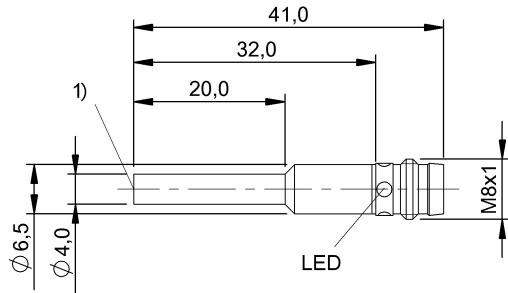


**BES 516-3007-G-E5-C-S49**  
**Ordering code: BES00JN**

**Inductive sensor**  
**D04.0x41 mm**  
**Small housing**

**DC, direct current**  
**PNP/Normally open (NO)**  
**Sn = 1,5 mm**  
**Flush (shielded)**

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*sensors worldwide*



**Characteristic data**

Eff. switching distance Sr	1,50 mm
Tolerance Sr	±10 %
Assured operating distance Sa	1,20 mm
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10 %
Switching freq. f max.	3000 Hz
Ready delay tv max.	25 ms
Utilisation category	DC 13
Function indicator	Yes
Power-on indicator	No
Short-circuit protected	Yes
Degree of protection as per IEC 60529	IP67
Protected against polarity reversal	Yes
Protected against reverse connection	Yes

**Electrical data**

Operating voltage	
Rated operating voltage Ue DC	24,0 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	3 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	100 mA
No-load current Io damped	10 mA
No-load current Io undamped	3 mA
Off-state current Ir max.	80 µA

Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	Open collector
Load capacitance max. (at Ue)	0,2 µF
Principle of operation	Inductive

**Mechanical data**

Housing material	Stainless steel
Sensing surface material	PBT
Connection type	Connector
Connector type	M08x1-S49
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

**Basic data**

Basic standard	IEC 60947-5-2
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**Remarks**

When using an AC bridge, an electrolytic capacitor  $\geq 10\mu\text{F}/40\text{V}$  parallel to Ub is recommended.

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

With connector, e.g. BKS-S 49-... total length = switch length +12 mm.

Embeddable: See installation notes for inductive sensors with extended switching distance 825357.

EMC: Surge immunity; external protection circuit required. Document 825345, Section 2.



Definitions see main catalog

subject to change

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