

Inductive sensor

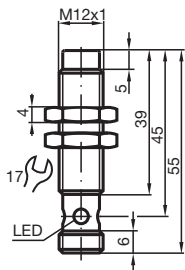
NBN4-12GS40-Z4L-V1



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



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire with minimum off-state current
Rated operating distance	s _n	4 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 3.24 mm
Actual operating distance	s _r	3.6 ... 4.4 mm typ.
Reduction factor r _{Al}		0.38
Reduction factor r _{Cu}		0.36
Reduction factor r ₃₀₄		0.77
Output type		2-wire
Nominal ratings		

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

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Technical Data

Operating voltage	U_B	3.7 ... 30 V
Switching frequency	f	0 ... 700 Hz
Hysteresis	H	1 ... 10 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3.7 V
Operating current	I_L	2 ... 30 mA
Off-state current	I_r	≤ 200 μ A
Switching state indicator		Multihole-LED, yellow

Functional safety related parameters

MTTF _d	1862 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

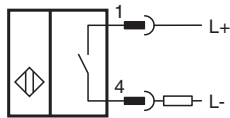
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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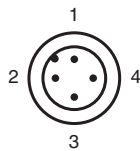
Mechanical specifications

Connection type	Connector plug 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)

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