



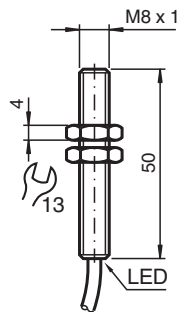
Inductive sensor

NBB1-8GS50-Z0-T

- 1 mm flush
- Extended temperature range
- Stainless steel version



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	1 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.81 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor r_{Al}		0.38
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.8
Reduction factor r_{Brass}		0.45
Output type		2-wire
Nominal ratings		
Installation conditions		
B		4 mm

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

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 **PEPPERL+FUCHS**

Technical Data

C		3 mm
F		12 mm
Operating voltage	U_B	15 ... 34 V
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	0.01 ... 0.28 mm
Reverse polarity protection		reverse polarity-conductive
Short-circuit protection		no
Overload resistance		no
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	U_d	≤ 8 V
Repeat accuracy	R	0.1 mm
Operating current	I_L	0 ... 25 mA
No-load supply current	I_0	≤ 1.5 mA
Time delay before availability	t_v	≤ 40 ms
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d		2390 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %

Compliance with standards and directives

Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

CCC approval		CCC approval / marking not required for products rated ≤ 36 V
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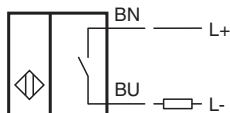
Ambient conditions

Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)

Mechanical specifications

Connection type		cable PUR , 2 m
Core cross-section		0.25 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Mass		70 g

Connection



Accessories

	BF 8	Mounting flange, 8 mm
	EXG-08	Quick mounting bracket with dead stop

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