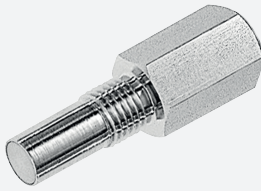


Inductive sensor

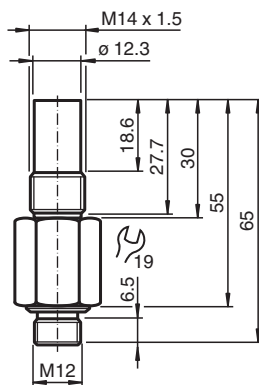
NCB3-14GM65-E2-D-V1



- 3 mm flush
- Operating pressure 500 bar, peak pressure 800 bar
- For applications in hydraulic cylinder



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	3 mm
Installation		flush
Output polarity		DC
Reduction factor r_{Al}		0
Reduction factor r_{Cu}		0
Reduction factor r_{304}		0.85
Reduction factor r_{Si37}		1
Reduction factor r_{Brass}		0.15
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	3 ... 15 % typ. 10 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 213969_eng.pdf

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

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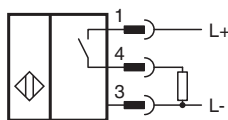
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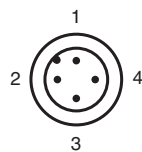
Technical Data

Repeat accuracy	R	0.1 mm
Temperature drift		± 15% max.
Operating current	I _L	≤ 200 mA
No-load supply current	I ₀	≤ 10 mA
Time delay before availability	t _v	≤ 10 ms
Limit data		
Operating pressure		500 bar (7252 psi)
Peak pressure		800 bar (11603.2 psi)
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
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 ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 80 °C (-13 ... 176 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		Ceramic
Degree of protection		IP68
Connector		
Threading		M12 x 1
Number of pins		4
Mass		64 g
Dimensions		
Length		65 mm
Diameter		12 mm

Connection



Connection Assignment



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

Wire colors in accordance with EN 60947-5-2

Additional Information

Technical drawing of a mechanical assembly showing a cross-section of a housing and a shaft with a pulley. The drawing includes dimensions for the pulley ($\varnothing 15.8 \pm 0.1$, $15^\circ \pm 1^\circ$), the shaft ($\varnothing 12.5$, M14x1.5), and the housing (Ra 2.8, ≥ 13 , ≥ 25 , ≥ 1.5 , $2.4 \begin{smallmatrix} 0 \\ +0.4 \end{smallmatrix}$, ≥ 11.5). A detail view of the O-ring (11.5 x 2) is shown on the right.