



CE

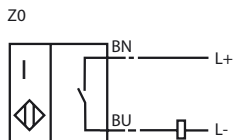
### Model Number

NCN8-18GM40-Z0-3D

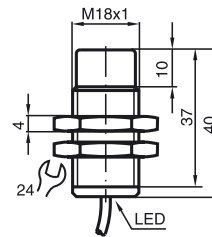
### Features

- Comfort series
- 8 mm not embeddable

### Connection



## Dimensions



## Technical Data

### General specifications

Switching element function	DC	Make function
Rated operating distance	$s_n$	8 mm
Installation	not embeddable	
Output polarity	DC	
Assured operating distance	$s_a$	0 ... 6.5 mm
Reduction factor $r_{AI}$	0.44	
Reduction factor $r_{Cu}$	0.4	
Reduction factor $r_{V2A}$	0.7	

### Nominal ratings

Operating voltage	$U_B$	5 ... 60 V
Switching frequency	$f$	0 ... 300 Hz
Hysteresis	$H$	1 ... 10 typ. 5 %
Reverse polarity protection	tolerant	
Short-circuit protection	pulsing	
Voltage drop	$U_d$	$\leq 5$ V
Operating current	$I_L$	2 ... 100 mA
Off-state current	$I_r$	0 ... 0.5 mA typ.
Indication of the switching state	all direction LED, yellow	

### Standard conformity

Standards	IEC / EN 60947-5-2:2004
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### Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
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### Mechanical specifications

Connection type	2 m, PUR cable
Cable version	PA
Core cross-section	0.34 mm <sup>2</sup>
Housing material	Stainless steel
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**

Directive conformity

Standard conformity

CE symbol

Ex-identification

General

Installation, Commissioning

Maintenance

[Fett]Special conditions

Maximum operating current  $I_L$ Maximum operating voltage  $U_{Bmax}$ 

Maximum heating (Temperature rise)

at  $U_{Bmax}=60\text{ V}$ ,  $I_L=100\text{ mA}$ at  $U_{Bmax}=60\text{ V}$ ,  $I_L=50\text{ mA}$ at  $U_{Bmax}=60\text{ V}$ ,  $I_L=25\text{ mA}$ 

Protection from mechanical danger

Electrostatic charging

Protection of the connection cable

for use in hazardous areas with non-conducting combustible dust

94/9/EG

EN 50281-1-1

Protection via housing

Use is restricted to the following stated conditions

CE

Ex II 3D IP67 T 89 °C X

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

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

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.

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

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

The maximum permissible operating voltage  $U_{Bmax}$  must be restricted to the values given in the following list. Tolerances are not permitted.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.

19 °C

13 °C

9 °C

The sensor must not be mechanically damaged.

Electrostatic charges on the metal housing components must be avoided. Dangerous electrostatic charges on the metal housing components can be avoided by incorporating these components in the equipotential bonding.

The connection cable must be prevented from being subjected to tension and torsional loading.