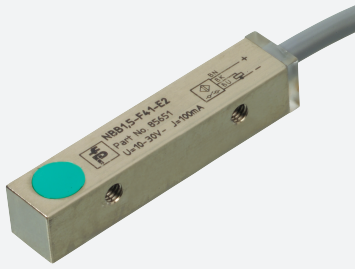


Inductive sensor

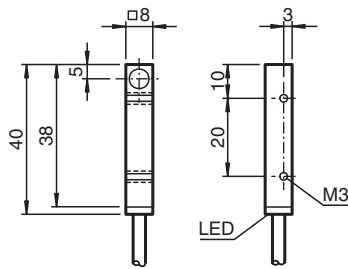
NBB1,5-F41-E2-5M



- Basic series
- Metal housing



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
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.75
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

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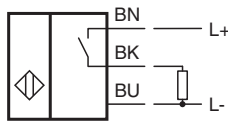
Singapore: +65 6779 9091
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PEPPERL+FUCHS

Technical Data

Voltage drop	U_d	$\leq 3\text{ V}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ.
No-load supply current	I_0	$\leq 15\text{ mA}$
Time delay before availability	t_v	$\leq 20\text{ ms}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1528 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 $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 5 m
Core cross section		0.14 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		3 mm + 0.3 mm
Bending radius		> 10 x cable diameter
Mass		13.5 g
Dimensions		
Height		8 mm
Width		8 mm
Length		40 mm

Connection



Release date: 2024-05-28 Date of issue: 2024-06-02 Filename: 125798_eng.pdf