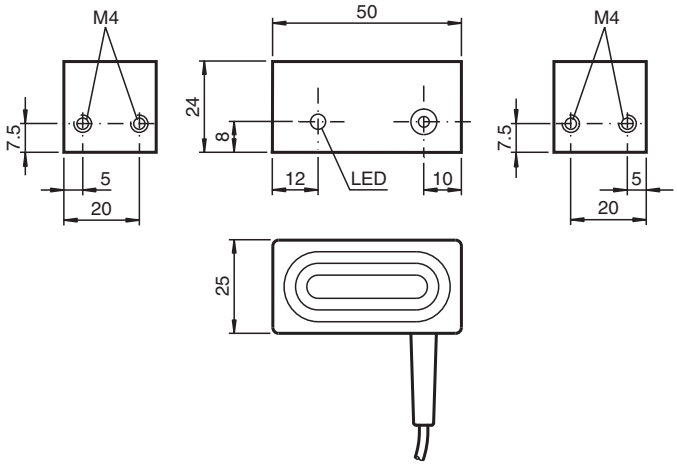
Inductive sensor

FJ7-N

- 7 mm flush
- NAMUR output

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 kΩ)
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

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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 installation		-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

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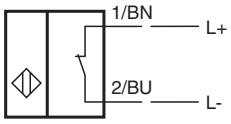
Connection Assignment



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