

# **CE** 0102

# **Model Number**

NCN4-12GM35-N0-Y120069

#### **Features**

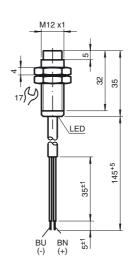
- **Comfort series**
- 4 mm non-flush

Technical Data			
General specifications			
Switching element function		NAMUR, NC	
Rated operating distance	s <sub>n</sub>	4 mm	
Installation		non-flush	
Output polarity		NAMUR	
Assured operating distance	sa	0 3.24 mm	
Reduction factor r <sub>Al</sub>		0.37	
Reduction factor r <sub>Cu</sub>		0.36	
Reduction factor r <sub>304</sub>		0.74	
Nominal ratings			
Nominal voltage	Uo	8 V	
Switching frequency	f	0 1800 Hz	
Hysteresis	Н	1 10 typ. 5 %	
Reverse polarity protection		reverse polarity protected	
Short-circuit protection		yes	
Current consumption			
Measuring plate not detected		$\geq$ 3 mA	
Measuring plate detected		≤ 1 mA	
Switching state indicator		all direction LED, yellow	
Standard conformity			
EMC in accordance with		IEC / EN 60947-5-2:2004; NE 21	
Ambient conditions			
Ambient temperature		-25 100 °C (-13 212 °F)	
Storage temperature		-40 100 °C (-40 212 °F)	
Mechanical specifications			
Connection type		cable PVC , 145 mm	
Core cross-section		2x0.34	
Housing material		Stainless steel	
Sensing face		PBT	
Degree of protection		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	

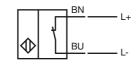
Standards

	Stainless steel
	PBT
	IP67
	see instruction manual
	2G
es	
	EN 60947-5-6:2000
	IEC 60947-5-6:1999

### **Dimensions**



# **Electrical Connection**



EN 60947-5-2:2007 IEC 60947-5-2:2007

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

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ATEX 2G	
Instruction	Manual electrical apparatus for hazardous areas
Device category 2G	for use in hazardous areas with gas, vapour and mist
EC-Type Examination Certificate	PTB 00 ATEX 2048 X
CE marking	<b>C €</b> 0102
ATEX marking	⟨िs⟩ II 2G EEx ia IIC T6
Directive conformity	94/9/EG
Standards	EN 50014:1997, EN 50020:1994 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type	NCN4-12GMN0
Effective internal capacitance C <sub>i</sub>	$\leq$ 95 nF ; a cable length of 10 m is considered.
Effective internal inductance Li	$\leq$ 100 $\mu$ H ; a cable length of 10 m is considered.
General	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 general 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 permis- sible minimum ignition energies may have to be taken into consideration.
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.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	
Protection from mechanical danger	When used in the temperature range below -20 $^\circ\mathrm{C}$ the sensor should be protected from knocks by the provision of an additional housing.
Electrostatic charging	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.

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