

Inductive sensor

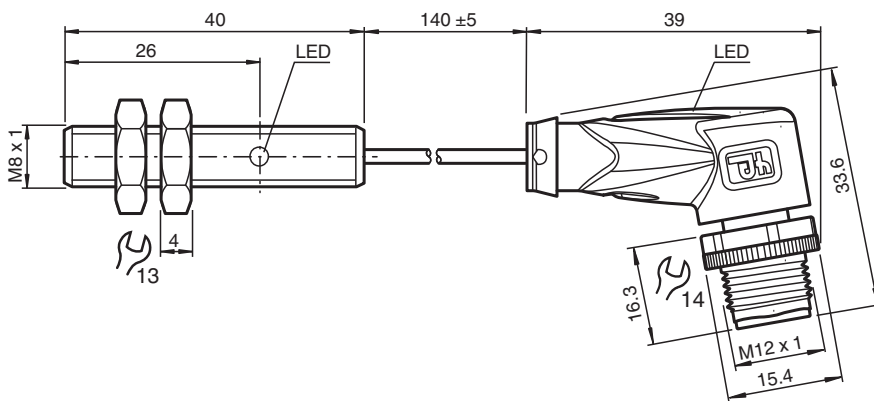
NJ1,5-8GM40-E2-0,14M-V1



- 1.5 mm flush
- Fixed cable with quick disconnect plug
- LEDs integrated into the plug to indicate operating status and function



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Reduction factor r_{AI}		0.25
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

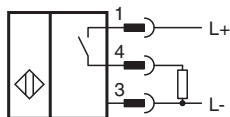
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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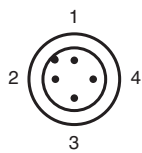
Technical Data

Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 100 mA
Off-state current	I _r	≤ 10 μA
No-load supply current	I ₀	≤ 20 mA
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF _d		2190 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		fixed cable with plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		LCP
Degree of protection		IP67
Connector		
Threading		M12 x 1
Tightening torque		≤ 0.6 Nm
Number of pins		3
Cable		
Cable diameter		3.5 mm ± 0.1 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		grey
Number of cores		3
Core cross section		0.14 mm ²
Length	L	0.14 m
Mass		30 g
Dimensions		
Length		40 mm
Diameter		8 mm

Connection



Connection Assignment



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