

# Inductive sensor

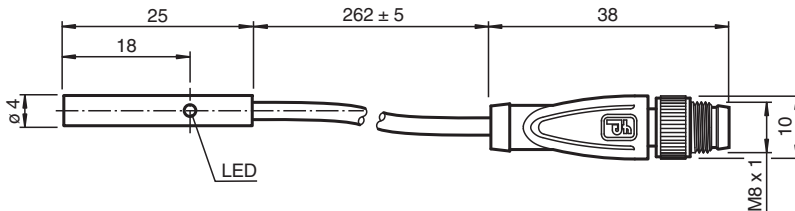
## NBB0,8-4M25-E2-0,3M-V3



- Basic series
- 0.8 mm flush
- Cable with M8 plug



### Dimensions



### Technical Data

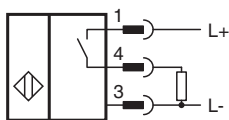
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 0.648 mm
Reduction factor $r_{Al}$		0.45
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{304}$		0.77
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
Functional safety related parameters		
MTTF <sub>d</sub>		1400 a

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## Technical Data

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	fixed cable with plug	
Housing material	Stainless steel 1.4305 / AISI 303	
Sensing face	PC	
Degree of protection	IP67	
Connector		
Threading	M8 x 1	
Number of pins	3	
Cable		
Cable diameter	3 mm - 0.2 mm	
Bending radius	> 12 x cable diameter	
Material	PVC	
Color	grey	
Number of cores	3	
Core cross section	0.14 mm <sup>2</sup>	
Length	L	0.3 m
Dimensions		
Length	25 mm	
Diameter	4 mm	

## Connection



## Connection Assignment



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Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

## Mounting

