

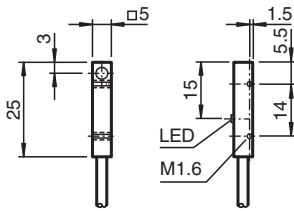


Inductive sensor NBB0,8-F141-E0

- Basic series
- 0.8 mm flush
- 3-wire DC
- Extremely high switching frequency
- Metal housing
- Increased immunity



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.648 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 5 mm x 5 mm x 1 mm
Reduction factor r_{Al}		0.6
Reduction factor r_{Cu}		0.45
Reduction factor r_{304}		0.85
Reduction factor r_{Brass}		0.6
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 10000 Hz

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

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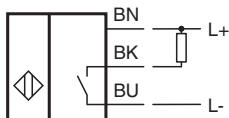
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Technical Data

Hysteresis	H	0.01 ... 0.1
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		≤ 10 %
Voltage drop	U_d	≤ 1.5 V
Repeat accuracy	R	0.01 mm
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA
No-load supply current	I_0	≤ 5 mA
Time delay before availability	t_v	≤ 1 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1354 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
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross section		0.08 mm ²
Housing material		brass, nickel-plated
Sensing face		POM
Degree of protection		IP67
Mass		40 g

Connection



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