

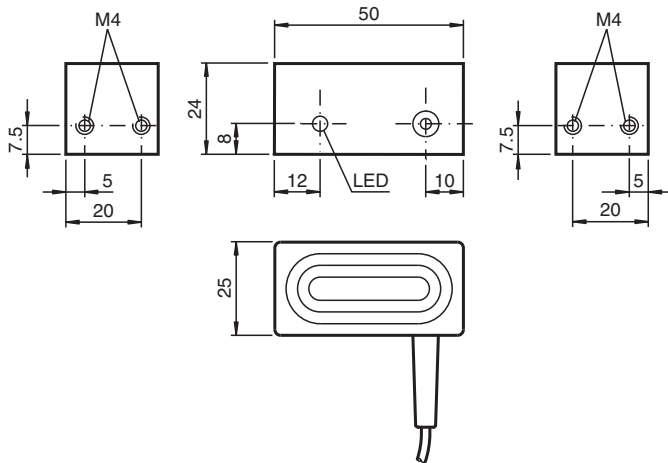
Inductive sensor

FJ7-N

■ 7 mm flush



Dimensions



Technical Data

General specifications			
Switching function			Normally closed (NC)
Output type			NAMUR
Rated operating distance	s_n		7 mm
Installation			flush
Assured operating distance	s_a		0 ... 5.67 mm
Reduction factor r_{Al}			0.4
Reduction factor r_{Cu}			0.3
Reduction factor r_{304}			0.85
Output type			2-wire
Nominal ratings			
Nominal voltage	U_o		8.2 V (R_i approx. 1 k Ω)
Operating voltage	U_B		5 ... 25 V
Switching frequency	f		0 ... 200 Hz
Hysteresis	H		typ. %
Current consumption			
Measuring plate not detected			≥ 3 mA at nominal voltage

Release date: 2024-05-27 Date of issue: 2024-05-31 Filename: 306134_eng.pdf

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

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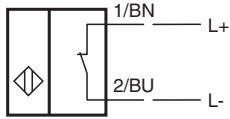
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Technical Data

Measuring plate detected		≤ 1 mA at nominal voltage
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		4080 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEx approval		
Equipment protection level Gb		IECEx PTB 11.0021X
Equipment protection level Mb		IECEx PTB 11.0021X
ATEX approval		
Equipment protection level Gb		PTB 00 ATEX 2032 X
Equipment protection level Gc (ic)		PF13CERT2895 X
CCC approval		
Hazardous Location		2020322315002304
NEPSI approval		
NEPSI certificate		GYJ16.1394X
CML approval		on request
ANZEx		19.3001X
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Cable, fixed		-25 ... 80 °C (-13 ... 176 °F)
Mechanical specifications		
Connection type		cable
Housing material		brass, zinc plated
Sensing face		POM
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.8 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		blue
Number of cores		2
Core cross section		0.34 mm ²
Length	L	2 m
Dimensions		
Height		24 mm
Width		50 mm
Length		25 mm
General information		
Use in the hazardous area		see instruction manuals

Connection



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