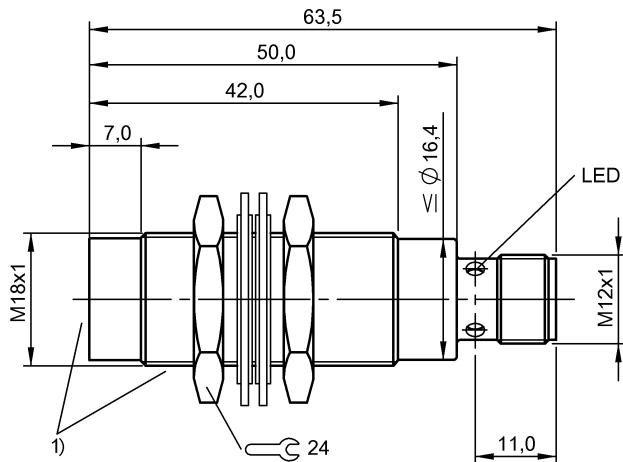




1) Pressure resistant area



Basic features

Approval/Conformity	CE cULus WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

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

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current Im	0 mA
No-load current Io max., damped	16 mA
No-load current Io max., undamped	9 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	47.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	15 %
Switching frequency	200 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Switching output	NPN normally open (NO)
------------------	------------------------

Inductive Sensors
BES M18EF1-NSC20F-S04G-S
Order Code: BES02Y0

BALLUFF

Material

Housing material	1.4305 stainless steel
Material sensing surface	1.4305 stainless steel

Mechanical data

Dimension	Ø 18 x 63.5 mm
Installation	non-flush
Mounting length	35.00 mm
Pressure rating max.	60 bar
Pressure rating, note	Pressure-resistant
Size	M18x1
Tightening torque	50 Nm ±10 %

Range/Distance

Assured operating distance Sa	16.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	20 mm
Real switching distance sr	20 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Installation permitted only in clamp without positive stop.
When installing in metal see Installation Instructions 939231.
LED flashes between 100% and approx. 70% of Sr

Connector Drawings



Wiring Diagrams (Schematic)

