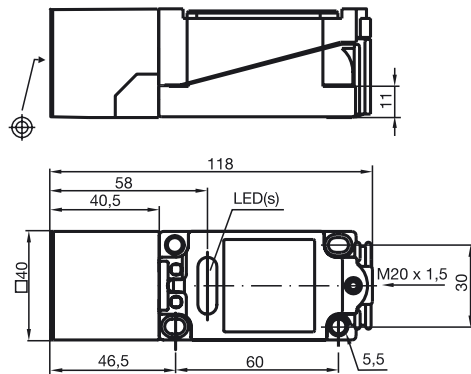


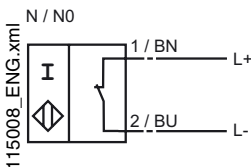
Comfort series
20 mm not embeddable



CE 0102

Switching element function	NAMUR NC
Rated operating distance s_n	20 mm
Installation	not embeddable
Assured operating distance s_a	0 ... 16,2 mm
Reduction factor r_{AI}	0,37
Reduction factor r_{Cu}	0,35
Reduction factor r_{V2A}	0,79
Mounting conditions	
A	5 mm
B	
C	
Nominal voltage U_o	8 V
Switching frequency f	0 ... 250 Hz
Hysteresis H	1 ... 15 typ. 5 %
Reverse polarity protection	Protected against reverse polarity
Short circuit protection	yes
Current consumption	
Measuring plate not detected	≥ 3 mA
Measuring plate detected	≤ 1 mA
Indication of the switching state	LED, yellow
EMC in accordance with	EN 60947-5-2; NE 21
Standards	DIN EN 60947-5-6 (NAMUR)
Ambient temperature	-25 ... 100 °C (248 ... 373 K)
Storage temperature	-40 ... 100 °C (233 ... 373 K)
Connection type	terminal compartment
Core cross-section	up to 2.5 mm ²
Housing material	PBT
Sensing face	PBT
Protection degree	IP68
Use in the hazardous area	see instruction manuals
Category	2G

Connection_type:



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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 50014:1997, EN 50020:1994

Ignition protection "Intrinsic safety"

Use is restricted to the following stated conditions

CE symbol

 0102

Ex-identification

 II 2G EEx ia IIC T6

EC-Type Examination Certificate

PTB 00 ATEX 2032 X

Assigned type

NCN20+U...+N0...

Effective internal capacitance C_i

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

Effective internal inductance L_i

≤ 160 μ 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 EU prototype test certificate must be observed. The special conditions must be adhered to!

Highest permissible ambient temperature

The temperature ranges, according to temperature class, are given in the EU prototype test certificate.

Installation, Commissioning

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.

[Fett]Special conditions

Protection from mechanical danger

The sensor must not be mechanically damaged.