

# Inductive sensor

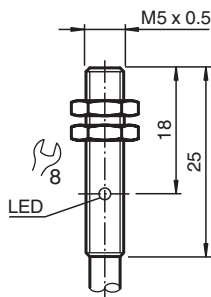
## NBB0,8-5GM25-E2



- Basic series
- 0.8 mm flush



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 0.648 mm
Reduction factor $r_{Al}$		0.45
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{304}$		0.77
Output type		3-wire

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 3000 Hz
Hysteresis	$H$	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
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
Switching state indicator		LED, yellow

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 053491\_eng.pdf

## Technical Data

### Functional safety related parameters

MTTF <sub>d</sub>	1400 a
Mission Time (T <sub>M</sub> )	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		
Wire end ferrules	yes	
Cable diameter	3.5 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
Dimensions		
Length	25 mm	
Diameter	5 mm	

## Connection

