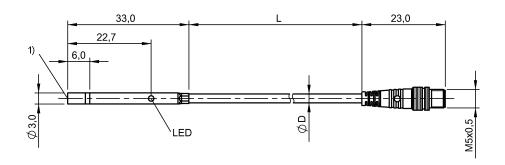
BES 516-3048-G-E4-C-S26-00,3

Order Code: BES00MH





1) Sensing surface









CE

Ragic	features
Dasic	reatures

Approval/Conformity

,	UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Cable diameter D	2.40 mm
Cable length L	0.3 m
Connection	M5x0.5-Male
Connection type	Cable with connector, 0.30 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μF
Min. operating current Im	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	8 mA
Operating voltage Ub	21.626.4 VDC
Output resistance Ra	Open emitter
Rated insulation voltage Ui	75 V DC
Rated operating current le	50 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	070 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	

735 a

MTTF (40 °C)

BES 516-3048-G-E4-C-S26-00,3 Order Code: BES00MH

BALLUFF

Interface

Switching output

PNP normally open (NO)

Material

Housing material

Stainless steel

Material jacket

PUR

Material sensing surface

PET-C

Mechanical data

Range/Distance

Assured operating distance Sa 2.3 mm Hysteresis H max. (% of Sr) 20.0 % Rated operating distance Sn 3 mm Real switching distance sr 3 mm Repeat accuracy max. (% of Sr) 15.0 % Switching distance marking Temperature drift max. (% of Sr) 15% Tolerance Sr ±10 %

Remarks

Cannot be flush mounted: see installation instructions for inductive sensors with extended switching distance 939224. Avoid pressure and contact in the area of the clear zone cap.

The sensor is functional again after the overload has been eliminated.

EMC: For operating conditions with noise sources

External protection circuit is required. Document 825345.

When using an AC bridge, an electrolytic capacitor ≥10µF/40V parallel to Vs is recommended.

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)

