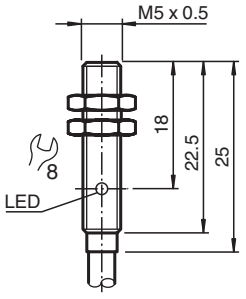
Inductive sensor
NBB1,5-5GM25-E3

- 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
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

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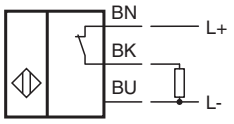
Technical Data

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 µA at 25 °C
No-load supply current	I_0	≤ 10 mA
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 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus 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 PVC , 2 m
Core cross-section		0.14 mm^2
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		POM
Degree of protection		IP67

Connection Assignment



Accessories

	BF 5	Mounting flange, 5 mm

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