## **Dimensions**

**Technical Data** 

General specifications Switching element function



**CE** 0102



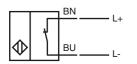
## **Model Number**

NJ1,5-8GM-N-5M-Y221988

## Features

- **Comfort series** •
- 1.5 mm flush

## Connection

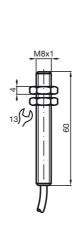


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	Switching element function		NAMOR, NO	
	Rated operating distance	s <sub>n</sub>	1.5 mm	
	Installation		flush	
	Output polarity		NAMUR	
	Assured operating distance	sa	0 1.215 mm	
	Reduction factor r <sub>Al</sub>		0.4	
	Reduction factor r <sub>Cu</sub>		0.3	
	Reduction factor r <sub>304</sub>		0.85	
	Nominal ratings			
	Nominal voltage	Uo	8 V	
	Switching frequency	f	0 5000 Hz	
	Hysteresis	Н	1 10 typ. 5 %	
	Current consumption			
	Measuring plate not detected		≥ 3 mA	
	Measuring plate detected		≤ 1 mA	
	Ambient conditions			
	Ambient temperature		-25 100 °C (-13 212 °F)	
Mechanical specifications				
	Connection type		cable PVC , 5 m	
	Core cross-section		0.14 mm <sup>2</sup>	
	Housing material		Stainless steel 1.4305 / AISI 303	
	Sensing face		PBT	
	Protection degree		IP67	
General information				
	Use in the hazardous area		see instruction manuals	
	Category		2G	
Compliance with standards and directives				
Standard conformity				
	NAMUR		EN 60947-5-6:2000	
			IEC 60947-5-6:1999	
	Standards		EN 60947-5-2:2007	
			IEC 60947-5-2:2007	
Approvals and certificates				
	FM approval		FM Class I, Div.1	
1	UL approval		cULus Listed, General Purpose	
I	CSA approval		cCSAus Listed, General Purpose	
1				

NAMUR, NC

Inductive sensor	NJ1,5-8GM-N-5M-Y22198
ATEX 2G	
Instruction	Manual electrical apparatus for hazardous areas
Device category 2G Directive conformity Standard conformity	for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
CE marking	<b>C €</b> 0102
Ex-identification	<ul><li>☑ II 2G Ex ia IIC T6 Gb</li></ul>
EC-Type Examination Certificate Appropriate type Effective internal capacitance C <sub>i</sub> Effective internal inductance L <sub>i</sub> General	PTB 00 ATEX 2048 X NJ 1,5-8GM-N $\leq$ 30 nF; a cable length of 10 m is considered. $\leq$ 50 µH; a cable length of 10 m is considered. The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to! Directive 94/9/EG and hence also EC-Type Examination Certificates apply in gene-
	ral only to the use of electrical apparatus under atmospheric conditions. The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces by the mentioned certification authority. If the equipment is not used under atmospheric conditions, a reduction of the per- missible minimum ignition energies may have to be taken into consideration.
Highest permissible ambient temperature	The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.
Installation, Comissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety. The sensor must be protected from strong electromagnetic fields.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	

When used in the temperature range below -20  $^\circ C$  the sensor should be protected from knocks by the provision of an additional housing.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

Protection from mechanical danger

Electrostatic charging

