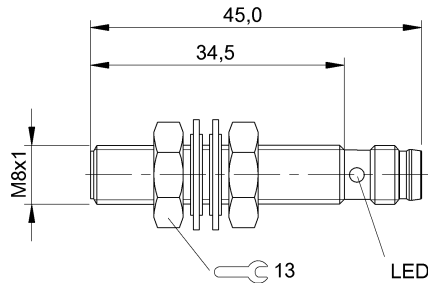


## BES 516-377-G-E5-C-S49 BES0113



IND. CONT. EQ  
8TU2  
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

Connection	M8x1-Connector, 3-pole
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.5 µF
MTTF (40 °C)	830 a
No-load current I <sub>o</sub> max., undamped	9 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>	250 V AC
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.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I <sub>r</sub> max.	20 µA
Switching frequency	1500 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

### Environmental conditions

Ambient temperature	-25...70 °C
Protection class	II

Internet	www.balluff.com
Balluff Germany	+49 (0) 7158 173-0, 173-370
Balluff USA	1-800-543-8390
Balluff China	+86 (0) 21-50 644131

Protection type IEC 60529

IP68

### Functional safety

Diagnostic coverage	0.0 %
Functional safety	no
Mission Time	20 a

### General data

Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2

### Material

Housing material	Stainless steel
Material sensing surface	PBT

### Mechanical data

Dimension	Ø 8 x 45 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	8 Nm

### 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

For definitions of terms, see main catalog  
Subject to change without notice

eCl@ss 9.1: 27-27-01-01  
ETIM 6.0: EC002714  
BES0113\_09-03-17\_16:46

## BES 516-377-G-E5-C-S49 BES0113

Ripple max. (% of Ue)	15 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %

### Remarks

The sensor is functional again after the overload has been eliminated.  
Shielded: See installation instructions for inductive sensors with extended range 825357.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

### Connector view



### Wiring Diagram

