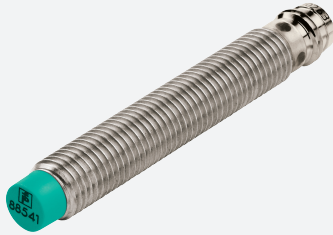


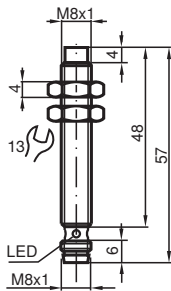
Inductive sensor NBN2-8GM50-Z1-V3



- Basic series
- 2 mm non-flush
- 2-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s_n	2 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actual operating distance	s_r	1.8 ... 2.2 mm typ.
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.39
Reduction factor r_{304}		0.75

Nominal ratings

Operating voltage	U_B	5 ... 60 V
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Technical Data

Switching frequency	f	0 ... 1200 Hz
Hysteresis	H	1 ... 10 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 5 V
Operating current	I _L	2 ... 100 mA
Lowest operating current	I _m	2 mA
Off-state current	I _r	0 ... 0.5 mA typ.
Switching state indicator		LED, yellow

Compliance with standards and directives

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

Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

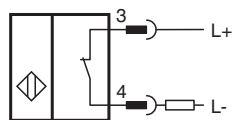
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	Connector M8 x 1 , 3-pin
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	PBT
Degree of protection	IP67

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 088541_eng.pdf

Accessories

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