

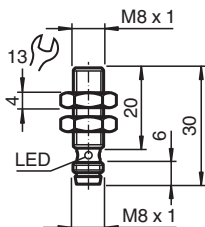


Inductive sensor NBB2-8GH20-E2-V3

- Increased operating distance
- Short version
- Materials used compliant with FDA
- Housing with stainless steel (V4A; 1.4435)



Dimensions



Technical Data

General specifications

Switching function	Normally open (NO)	
Output type		PNP
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.25
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.63
Reduction factor r_{Brass}		0.31
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 10 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Switching state indicator		Multihole-LED, yellow

Safety-relevant product characteristics

Release date: 2026-03-04 Date of issue: 2026-03-04 Filename: 216679_eng.pdf

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

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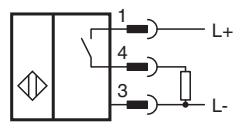
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Technical Data

MTTF _d	2750 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Approvals and certificates	
UL approval	cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector plug
Housing material	Stainless steel 1.4435 / AISI 316L
Sensing face	LCP, (conforms with FDA)
Degree of protection	IP67
Connector	
Threading	M8 x 1
Number of pins	3
Mass	10 g
Dimensions	
Length	30 mm
Diameter	8 mm

Connection Assignment



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

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