

Inductive sensor

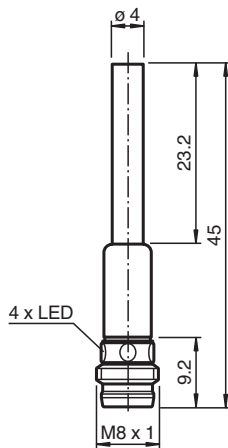
NBB0,8-4M25-E2-V3



- Basic series
- 0.8 mm flush



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.648 mm
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.85
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 3000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 213042_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

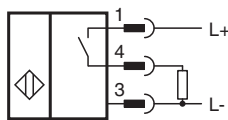
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 100 mA
Off-state current	I _r	0 ... 0.1 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 12 mA
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d	1402 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	45 mm	
Diameter	4 mm	

Connection



Connection Assignment



Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 213042_eng.pdf

Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

Mounting

