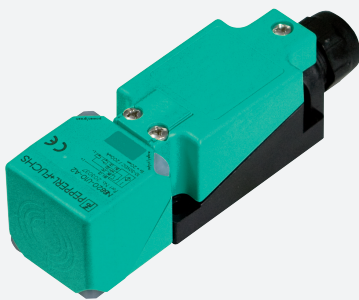


Inductive sensor

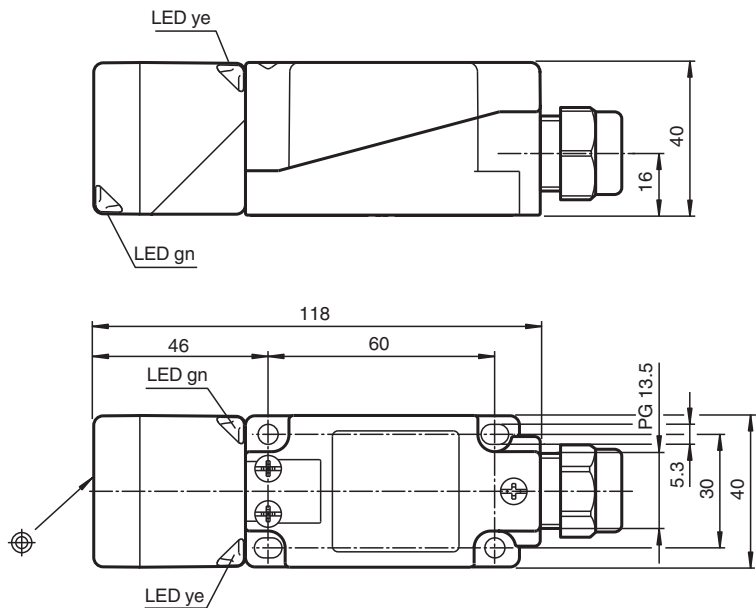
NBB15-U10-E2



- Sensor head bidirectional and rotatable
- 15 mm flush
- 4 LEDs indicator for 360° visibility
- With cable gland for cable diameters from 7 to 10.5 mm (extendable with different gasket)



Dimensions



Technical Data

General specifications			
Switching function		Normally open (NO)	
Output type		PNP	
Rated operating distance	s_n	15 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 12.15 mm	
Actual operating distance	s_r	13.5 ... 16.5 mm typ. 15 mm	
Reduction factor r_{AI}		0.33	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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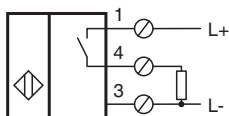
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PEPPERL+FUCHS

Technical Data

Reduction factor r_{Cu}		0.31
Reduction factor r_{304}		0.74
Reduction factor r_{Brass}		0.41
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 560 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	80 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1289 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		PG13.5 terminal compartment, core cross section ≤ 2.5 mm ²
Core cross-section		up to 2.5 mm ²
Housing material		PA/metal with epoxy powder coating
Sensing face		PA
Housing base		plastic
Degree of protection		IP68 / IP69K
Mass		225 g
Note		Tightening torque: 1.8 Nm (housing)

Connection



Accessories

	MHW 01	Modular mounting bracket
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Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 203003_eng.pdf