

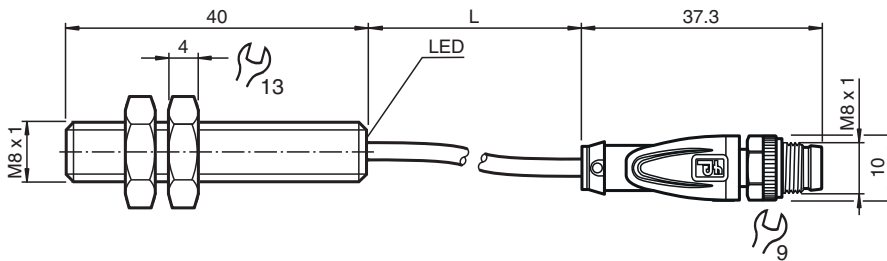
Inductive sensor

NBB1,5-8GM40-Z3-150MM-V3

- 1.5 mm flush
- 2-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.21 mm
Actual operating distance	s_r	1.35 ... 1.65 mm typ.
Reduction factor r_{Al}		0.22
Reduction factor r_{Cu}		0.16
Reduction factor r_{304}		0.64
Output type		2-wire

Nominal ratings

Operating voltage	U_B	5 ... 60 V
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.
Time delay before availability	t_v	\leq

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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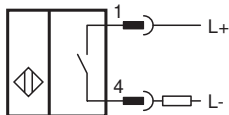
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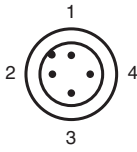
Technical Data

Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d	1476 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	
CCC approval	Certified by China Compulsory Certification (CCC)	
Ambient conditions		
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)	
Mechanical specifications		
Connection type	fixed cable with plug	
Cable gland		
Housing material	Stainless steel 1.4305 / AISI 303	
Sensing face	LCP	
Degree of protection	IP67	
Connector		
Threading	M8 x 1	
Tightening torque	0.4 Nm	
Number of pins	3	
Cable		
Cable diameter	3 mm - 0.2 mm	
Bending radius	> 12 x cable diameter	
Material	PUR	
Color	black	
Number of cores	3	
Core cross section	0.14 mm ²	
Length	L	150 mm
Dimensions		
Length	40 mm	
Diameter	8 mm	

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)