

Product characteristics

Metal thread M10 x 1

Cable

Ambient pressure max. 100 bar

Operating distance 0.2...0.4 mm

ATEX approval

Group II, category 1G

[nf] non-flush mountable

Application

Application

Installation on aluminium measuring wheel DN80

Electrical data

Electrical design

Connection to certified intrinsically safe circuits with the max. values  $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$

Nominal voltage [V]

8.2 DC; (1kΩ)

Supply voltage [V]

7.5...30 DC; when used outside the hazardous area

Current consumption [mA]

< 1 disabled; (> 2.1 mA enabled)

Protection class

III

Outputs

Output function

normally closed

Current rating [mA]

30; when used outside the hazardous area

Switching frequency [Hz]

2000; on the aluminium measuring wheel

Accuracy / deviations

Hysteresis [% of Sr]

1...15

Environment

Pressure rating [bar]

100

Ambient temperature [°C]

-20...60

Protection

IP 67

Tests / approvals

Approval

PTB 01 ATEX 2192  
IECEX PTB 08.0058

Marking of the unit

- ⊕ II 1G Ex ia IIC T6 Ga Ta: -25...55° C
- ⊕ II 1G Ex ia IIC T5 Ga Ta: -25...60° C
- ⊕ II 1G Ex ia IIC T4 Ga Ta: -25...70° C
- ⊕ Ex ia IIC T6 Ga Ta: -25...55° C
- ⊕ Ex ia IIC T5 Ga Ta: -25...60° C
- ⊕ Ex ia IIC T4 Ga Ta: -25...70° C

EMC

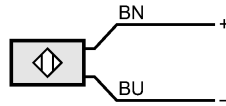
EN 60947-5-6

**N95000 - - eclass: 27270101 / 27-27-01-01**

Shock / vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
MTTF [Years]	6204
Safety classification	
Internal capacitance [nF]	< 90
Internal inductance [μH]	< 100
Mechanical data	
Mounting	non-flush mountable
Housing materials	brass special coating; active face: LCP
Weight [kg]	0.013
Electrical connection	
Connection	PVC wire / 0.5 m; 2 x 0.14 mm <sup>2</sup>

**Wiring**

Core colors  
 BN brown  
 BU blue



Remarks

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In principle, the type test according to 94/9/EC (ATEX) only takes atmospheric conditions (0.8...1.1 bar) into account. For pressures outside this range use must be assessed and approved by the user. Adhere to the operating instructions and the type test certificate.

Pack quantity [piece]

1