

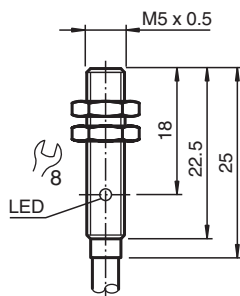
# Inductive sensor

## 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	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 10$ mA

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## Technical Data

Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		1167 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		POM
Degree of protection		IP67
<b>Cable</b>		
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 <sup>2</sup>
Length	L	2 m
<b>Dimensions</b>		
Length		25 mm
Diameter		5 mm

## Connection Assignment

