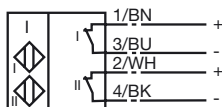


CE 0102

<b>General specifications</b>	
Switching element function	DC Dual Break function
Rated operating distance $s_n$	3 mm
Installation	embeddable
Assured operating distance $s_a$	0 ... 2.3 mm
Reduction factor $r_{Al}$	0.46
Reduction factor $r_{Cu}$	0.45
Reduction factor $r_{V2A}$	1.25
Reduction factor $r_{Ms}$	0.63
<b>Nominal ratings</b>	
Switching frequency $f$	0 ... 100 Hz
Hysteresis $H$	typ. 5 %
Reverse polarity protection	Protected against reverse polarity
Short-circuit protection	pulsing
Design data	
Indication of the switching state	LED, yellow
<b>Standard conformity</b>	
Standards	DIN EN 60947-5-6 (NAMUR)
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 100 °C (248 ... 373 K)
Storage temperature	-40 ... 100 °C (233 ... 373 K)
<b>Mechanical specifications</b>	
Connection type	160 mm
Cable version	4 x 0.14
Cable diameter	
Housing material	PBT/PPS
Protection degree	IP67
<b>General information</b>	
Use in the hazardous area	see instruction manuals
Category	2G

**Connection type:**

N4



## ATEX 2G

Instruction

### Device category 2G

Directive conformity

Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance  $C_i$

Effective internal inductance  $L_i$

General

Highest permissible ambient temperature

Installation, Commissioning

Maintenance

[Fett]Special conditions

Protection from mechanical danger

## Manual electrical apparatus for hazardous areas

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 0102

II 2G EEx ia IIC T6

TÜV 99 ATEX 1479 X

NCN3-F25.-N4...

$\leq 100$  nF ; a cable length of 10 m is considered. The value is applicable for the sensor circuit.

$\leq 100$   $\mu$ H ; a cable length of 10 m is considered. The value is applicable for the sensor circuit.

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!

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

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