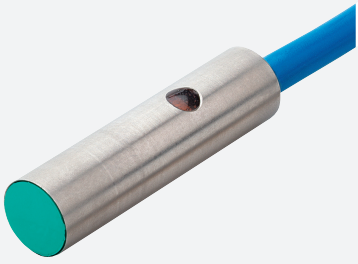


# Inductive sensor

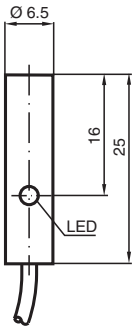
## NCB1,5-6,5M25-N0



■ 1.5 mm flush



### Dimensions



### Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	$s_n$	1.5 mm
Installation		flush
Assured operating distance	$s_a$	0 ... 1.215 mm
Actual operating distance	$s_r$	1.35 ... 1.65 mm typ.
Reduction factor $r_{AI}$		0.22
Reduction factor $r_{Cu}$		0.19
Reduction factor $r_{304}$		0.65
Output type		2-wire
Nominal ratings		
Nominal voltage	$U_o$	8.2 V ( $R_i$ approx. 1 k $\Omega$ )
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	1 ... 10 typ. 3 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes

Release date: 2024-01-09 Date of issue: 2024-01-09 Filename: 70133213\_eng.pdf

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## Technical Data

Suitable for 2:1 technology	yes , Reverse polarity protection diode not required	
Current consumption		
Measuring plate not detected	min. 3 mA	
Measuring plate detected	≤ 1 mA	
Switching state indicator	LED, yellow	
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>	3330 a	
Mission Time (T <sub>M</sub> )	20 a	
Diagnostic Coverage (DC)	0 %	
<b>Compliance with standards and directives</b>		
Standard conformity		
NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012	
<b>Approvals and certificates</b>		
IECEX approval		
Equipment protection level Gb	IECEX PTB 11.0037X	
Equipment protection level Da	IECEX PTB 11.0037X	
Equipment protection level Mb	IECEX PTB 11.0037X	
ATEX approval		
Equipment protection level Gb	PTB 00 ATEX 2048 X	
Equipment protection level Da	PTB 00 ATEX 2048 X	
UL approval	cULus Listed, General Purpose	
CCC approval		
Hazardous Location	2020322315002256	
NEPSI approval		
NEPSI certificate	GYJ16.1393X	
CML approval	on request	
ANZEx	18.3018X	
<b>Ambient conditions</b>		
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)	
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)	
<b>Mechanical specifications</b>		
Connection type	cable	
Housing material	Stainless steel 1.4305 / AISI 303	
Sensing face	LCP	
Degree of protection	IP67	
Cable		
Cable diameter	2.6 mm ± 0.2 mm	
Bending radius	> 10 x cable diameter	
Material	PVC	
Core cross section	0.14 mm <sup>2</sup>	
Length	L	2 m
Dimensions		
Length	25 mm	
Diameter	6.5 mm	
<b>General information</b>		
Use in the hazardous area	see instruction manuals	

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## Connection



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