

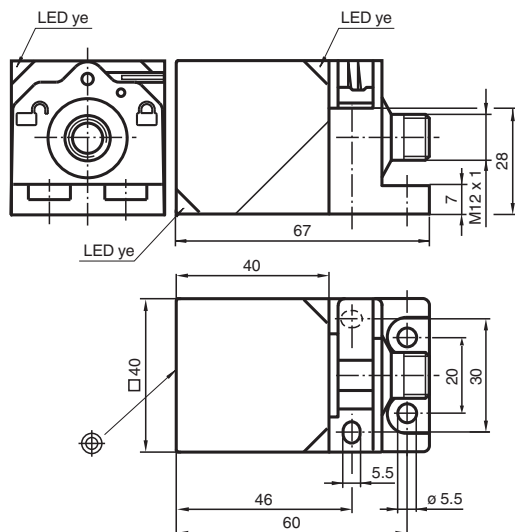


Inductive sensor NBB20-L2-Z0-V1

- 20 mm flush
- Sensor head bidirectional and rotatable
- 2-wire DC
- Quick mounting bracket



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	20 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 16.2 mm
Actual operating distance	s_r	18 ... 22 mm
Reduction factor r_{Al}		0.33
Reduction factor r_{Cu}		0.31
Reduction factor r_{304}		0.74
Reduction factor r_{Brass}		0.41
Output type		2-wire

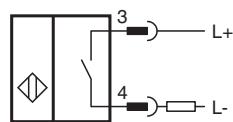
Nominal ratings

Operating voltage	U_B	5 ... 30 V DC
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Technical Data

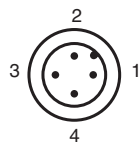
Switching frequency	f	0 ... 30 Hz
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 5 V
Voltage drop at I _L		
Voltage drop I _L = 100 mA, switching element on	U _d	... 5 V
Operating current	I _L	2 ... 100 mA
Off-state current	I _r	0 ... 0.5 mA
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1210 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)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		PA
Sensing face		PA
Degree of protection		IP69K
Connector		
Threading		M12 x 1
Number of pins		4
Mass		144 g
Dimensions		
Height		40 mm
Width		40 mm
Length		67 mm

Connection



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Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)