,5 seconds(*)
Insulation resistance	100 M Ω@ 100 Vdc.
Realizable sheat lenghts L= (subject to feasibility check)	50 mm ÷10 m
Type of connector	male 4-pin connector with M12x1 metal screw lock (in accordance with IEC 61076-2-101 STANDARDS)
Connection body material	AISI 316
Fixing system	bare stem
Process connection (*) **(*) Thread STANDARDS (CYL. GAS in accordance with UNI-ISO 228) (CON. GAS in accordance with UNI-ISO 7-1) (NPT in accordance with ANSI B 1.20.1)**	1/4" GAS CIL 1/4" NPT 1/2" NPT
Marking	Stating production batch, pin-out and power supply range
International protection marking (*) **(*) According to IEC 60529**	IP65/67

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