

Inductive sensor

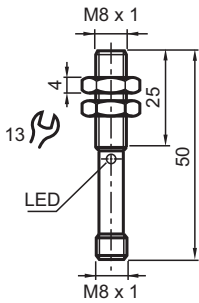
NMB3-8GM50-E2-V3



- 3 mm flush
- Stainless steel sensing face
- Increased operating distance



Dimensions



Technical Data

General specifications

Switching function	Normally open (NO)	
Output type	PNP	
Rated operating distance	s_n	3 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 2.43 mm
Reduction factor r_{Al}	0.3	
Reduction factor r_{Cu}	0.2	
Reduction factor r_{304}	0.7	
Output type	3-wire	

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 360 Hz
Hysteresis	H	5 ... 15 typ. 10 %
Reverse polarity protection	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 10 μ A typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 10 mA
Switching state indicator	LED, red	

Functional safety related parameters

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

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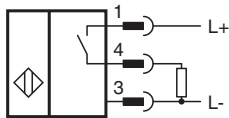
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Technical Data

MTTF _d	2000 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates	
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 75 °C (-13 ... 167 °F)
Mechanical specifications	
Connection type	Connector plug M8 x 1 , 3-pin
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	Stainless steel 1.4305 / AISI 303
Degree of protection	IP67
Dimensions	
Length	50 mm
Diameter	8 mm

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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