

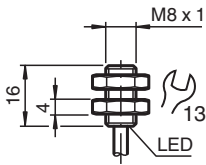


Inductive sensor NBB2-8GS16-E3

- 2 mm flush
- Increased operating distance
- Stainless steel version
- Extended temperature range



Dimensions



Technical Data

General specifications			
Switching function			Normally closed (NC)
Output type			PNP
Rated operating distance	s_n		2 mm
Installation			flush
Output polarity			DC
Assured operating distance	s_a		0 ... 1.62 mm
Actuating element			mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor r_{Al}			0.2
Reduction factor r_{Cu}			0.1
Reduction factor r_{304}			0.55
Reduction factor r_{Brass}			0.25
Output type			3-wire
Nominal ratings			
Operating voltage	U_B		5 ... 30 V
Switching frequency	f		0 ... 6000 Hz
Hysteresis	H		typ. 5%
Reverse polarity protection			reverse polarity protected
Short-circuit protection			pulsing
Voltage drop	U_d		≤ 1.5 V
Operating current	I_L		0 ... 100 mA
Off-state current	I_r		0.01 mA
No-load supply current	I_0		≤ 10 mA
Time delay before availability	t_v		≤ 100 ms
Switching state indicator			LED, yellow

Release date: 2024-04-23 Date of issue: 2024-04-23 Filename: 304615-0075_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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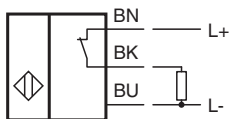
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Technical Data

Functional safety related parameters	
MTTF _d	960 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
UL approval	cULus Listed, General Purpose, Class 2 Power Source
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Connection type	cable PVC , 2 m
Core cross section	0.14 mm ²
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	LCP
Degree of protection	IP65 / IP66 / IP67
Cable	
Cable diameter	3.5 mm ± 0.1 mm
Bending radius	> 10 x cable diameter
Mass	58 g
Dimensions	
Length	16 mm
Diameter	8 mm
General information	
Scope of delivery	2 hex nuts included

Connection Assignment



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