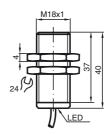
Dimensions



CE

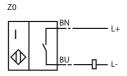
Model Number

NCB5-18GM40-Z0-3D-10M

Features

- Comfort series
- 5 mm embeddable

Connection



Technical Data		
General specifications		
Switching element function		DC Make function
Rated operating distance	s _n	5 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	s _a	0 4.05 mm
Reduction factor r _{Al}		0.37
Reduction factor r _{Cu}		0.33
Reduction factor r _{V2A}		0.7
Nominal ratings		
Operating voltage	U_B	5 60 V
Switching frequency	f	0 350 Hz
Hysteresis	Н	1 10 typ. 5 %
Reverse polarity protection		tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 5 V
Operating current	ΙL	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
Ambient conditions		
Ambient temperature		-25 70 °C (248 343 K)
Mechanical specifications		
Connection type		10 m, PUR cable
Cable version		PA
Core cross-section		0.34 mm ²
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 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

The Ex-significant identification is on the enclosed adhesive label

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.

The adhesive label provided must be affixed in the immediate vicinity of the sensor! The surface to which the label is

applied must be clean, flat and free from grease!

The affixed adhesive label must be readable and durable, taking account of the possibility of chemical corrosion.

Maintenance No changes can be made to apparatus, which are operated in hazardous areas.

Repairs to these apparatus are not possible.

[Fett]Special conditions

Maximum operating current II 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.

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} =60 V, I_{L} =100 mA 21 °C at U_{Bmax} =60 V, I_{L} =50 mA 14 °C at U_{Bmax} =60 V, I_{L} =25 mA 10 °C

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

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