

Inductive sensor

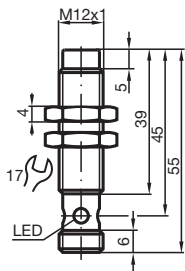
NCN8-12GM40-Z7-V1



- 8 mm non-flush
- 2-wire DC
- Increased operating distance



Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		Two-wire
Rated operating distance	s _n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 6.48 mm
Reduction factor r _{Al}		0.49
Reduction factor r _{Cu}		0.49
Reduction factor r ₃₀₄		0.74
Nominal ratings		
Operating voltage	U _B	3.5 ... 30 V
Switching frequency	f	0 ... 750 Hz
Hysteresis	H	typ. 3 %

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

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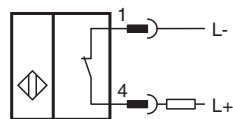
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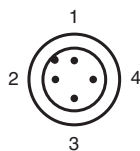
Technical Data

Reverse polarity protection		conducting
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3.5\text{ V}$
Temperature drift		$\pm 15\%$
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	0.4 ... 0.6 mA typ. 0.5 mA
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007 Non-standard connector assignment
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36\text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70\text{ }^\circ\text{C}$ ($-13 \dots 158\text{ }^\circ\text{F}$)
Storage temperature		$-40 \dots 85\text{ }^\circ\text{C}$ ($-40 \dots 185\text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
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: 2020-09-02 Date of issue: 2020-09-03 Filename: 180847_eng.pdf

Accessories

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