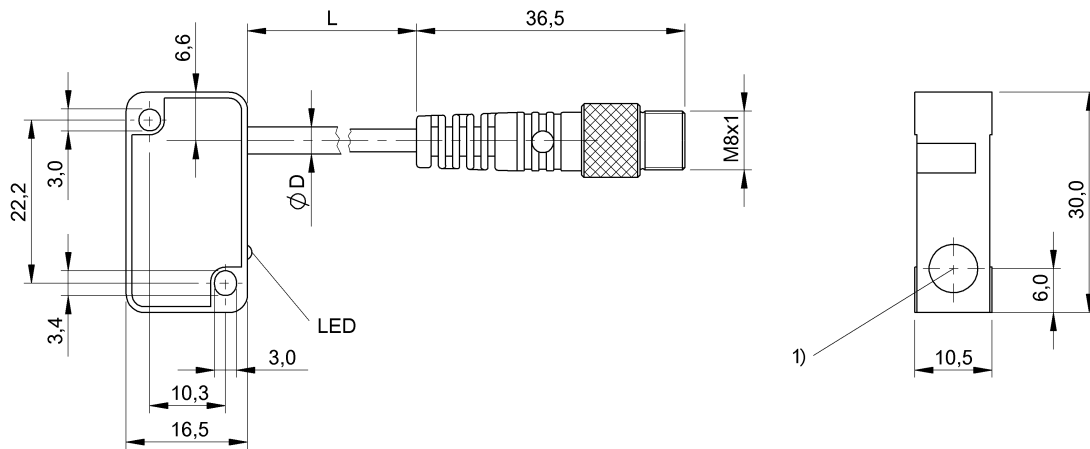


## BES 517-351-NO-C-S49-00,2 BES01MT



1) Sensing surface



IND. CONT. EQ  
81U2  
US 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	3.70 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 <sub>0</sub> max., undamped	10 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Output resistance R <sub>a</sub>	33.0 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub> DC	200 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	50 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> 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	PNP Normally closed (NC)
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### Range/Distance

Assured operating distance S <sub>a</sub>	1.6 mm
Range	2 mm
Rated operating distance S <sub>n</sub>	2 mm
Ripple max. (% of U <sub>e</sub> )	15 %
Temperature drift max. (% of Sr)	10 %

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BES01MT

## Remarks

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

## Connector view



## Wiring Diagram

