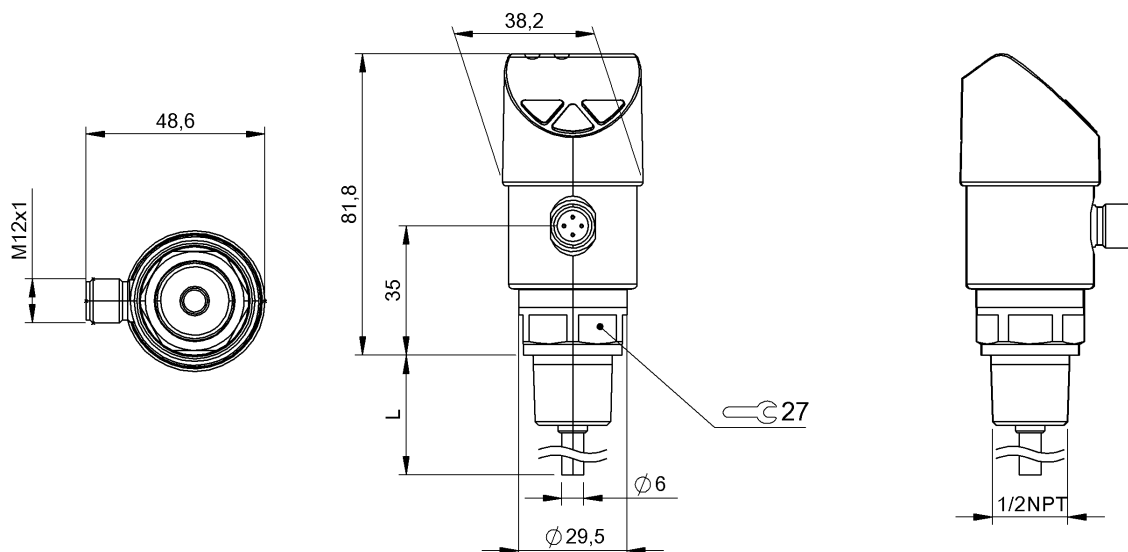




Basic features

Approval/Conformity	CE cULus WEEE EAC
Operating panel	3 buttons 4-digit, 14-segment display, red
Principle of operation	Temperature sensor

Display/Operation

Switching function display	LED
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Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	600 mA, incl. switching current
Operating voltage U_b	15...35 VDC
Switching current	100 mA
Switching cycles min.	100 mil.

Environmental conditions

Ambient temperature	-20...80 °C
EN 60068-2-27, Shock	50 g
EN 60068-2-6, Vibration	6 g at resonance
IP rating	IP65, IP67
Noise emission	EN 61326-2-3: 2013
Storage temperature	-20...80 °C

Functional safety

MTTF (40 °C)	330 a
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Interface

Analog output	Analog, voltage 0...10 V
Switching output	PNP

Material

Housing material	PC/ABS TPE-E, PC, Stainless steel (1.4301)
Process connection material	1.4571 stainless steel

Mechanical data

Installation length from contact surface	50 mm
Pressure rating max.	150 bar
Probe diameter	6 mm
Process connection	NPT 1/2" outer
Tightening torque max.	70 Nm
Weight	340 g

Temperature Sensors
BFT 6050-JC003-A00A0C-S4
Order Code: BFT001E

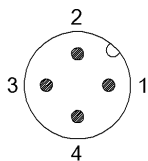
BALLUFF

Range/Distance

Accuracy analog signal	$\leq \pm 0.5\%$ of span + temperature sensor error
Accuracy display	$\leq \pm (0.8\%$ of span + temperature sensor error) ± 1 digit
Accuracy switching output	$\leq \pm 0.8\%$ of span + temperature sensor error

Measuring element	Pt1000
Measuring range	-20...80 °C
Response time per IEC 60751	T05 < 5 s T09 < 10 s
Tolerance of the measuring resistor per IEC 60751	Class A $\pm (0.15\text{ °C} + 0.002\text{ ltt})$

Connector Drawings



Wiring Diagrams

