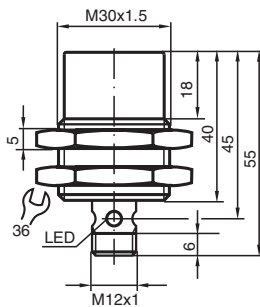


Inductive sensor NCN15-30GM40-Z0-V1

- 15 mm non-flush
- Extended temperature range
- 2-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.15 mm (-25 ... 70 °C (-13 ... 158 °F)) 0 ... 11.4 mm (-40 ... -25 °C (-40 ... -13 °F))
Actual operating distance	s_r	13.5 ... 16.5 mm typ.
Reduction factor r_{Al}		0.38
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.68
Output type		2-wire

Nominal ratings

Operating voltage	U_B	5 ... 60 V
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	1 ... 15 % typ. 5 %

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

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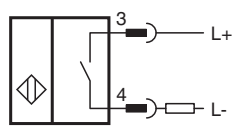
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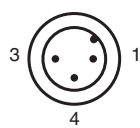
Technical Data

Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 5\text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 20\text{ mA}$, switching element on	U_d	3.4 ... 5 V typ. 4.3 V
Operating current	I_L	2 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ.
Time delay before availability	t_v	$\leq 50\text{ ms}$
Switching state indicator		Multihole-LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		3
Mass		100 g
Dimensions		
Length		40 mm
Diameter		30 mm

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

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