

Inductive sensor

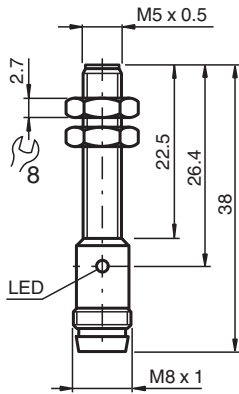
NBB1,5-5GM25-E2-V3



- Basic series
- 1.5 mm flush



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Actuating element		5 mm x 5 mm x 1 mm
Reduction factor r_{Al}		0.41
Reduction factor r_{Cu}		0.38
Reduction factor r_{304}		0.85
Reduction factor r_{Brass}		0.54
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 3000 Hz
Hysteresis	H	1 ... 15 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

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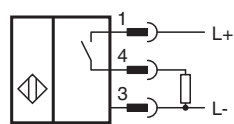
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PEPPERL+FUCHS

Technical Data

Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 200 mA
Off-state current	I _r	0 ... 0.1 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 10 mA
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d	1245 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, 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		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		POM
Degree of protection		IP67
Connector		
Threading		M8 x 1
Number of pins		3
Dimensions		
Length		38 mm
Diameter		5 mm

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

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