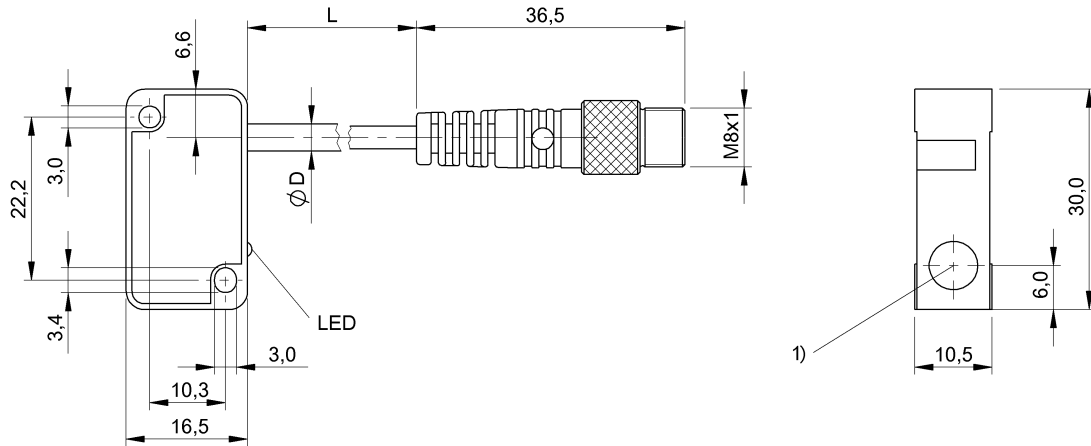


BES 517-352-NO-C-S49-00,2
BES04Y1



1) Sensing surface



IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	3.10 mm
Cable length	0.2 m
Connection	M8x1-Connector, 3-pole
Connection type	Cable with connector, 0.20 m, PUR
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 µF
No-load current I ₀ max., undamped	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	50 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	80 µA
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-25...70 °C
Protection type IEC 60529	IP65

General data

Approval/Conformity	CE cULus, DC, Code 81U2 EAC
Basic standard	IEC 60947-5-2

Material

Housing material	PBT, GF20
Material jacket	PUR
Material sensing surface	PBT, GF20

Mechanical data

Dimension	30 x 10.5 x 16.5 mm
Installation	for flush mounting

Output/Interface

Switching output	NPN Normally closed (NC)
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Range/Distance

Assured operating distance S _a	1.6 mm
Range	2 mm
Rated operating distance S _n	2 mm
Ripple max. (% of U _e)	15 %
Temperature drift max. (% of Sr)	10 %

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Remarks

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

Connector view



Wiring Diagram

