



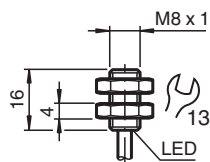
Inductive sensor

NBB2-8GS16-E0-Y0234

- 2 mm flush
- Increased operating distance
- Stainless steel version
- Extended temperature range



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 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}		0.2
Reduction factor r_{Cu}		0.1
Reduction factor r_{304}		0.55
Reduction factor r_{Brass}		0.25
Output type		3-wire

Nominal ratings

Operating voltage	U_B	5 ... 30 V
Switching frequency	f	0 ... 6000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 1.5 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0.01 mA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 100 ms
Switching state indicator		LED, yellow

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Technical Data

Functional safety related parameters

MTTF _d	960 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

UL approval	cULus Listed, General Purpose, Class 2 Power Source
CCC approval	CCC approval / marking not required for products rated ≤36 V

Ambient conditions

Ambient temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	cable
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	LCP
Degree of protection	IP65 / IP66 / IP67

Cable

Cable diameter	2.6 mm ± 0.1 mm	
Bending radius	> 10 x cable diameter	
Material	PUR	
Color	black	
Number of cores	3	
Core cross section	0.08 mm ²	
Length	L	2 m

Mass

Dimensions	
Length	16 mm
Diameter	8 mm

Connection

