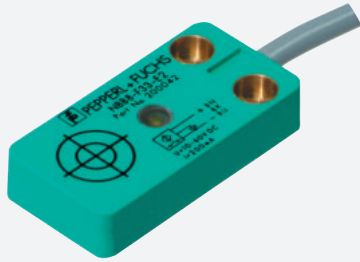


Inductive sensor

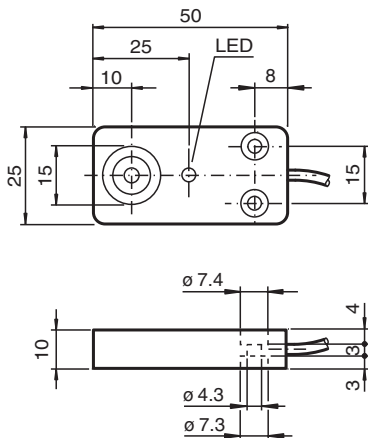
NBB8-F33-E2-M-Y247440



- 8 mm flush
- E1-Type approval
- Extended temperature range
-40 ... +85 °C
- Increased operating distance
- Increased noise immunity 100 V/m



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 6.48 mm
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.6
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Switching frequency	f	0 ... 350 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 2 V

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

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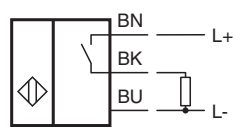
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 80 ms
Switching state indicator		LED yellow
Functional safety related parameters		
MTTF _d		1140 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		
CCC approval		CCC approval / marking not required for products rated ≤36 V
E1 Type approval		10R-04
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cablE PUR , 2 m
Core cross section		0.5 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67 / IP69K
Dimensions		
Height		25 mm
Width		50 mm
Length		10 mm
Note		Tightening torque: 5 Nm

Connection



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Mounting

Emitted interference and interference immunity in accordance with motor vehicle directive 2006/28/EG (e1 Type approval)
Interference immunity in accordance with DIN ISO 11452-2: 100 V/m
Frequency band 20 MHz up to 2 GHz

Mains-borne interference in accordance with ISO 7637-2: Pulse

	1	2a	2b	3 a	3b	4	5
Severity level	III	III	III	III	III	III	IV
Failure criterion	C	A	C	A	A	A	C

EN 61000-4-2:	CD: 8 kV / AD: 15 kV
Severity level	IV IV
EN 61000-4-3:	30 V/m (80...2500 MHz)
Severity level	IV
EN 61000-4-4:	2 kV
Severity level	III
EN 61000-4-6:	10 V (0.01...80 MHz)
Severity level	III
EN 55011:	Class A

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