





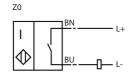
Model Number

NCB2-12GM40-Z0-3D

Features

- Comfort series
- · 2 mm embeddable

Connection

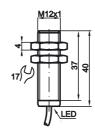


Accessories

BF 12 Mounting flange EXG-12 Mounting aid

Release date: 2009-05-07 10:30 Date of issue: 2009-05-07 183039_ENG.xml

Dimensions



Technical DataGeneral specifications

deficial specifications				
	Switching element function		DC Make function	
	Rated operating distance	s _n	2 mm	
	Installation		embeddable	
	Output polarity		DC	
	Assured operating distance	sa	0 1.62 mm	
	Reduction factor r _{Al}		0.28	
	Reduction factor r _{Cu}		0.23	
	Reduction factor r _{V2A}		0.7	

Nominal ratings Operating voltage

Switching frequency	f	0 800 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	l _r	0 0.5 mA typ.
Indication of the switching state		all direction LED, yellow

 U_B

Standard conformity

Standards IEC / EN 60947-5-2:2004

Ambient conditions

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

Mechanical specifications

Connection type 2 m, PUR cable
Cable version PA
Core cross-section 0.14 mm²
Housing material Stainless steel
Sensing face PBT
Protection degree IP67

Protection degree General information

Use in the hazardous area see instruction manuals
Category 3D

Approvals and certificates

CCC approval Certified by China Compulsory Certification (CCC)

5 ... 60 V

www.pepperl-fuchs.com

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 CE symbol

Ex-identification ⟨Ex⟩ II 3D IP67 T 96 °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

Maximum operating current IL 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.

26 °C at U_{Bmax} =60 V, I_{L} =100 mA at U_{Bmax} =60 V, I_{L} =50 mA 15 °C at U_{Bmax} =60 V, I_{L} =25 mA 11 °C

Protection of the connection cable

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.

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

FPEPPERL+FUCHS