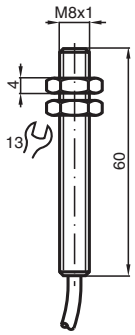


Inductive sensor

NJ1,5-8GM-N-Y70184407

- 1.5 mm flush
- NAMUR output
- Stainless steel housing
- Front face compression proof up to 10 bar

Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	1.5 mm
Installation		flush
Assured operating distance	s_a	0 ... 1.215 mm
Actual operating distance	s_r	1.35 ... 1.65 mm typ.
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)
Switching frequency	f	0 ... 5000 Hz
Hysteresis	H	1 ... 10 % typ. 5 %
Current consumption		
Measuring plate not detected		min. 3 mA

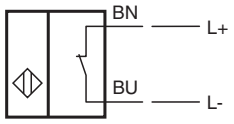
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Technical Data

Measuring plate detected		≤ 1 mA
Limit data		
Operating pressure		10 bar (145 psi) front face
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 2
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEx approval		
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 Gb		PTB 00 ATEX 2048 X
Equipment protection level Da		PTB 00 ATEX 2048 X
UL approval		cURus Recognized Load Type: General Purpose Circuitry: Class 2 Power Source Supply/Switching Voltage: 8.2 V DC Further UL information see section "Additional Information"
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0452
CML approval		on request
ANZEx		18.3018X
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Mechanical specifications		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		2.6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		blue
Number of cores		2
Core cross section		0.14 mm^2
Length	L	5 m
Dimensions		
Length		60 mm
Diameter		8 mm
General information		
Use in the hazardous area		see instruction manuals

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Connection Assignment



Additional Information

Additional UL Information
Conditions of Acceptability:
Suitability of the mounting means shall be determined in the end use application. The suitability of connection between supply connection and the end connector shall be determined in the end-use application.
The supply connections for these devices are intended for factory wiring only.
These devices shall be used within their recognized electrical ratings.
These proximity switches are intended to be powered by Listed Class 2 power supply or are located in a limited voltage / limited current circuit.

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