

Inductive sensor

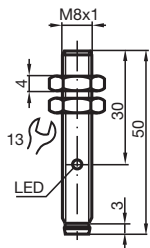
NBB1,5-8GM40-E2-C-V3



- 1.5 mm flush
- Weld Immune



Dimensions



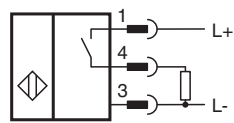
Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.25
Reduction factor r_{304}		0.65
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC

Technical Data

Switching frequency	f	0 ... 1800 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 100 mA
No-load supply current	I ₀	≤ 20 mA
Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		2240 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		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug M8 x 1 , 3-pin
Housing material		Brass, PTFE coated
Sensing face		PPS; Rytan R4
Degree of protection		IP67

Connection



Connection Assignment



Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 086789_eng.pdf

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Accessories

	BF 8	Mounting flange, 8 mm
	EXG-08	Quick mounting bracket with dead stop
	V3-GM	Female cordset single-ended, M8, 3-pin, field attachable
	V3-WM	Female cordset single-ended, M8, 3-pin, field attachable
	V3-GM-2M-PUR	Female cordset single-ended, M8, 3-pin, PUR cable
	V3-WM-2M-PUR	Female cordset single-ended, M8, 3-pin, PUR cable