

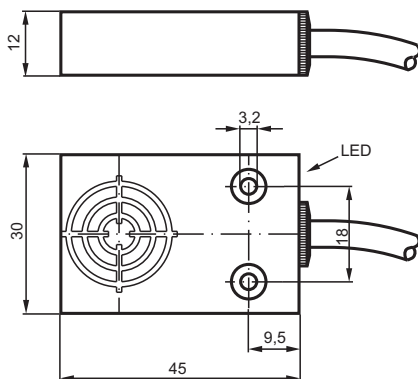
Inductive sensor NBB6-F-B3B



- Basic series
- NO/NC selectable
- Degree of protection IP67
- Oscillator monitoring



Dimensions



Technical Data

General specifications

Switching function		Normally open/closed (NO/NC) programmable
Output type		AS-Interface
Rated operating distance	s_n	6 mm
Installation		flush
Assured operating distance	s_a	0 ... 4.86 mm
Reduction factor r_{Al}		0.28
Reduction factor r_{Cu}		0.25
Reduction factor r_{304}		0.75
Node type		A/B node
AS-Interface specification		V3.0
Required gateway specification		$\geq$ V2.1
Output type		2-wire

Nominal ratings

Release date: 2022-05-18 Date of issue: 2022-05-18 Filename: 190764_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

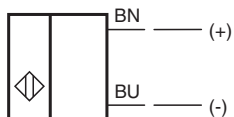
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Operating voltage	U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency	f	≥ 500 (P3=0), ≥ 100 (P3=1)
Hysteresis	H	typ. 5 %
Operating current	I_L	20 mA
Time delay before availability	t_v	≤ 1000 ms
Functional safety related parameters		
MTTF _d		532 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED POWER		AS-Interface voltage; LED green
LED IN		switching state (input); LED yellow
LED OUT		Dual LED yellow/red yellow: switching state red: error mode
Electrical specifications		
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 50295:1999
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus 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)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cablE PVC , 2 m
Core cross section		0.34 mm ²
Housing material		PBT
Degree of protection		IP67
Mass		90 g

Connection



Additional Information

Programming instructions

Address	00 preset, alterable via Busmaster or programming units
IO-code	0
ID-code	A
ID1-code	7
ID2-code	E

Data bit

Bit	Function
D0	switching state
D1	not used
D2	oscillator monitoring
D3	not used

Parameterbit

Bit	Function
P0	Pulse extension P0 = 1 : 10 ms* P0 = 0 : Without
P1	switching element function NO* / NC
P2	not used
P3	not used

* Standard setting

Fault mode

- No communication
Red LED On
Green LED On
- Address 0 set
Red LED On
Green LED flashes