

Inductive sensor

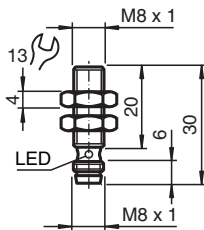
NBB2-8GH20-E2-V3



- 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

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

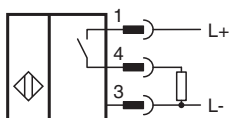
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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Technical Data

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_o	≤ 15 mA
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		2750 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
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		M8 x 1 connector, 3-pin
Housing material		Stainless steel 1.4435 / AISI 316L
Sensing face		LCP, (conforms with FDA)
Degree of protection		IP67
Mass		10 g

Connection



Connection Assignment







Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

Accessories

	BF 8	Mounting flange, 8 mm
	V3-GMV4A-5M-PUR	Female cordset single-ended M8 straight stainless steel 1.4404, A-coded, 3-pin, PUR cable grey
	V3-WMV4A-5M-PUR	Female cordset single-ended M8 angled stainless steel 1.4404, A-coded, 3-pin, PUR cable grey
	V3-WM-2M-PUR	Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey

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