

# Inductive sensor

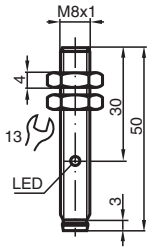
## NBB1,5-8GM40-E2-C-V3



- 1.5 mm flush
- Weld Immune



### Dimensions



### Technical Data

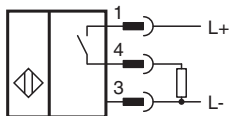
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.215 mm
Reduction factor $r_{Al}$		0.3
Reduction factor $r_{Cu}$		0.25
Reduction factor $r_{304}$		0.65
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 1800 Hz
Hysteresis	$H$	1 ... 10 % typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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## Technical Data

Voltage drop	$U_d$	$\leq 3 \text{ V}$
Operating current	$I_L$	0 ... 100 mA
No-load supply current	$I_0$	$\leq 20 \text{ mA}$
Constant magnetic field	B	100 mT
Alternating magnetic field	B	100 mT
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		2240 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		Connector plug
Housing material		Brass, PTFE coated
Sensing face		PPS; Ryton R4
Degree of protection		IP67
Connector		
Threading		M8 x 1
Number of pins		3
Dimensions		
Length		40 mm
Diameter		8 mm

## Connection



## Connection Assignment



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Wire colors in accordance with EN 60947-5-2

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