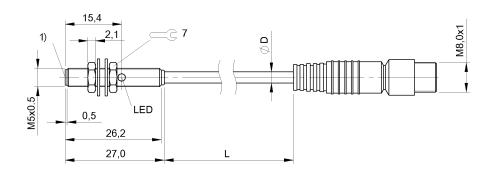
## BES 516-3005-E4-C-S49-00,3

Order Code: BES00H1





#### 1) Sensing surface









Basic features
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Cable length L Connection

Dasic reatures	
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator Power indicator	yes no
Electrical connection	
Cable diameter D	3.00 mm

0.3 m

yes yes

yes

M8x1-Male, 3-pin

Cable with connector, 0.30 m, PUR

Connection type		
Polarity reversal protected		
Protection against device mix-ups		
Short-circuit protection		

#### Electrical data

Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	6 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open drain
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	21 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions	5
Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

Subject to change without notice: 235863

MTTF (40 °C) 305 a

# BES 516-3005-E4-C-S49-00,3

Order Code: BES00H1



#### Interface

**Switching output** PNP normally open (NO)

#### Material

Housing materialStainless steelMaterial jacketPURMaterial sensing surfacePBT

#### Mechanical data

DimensionØ  $5 \times 27 \, \text{mm}$ Installationfor flush mountingMounting length $26.00 \, \text{mm}$ SizeM5x0.5Tightening torque $1 \, \text{Nm}$ 

#### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 0.65 mm
15.0 %
0.8 mm
0.8 mm
5.0 %

10 %
±10 %

#### Remarks

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.

#### **Connector Drawings**



### Wiring Diagrams (Schematic)

