

Inductive sensor

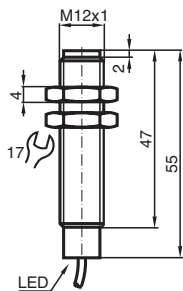
NMB2-12GM55-E2-FE



- Stainless steel sensing face
- Sensing range 2 mm
- 3-wire DC
- Ferrous targets



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actuating element		Ferrous targets
Reduction factor r_{Al}		0
Reduction factor r_{Cu}		0
Reduction factor r_{304}		0.2
Reduction factor r_{316Ti}		0
Reduction factor r_{Si37}		1
Reduction factor r_{Brass}		0
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC

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

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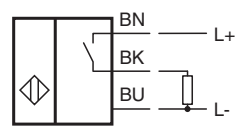
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Technical Data

Switching frequency	f	100 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 2 V DC
Operating current	I _L	≤ 200 mA For a temperature range above 50°C, the permissible operating current I _L ≤ 150 mA
Current consumption		< 14 mA
Off-state current	I _r	≤ 10 µA
Functional safety related parameters		
MTTF _d		990 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		Dual LED Green: power Yellow: output
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 ≤36 V
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °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 mm ± 0.2 mm
Bending radius		> 10 x 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 Assignment



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