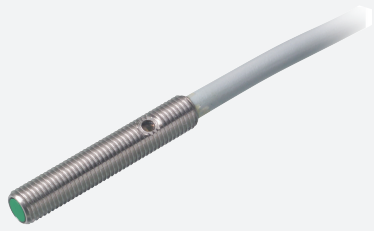


Inductive sensor

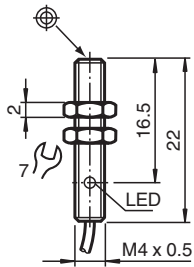
NBB1-4GM22-E2



- 1 mm flush
- Miniature design



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	1 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.81 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.29
Reduction factor r_{304}		0.76
Reduction factor r_{Brass}		0.46
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 700 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.1 mA typ. at 25 °C
No-load supply current	I_o	≤ 10 mA
Switching state indicator		LED, yellow

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 206385_eng.pdf

Technical Data

Functional safety related parameters

MTTF _d	1340 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	PC	
Degree of protection	IP67	
Cable		
Cable diameter	2.6 mm ± 0.1 mm	
Bending radius	> 10 x cable diameter	
Material	PUR	
Color	grey	
Number of cores	3	
Core cross section	0.055 mm ²	
Length	L	2 m
Dimensions		
Length	22 mm	
Diameter	4 mm	

Connection

