

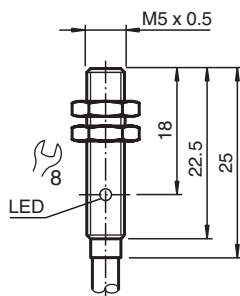
Inductive sensor

NBB1,5-5GM25-E3

■ Basic series



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.34
Reduction factor r_{304}		0.78
Reduction factor r_{Brass}		0.51
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 3000 Hz
Hysteresis	H	1 ... 15 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 10 mA

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 202167_eng.pdf

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

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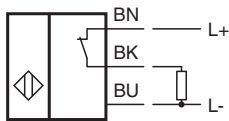
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Technical Data

Switching state indicator	LED, yellow
Functional safety related parameters	
MTTF _d	1167 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, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	cable
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	POM
Degree of protection	IP67
Cable	
Wire end ferrules	yes
Cable diameter	3 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PVC
Color	grey
Number of cores	3
Core cross section	0.14 mm ²
Length	L
Dimensions	
Length	25 mm
Diameter	5 mm

Connection Assignment



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