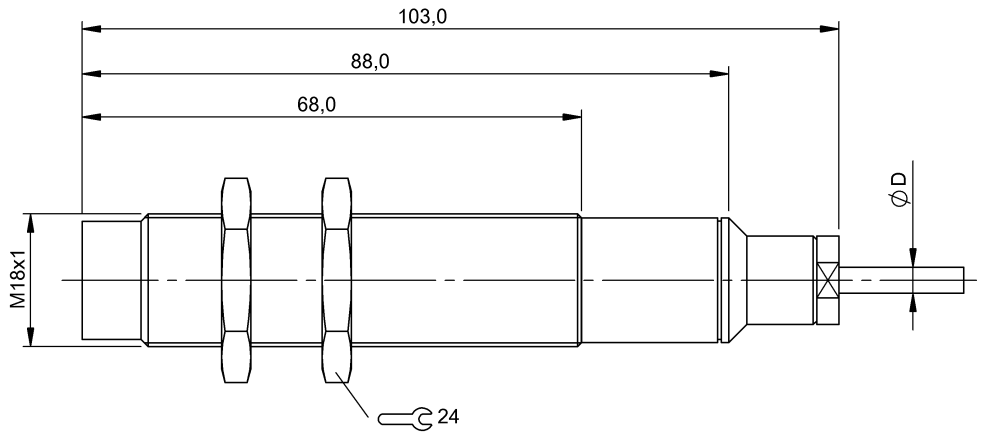
Inductive Sensors

BES 515-360-SA13-D-TF-02
Order Code: BES043U



Basic features

Approval/Conformity	CE EAC WEEE

Electrical connection

Cable diameter D	3.70 mm
Cable length L	2 m
Conductor cross-section	0.34 mm²
Connection type	Cable, 2.00 m, PTFE
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current Io max., damped	7 mA
No-load current Io max., undamped	7 mA
Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	160 ms
Residual current Ir max.	20 µA
Ripple max. (% of Ue)	10 %
Switching frequency	200 Hz
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...160 °C
Protection degree	IP68

Functional safety

MTTF (40 °C)	1900 a

Material

Housing material	Stainless steel (1.4571)
Material jacket	PTFE, FEP
Material sensing surface	PEEK

Mechanical data

Dimension	Ø 18 x 103 mm
Installation	non-flush
Size	M18x1
Tightening torque	25 Nm

Output/Interface

Switching output	PNP normally open (NO)

Range/Distance

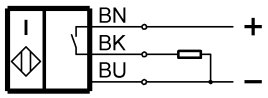
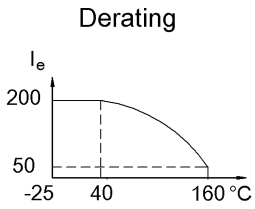
Assured operating distance Sa	6.5 mm
Hysteresis H max. (% of Sr)	10.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	20 %
Tolerance Sr	±10 %

Remarks

Installation instructions for ultra-high temperature rated inductive sensors 939234.
The sensor is functional again after the overload has been eliminated.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams



Technical Drawings