

(E 0102

Model Number

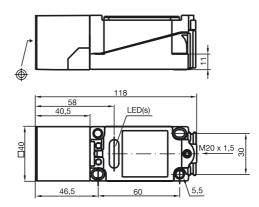
NCN20+U1M+N0

Features

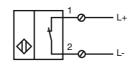
- Comfort series
- 20 mm non-flush

Technical Data		
General specifications		
Switching element function		NAMUR, NC
Rated operating distance	s _n	20 mm
Installation	- ''	non-flush
Output polarity		NAMUR
Assured operating distance	sa	0 16.2 mm
Reduction factor r _{Al}		0.37
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.79
Nominal ratings		
Installation conditions		
A		5 mm
В		
С		
Nominal voltage	Uo	8 V
Switching frequency	f	0 250 Hz
Hysteresis	Н	1 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Current consumption		
Measuring plate not detected		≥3 mA
Measuring plate detected		≤ 1 mA
Switching state indicator		LED, yellow
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Storage temperature		-40 100 °C (-40 212 °F)
Mechanical specifications		
Connection type		terminal compartment
Core cross-section		up to 2.5 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
General information		
Use in the hazardous area		see instruction manuals
Category		2G
Compliance with standards and d	irective	s
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007

Dimensions



Electrical Connection



ATEX 2G

Instruction

Device category 2G

EC-Type Examination Certificate

CE marking

ATEX marking

Directive conformity

Standards

Appropriate type

Effective internal capacitance Ci Effective internal inductance Li

General

Ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist PTB 00 ATEX 2032 X €0102

⟨ II 2G EEx ia IIC T6

NCN20+U...+N0...

EN 50014:1997, EN 50020:1994 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions

≤ 110 nF; a cable length of 10 m is considered.

 \leq 160 μ H; 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!

The temperature ranges, according to temperature class, are given in the EC-Type $\,$ Examination Certificate.

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.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.



FPEPPERL+FUCHS