

Inductive sensor

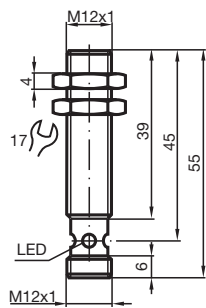
NBB2-12GS40-Z4L-V1



- 2 mm flush
- 2-wire DC sensor with minimum off-state current
- Switching status indicator, yellow LED



Dimensions



Technical Data

General specifications		
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Actual operating distance	s_r	1.8 ... 2.2 mm typ.
Reduction factor r_{Al}		0.14
Reduction factor r_{Cu}		0.14
Reduction factor r_{304}		0.48
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	3.7 ... 30 V
Switching frequency	f	0 ... 700 Hz
Hysteresis	H	1 ... 10 typ. 5 %

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

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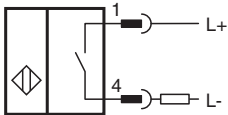
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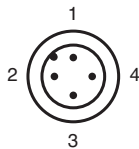
Technical Data

Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3.7\text{ V}$
Operating current	I_L	2 ... 30 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	$\leq 200\text{ }\mu\text{A}$
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		1879 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
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Release date: 2020-03-31 Date of issue: 2020-09-03 Filename: 274262_eng.pdf

Accessories

	BF 12	Mounting flange, 12 mm
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable