

Inductive sensor

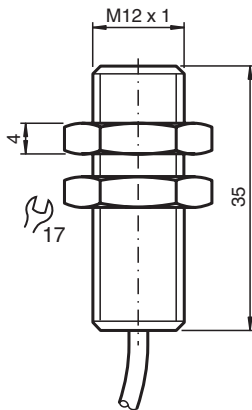
NJ2-12GM-N-5M



- 2 mm flush
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



Technical Data

General specifications			
Switching function			Normally closed (NC)
Output type			NAMUR
Rated operating distance	s_n		2 mm
Installation			flush
Assured operating distance	s_a		0 ... 1.62 mm
Reduction factor r_{AI}			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)
Switching frequency	f		0 ... 2000 Hz
Suitable for 2:1 technology			yes , Reverse polarity protection diode not required
Current consumption			
Measuring plate not detected			min. 3 mA
Measuring plate detected			\leq 1 mA

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

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Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)	SIL 2
MTTF _d	5887 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Compliance with standards and directives

Standard conformity	
NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

IECEX approval	
Equipment protection level Ga	IECEX PTB 11.0037X
Equipment protection level Gb	IECEX PTB 11.0037X
Equipment protection level Da	IECEX PTB 11.0037X
Equipment protection level Mb	IECEX PTB 11.0037X
ATEX approval	
Equipment protection level Ga	PTB 00 ATEX 2048 X
Equipment protection level Gb	PTB 00 ATEX 2048 X
Equipment protection level Da	PTB 00 ATEX 2048 X
UL approval	
Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0452
CCC approval	
Hazardous Location	2020322315002255
NEPSI approval	
NEPSI certificate	GYJ16.1393X
CML approval	on request
ANZEx	18.3018X
KCC approval	
Hazardous Location	19-AV4BO-0227

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
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Mechanical specifications

Connection type	cable	
Housing material	Stainless steel 1.4305 / AISI 303	
Sensing face	PBT	
Degree of protection	IP66 / IP67	
Cable		
Cable diameter	4.8 mm ± 0.2 mm	
Bending radius	> 10 x cable diameter	
Material	PVC	
Core cross section	0.34 mm ²	
Length	L	5 m
Dimensions		
Length	35 mm	
Diameter	12 mm	

General information

Use in the hazardous area	see instruction manuals
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Connection



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