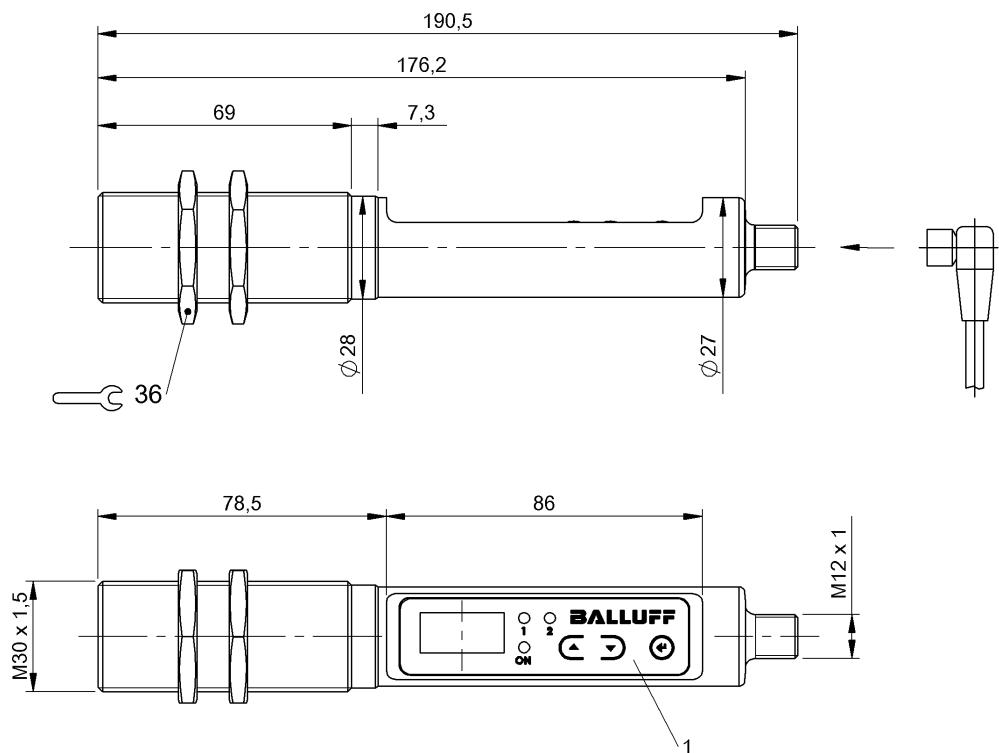




1) Display and control panel



Basic features

Approval/Conformity	CE
	EAC
	WEEE
Principle of operation	Band radiation sensor
Series	M30E0

Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max.	1 °C
Load capacitance max. at Ue	70 nF
Load resistance max., analog output	500 Ohm
Operating voltage Ub	10...30 VDC
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	3.5 s
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	100 Hz

Temperature Sensors
BTS M30E0-PSB-H0001-S04G
Order Code: BTS0003

BALLUFF

Environmental conditions

Ambient temperature	-5...65 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6 Half-sinus, 100 gn, 2 ms, 3x8000
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
IP rating	IP65, IP67
Relative humidity	95 %, non-condensing
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	89 a
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Material

Housing material	Stainless steel, Stainless steel (1.4404) Aluminum, black anodized, Aluminum (3.3206)
Material sensing surface	Borosilicate crown glass (N-BK7), coated

Mechanical data

Dimension	Ø 30 x 190 mm
Mounting	Nut M30x1.5
Tightening torque max.	80 Nm
Weight	300 g

Output/Interface

Analog output	Analog, current 4...20 mA
Switching output	PNP normally open/normally closed (NO/NC)

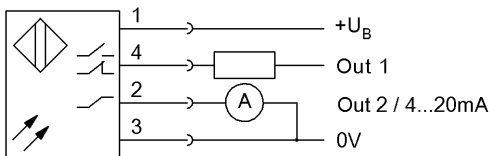
Range/Distance

Measuring range	250...1250 °C
Reproducibility	±1 °C
Temperature drift max.	10 %

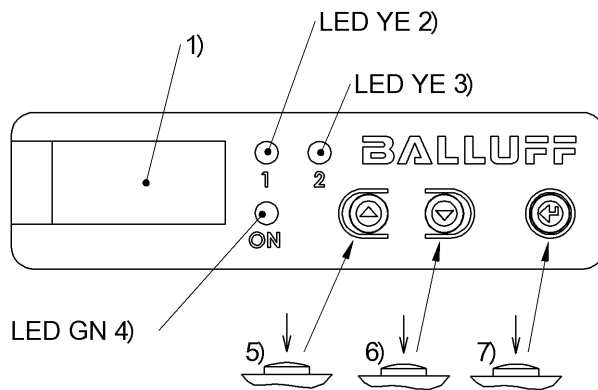
Connector Drawings



Wiring Diagrams



Help Views



1) Display

2) Output 1 active

3) Output 2 active

4) Operating voltage

5) Scroll / increase value

6) Scroll / Reduce value

7) Menu, confirm selection