

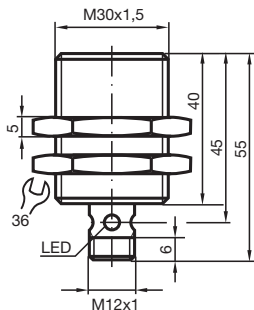
Inductive sensor

NCB10-30GM40-Z0-V1

- 10 mm 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	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 8.1 mm (-25 ... 70 °C (-13 ... 158 °F)) 0 ... 7.6 mm (-40 ... -25 °C (-40 ... -13 °F))
Actual operating distance	s _r	9 ... 11 mm typ. 10 mm
Reduction factor r _{AI}		0.32
Reduction factor r _{CU}		0.28
Reduction factor r ₃₀₄		0.7
Nominal ratings		
Operating voltage	U _B	5 ... 60 V

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

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PEPPERL+FUCHS

Technical Data

Switching frequency	f	0 ... 150 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 5 V
Voltage drop at I_L		
Voltage drop $I_L = 20$ 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	≤ 50 ms
Switching state indicator		Multihole-LED, yellow

Functional safety related parameters

MTTF _d		1830 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %

Compliance with standards and directives

Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)

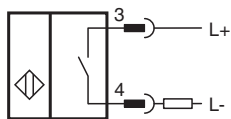
Ambient conditions

Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
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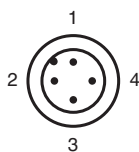
Mechanical specifications

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)

Accessories

	BF 30	Mounting flange, 30 mm
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable

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