

Product characteristics

Rectangular, plastics

Cable

ATEX approval

Group II, category 1D

Group II, category 1G/2G

Sensing range 2 mm; [f] flush mountable

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; (1k $\Omega$ )

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]

800

Monitoring range

Sensing range [mm]

2

Real sensing range (Sr) [mm]

$2 \pm 10 \%$

Accuracy / deviations

Correction factors

mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3

Hysteresis [% of Sr]

1...15

Switch-point drift [% of Sr]

-10...10

Environment

Ambient temperature [°C]

-20...70

Protection

IP 67

Tests / approvals

Approval

PTB 02 ATEX 2217  
BVS 04 ATEX E153  
IECEX BVS 06.0003

Marking of the unit

Ⓔ II 1G Ex ia IIB T6 Ga Ta: -20...70° C  
Ⓔ II 2G Ex ia IIC T6 Gb Ta: -20...70° C  
Ⓔ II 1D Ex ia IIIC T90° C Da Ta: -20...70° C

EMC

EN 60947-5-6

Shock / vibration resistance

30 g (11 ms) / 10-55 Hz (1 mm)

MTTF [Years]

4459

Safety classification

**NS5003 - - eclass: 27270101 / 27-27-01-01**

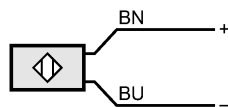
Internal capacitance	[nF]	≤ 80
Internal inductance	[μH]	≤ 110
Mechanical data		
Mounting		flush mountable
Housing materials		PBT
Weight	[kg]	0.079
Displays / operating elements		
Output status indication	LED	red
Electrical connection		
Connection		PVC cable / 2 m; 2 x 0.14 mm <sup>2</sup>

**Wiring**

Core colors

BN brown

BU blue



Remarks

Pack quantity	[piece]	1
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