

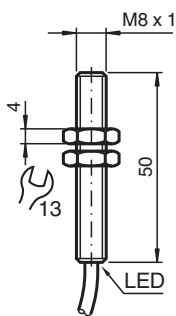


Inductive sensor NBB1-8GS50-Z0-T

- 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

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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 IEC 60947-5-2
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.5 mm ± 0.15 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		3
Core cross section		0.25 mm ²
Length	L	2 m
Mass		70 g
Dimensions		
Length		50 mm
Diameter		8 mm

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

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Connection

