



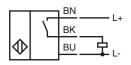
Model Number

NCB1,5-18GM60-E2-D-3D

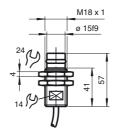
Features

- Comfort series
- 1.5 mm embeddable
- Compression proof up to 350 bar, dynamic on active surface

Connection



Dimensions



Technical Data		
General specifications		
Switching element function		PNP NO
Rated operating distance	s _n	1.5 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 1.22 mm
Reduction factor r _{Al}		0.3
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.5
Nominal ratings		
Operating voltage	U_B	10 60 V
Switching frequency	f	0 1500 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤3 V
Operating current	١L	0 200 mA
No-load supply current	I ₀	≤ 10 mA
Limit data		
Operating pressure dynamically		350 bar (5076.4 psi)
Standard conformity		
EMC in accordance with		IEC / EN 60947-5-2:2004
Standards		IEC / EN 60947-5-2:2004
Ambient conditions		
Ambient temperature		-35 80 °C (-31 176 °F)
Mechanical specifications		
Core cross-section		0.34 mm ²
Housing material		Stainless steel
Sensing face		Epoxy (black)
Protection degree		IP67
General information		
Use in the hazardous area		see instruction manuals
Category		3D
oalogory		

ATEX 3D

Instruction

Manual electrical apparatus for hazardous areas

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

Directive conformity 94/9/EG EN 50281-1-1 Standard conformity Protection via housing

Use is restricted to the following stated conditions

 $C \in I$ CE symbol

Ex-identification General

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.

Special conditions

Maintenance

Installation, Comissioning

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 U_{Bmax} The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Tolerances

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} =200 mA 18 K at U_{Bmax} =60 V, I_{L} =50 mA 17 K 14 K at U_{Bmax} =30 V, I_{L} =200 mA at U_{Bmax}=30 V, I_L=100 mA 13 K

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

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

Protection of the connection cable

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

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