

Inductive sensor

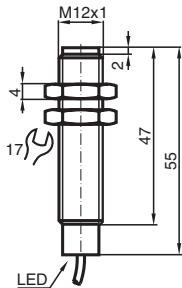
NMB5-12GM55-E0



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



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s _n	5 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	s _a	0 ... 4.05 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.85
Reduction factor r _{St37}		1
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	10 ... 30 V DC
Switching frequency	f	0 ... 360 Hz
Hysteresis	H	3 ... 15 typ. 5 %

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

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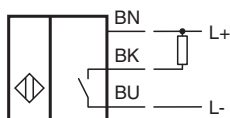
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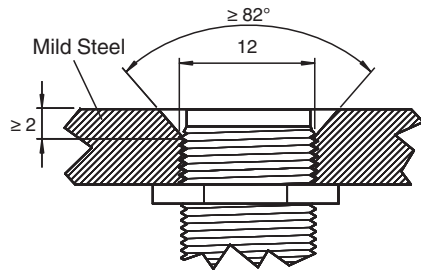
Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2 \text{ V DC}$
Operating current	I_L	$\leq 200 \text{ mA}$ For a temperature range above 50°C , the permissible operating current $I_L \leq 150 \text{ mA}$
Off-state current	I_r	$\leq 10 \mu\text{A}$
No-load supply current	I_o	$\leq 10 \text{ mA}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		900 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
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: 200 mA
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70^\circ\text{C}$ ($-13 \dots 158^\circ\text{F}$)
Mechanical specifications		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		Stainless steel 1.4305 / AISI 303
Degree of protection		IP69K
Cable		
Wire end ferrules		yes
Cable diameter		$4.8 \text{ mm} \pm 0.2 \text{ mm}$
Bending radius		$> 10 \times \text{cable diameter}$
Material		PUR
Color		black
Number of cores		3
Core cross section		0.34 mm^2
Length	L	2 m
Dimensions		
Length		55 mm
Diameter		12 mm

Connection



Mounting



Sensor face is flush with mounting surface.