



CE

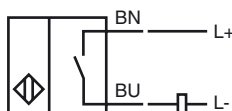
Model Number

NBB1-8GS50-Z0-T

Features

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

Connection



Accessories

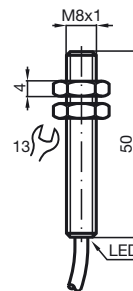
BF 8

Mounting flange, 8 mm

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

Switching element function	DC	NO
Rated operating distance	s_n	1 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 0.81 mm
Actuating element	structural 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	

Nominal ratings

Installation conditions		
B	4 mm	
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 protected	no	
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	0.1 mm	
Operating current	I_L	0 ... 25 mA
No-load supply current	I_0	≤ 1.5 mA
Indication of the switching state	LED, yellow	

Functional safety related parameters

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

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
Protection degree	IP67
Mass	70 g

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

CCC approval	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.
--------------	--