

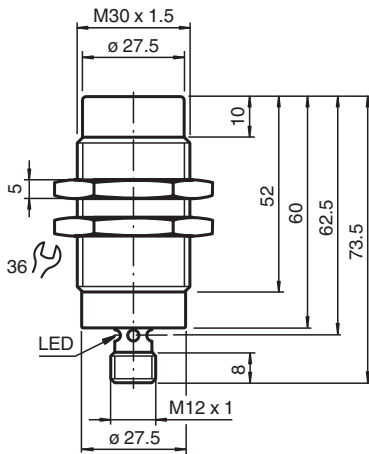
Inductive sensor NEN40-30GM60-E3-V1



- 40 mm non-flush
- Increased operating distance



Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	s_n	40 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 32.4 mm
Reduction factor r_{Al}		0.42
Reduction factor r_{Cu}		0.37
Reduction factor r_{304}		0.78
Output type		3-wire
Nominal ratings		
Installation conditions		
A		in aluminum: 25 mm in steel 1.0037 (St37): 35 mm in brass 25 mm in stainless steel 20 mm
B		55 mm

Release date: 2025-05-22 Date of issue: 2025-05-22 Filename: 231576_eng.pdf

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

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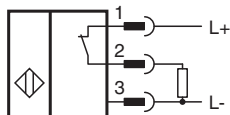
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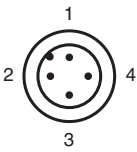
Technical Data

C		120 mm
F		150 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	$\leq 10 \%$
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μA at 25 °C
No-load supply current	I_0	$\leq 10 \text{ mA}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		211 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		
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		chromium plated brass
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		4
Dimensions		
Length		73.5 mm
Diameter		30 mm

Connection



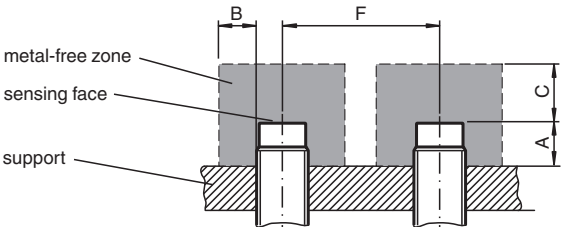
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Installation Conditions



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