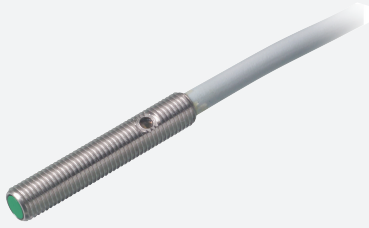


Inductive sensor

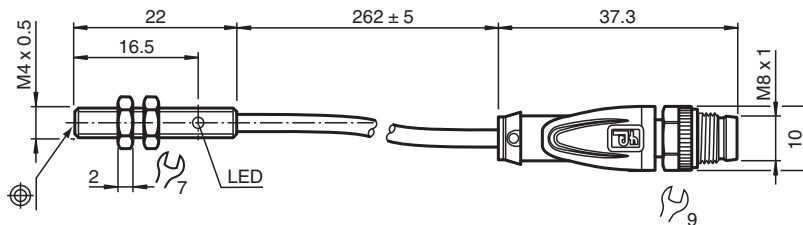
NBB1-4GM22-E2-0,3M-V3



- 1 mm flush
- Miniature design
- Cable with M8 plug



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	1 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.81 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.29
Reduction factor r_{304}		0.76
Reduction factor r_{Brass}		0.46
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 700 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 ... 0.1 mA typ. at 25 °C
No-load supply current	I_0	≤ 10 mA
Switching state indicator		LED, yellow

Functional safety related parameters

Release date: 2025-09-29 Date of issue: 2025-09-29 Filename: 224132_eng.pdf

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

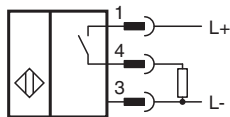
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

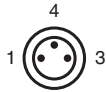
Technical Data

MTTF _d		1340 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		fixed cable with plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PC
Degree of protection		IP67
Connector		
Threading		M8 x 1
Tightening torque		≤ 0.4 Nm
Number of pins		3
Cable		
Cable diameter		2.6 mm ± 0.1 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		grey
Number of cores		3
Core cross section		0.055 mm ²
Length	L	0.3 m
Mass		14 g
Dimensions		
Length		22 mm
Diameter		4 mm

Connection Assignment



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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