



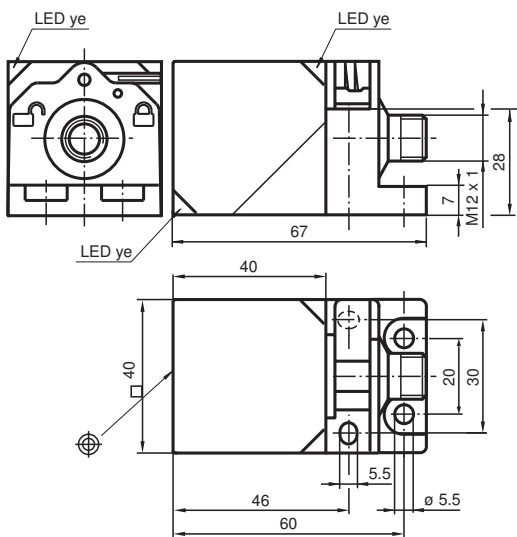
Inductive sensor

NBN40-L2-Z5-V1

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



Dimensions



Technical Data

General specifications			
Switching function		Normally closed (NC)	
Output type		Two-wire	
Rated operating distance	s_n	40 mm	
Installation		non-flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 32.4 mm	
Actual operating distance	s_r	36 ... 44 mm	
Reduction factor r_{Al}		0.33	
Reduction factor r_{Cu}		0.31	
Reduction factor r_{304}		0.75	
Reduction factor r_{Brass}		0.41	
Output type		2-wire	

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

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Technical Data

Nominal ratings

Operating voltage	U_B	3.8 ... 30 V DC
Switching frequency	f	0 ... 30 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.8 V
Voltage drop at I_L		
Voltage drop $I_L = 100$ mA, switching element on	U_d	... 3.8 V
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA
Switching state indicator		LED, yellow

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

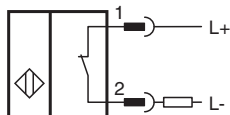
Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)

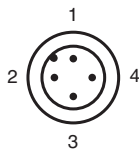
Mechanical specifications

Connection type		Connector plug M12 x 1 , 4-pin
Housing material		PA
Sensing face		PA
Degree of protection		IP69K

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Accessories

	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	MHW 01	Modular mounting bracket
	MH 02-L	Mounting aid

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