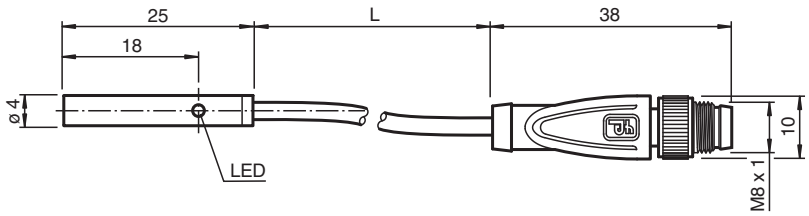


Inductive sensor

NBB0,8-4S25-E2-0,5M-V3

- 0.8 mm flush
- Stainless steel housing
- Cable with M8 plug

Dimensions



Technical Data

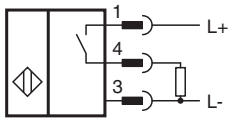
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 0.648 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.77
Output type		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	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 µA at 25 °C
No-load supply current	I_0	≤ 10 mA
Switching state indicator		LED, yellow
Safety-relevant product characteristics		
$MTTF_d$		1400 a

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Technical Data

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 Load Type: General Purpose Circuitry: Class 2 Power Source Supply/Switching Voltage: 30 V DC Output Switching Current: 200 mA
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		fixed cable with plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		POM
Degree of protection		IP67
Connector		
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 mm²
Length	L	0.5 m
Dimensions		
Length		25 mm
Diameter		4 mm

Connection Assignment



Connection Assignment



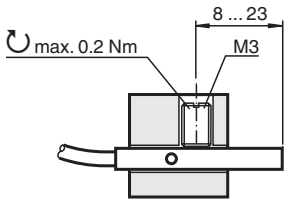
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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

Mounting



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