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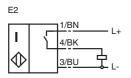
Model Number

NBN4-V3-E2-3D

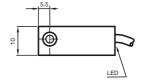
Features

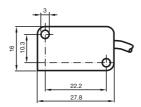
- Basic series
- 4 mm not embeddable

Connection



Dimensions





Technical Data

General specifications		
Switching element function		PNP Make function
Rated operating distance	s _n	4 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s _a	0 3.24 mm
Reduction factor r _{AI}		0.35
Reduction factor r _{Cu}		0.2
Reduction factor r _{V2A}		0.7
Nominal ratings		

Operating voltage	U_B	10 30 V
Switching frequency	f	0 500 Hz
Reverse polarity protection		yes
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	ΙL	0 100 mA
Off-state current	I _r	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Indication of the switching state		LED, vellow

LLB, your
IEC / EN 60947-5-2:2004
-25 70 °C (248 343 K)
130 mm, PVC cable
0.14 mm ²
PBT
PBT

Sensing face	PBT
Protection degree	IP67
General information	
Use in the hazardous area	see instruction manuals
Category	3D

ATEX 3D

Instruction Manual electrical apparatus for hazardous areas

Device category 3D for use in hazardous areas with non-conducting combustible dust

Directive conformity 94/9/FG Standard conformity EN 50281-1-1

Protection via housing Use is restricted to the following stated conditions

CE symbol

Ex-identification ⟨Ex⟩ II 3D IP67 T 99 °C X

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. General

The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!

Installation, Comissioning Laws and/or regulations and standards governing the use or intended usage goal must be observed.

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

[Fett]Special conditions

Maintenance

The maximum permissible load current must be restricted to the values given in the following list. Maximum operating current IL

High load currents and load short-circuits are not permitted.

Maximum operating voltage UBmax The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Toleran-

ces are not permitted.

Maximum heating (Temperature rise)

dependant of the load current I_L and the max. operating voltage U_{Bmax} . Information can be taken from the following list. The maximum surface temperature at maximum ambient temperature

is given in the Ex identification of the apparatus.

at U_{Bmax} =30 V, I_{L} =100 mA 29 °C at U_{Bmax}=30 V, I_L=50 mA 28 °C at U_{Bmax} =30 V, I_{L} =25 mA 25 °C

Protection from mechanical danger The sensor must not be mechanically damaged.

Protection of the connection cable The connection cable must be prevented from being subjected to tension and torsional loading