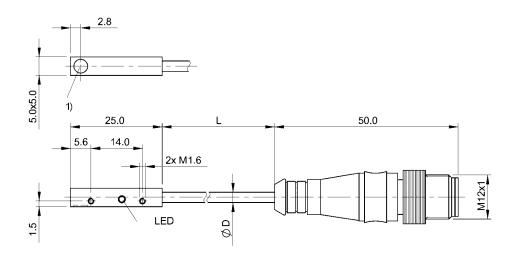
BES 516-3040-I02-C-S4-00,3

Order Code: BES019T





1) Sensing surface









Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Base type deviation	PIGTAIL M12 / 0.3M
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

1 Over maleutor	110
Electrical connection	
Cable diameter D	3.00 mm
Cable length L	0.3 m
Connection	M12x1-Male, 4-pin, A-coded
Connection type	Cable with connector, 0.30 m, PUF
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.2 μF
Min. operating current Im	1 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open collector
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.	15 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 conditio	ns
Ambient temperature	-2570 °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
E	
Functional safety	

830 a

MTTF (40 °C)

BES 516-3040-I02-C-S4-00,3

Order Code: BES019T



Interface

Switching output PNP normally open (NO)

Material

Housing material Aluminium, Anodized PUR

Material jacket PBT Material sensing surface

Mechanical data

Dimension 25 x 5 x 5 mm Installation for flush mounting

Size 5x5

Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Temperature drift max. (% of Sr) Tolerance Sr

0.8 mm 5.0 % 20 % ±10 %

0.65 mm

15.0 %

0.8 mm

Remarks

ESD requirements met if housing is grounded.

EMC: For operating conditions with noise sources

External protection circuit is required. Document 825345.

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

