



## Model Number

NCN15-30GM40-Z0-3G-3D

## Features

- 15 mm non-flush
- ATEX-approval for zone 2 and zone 22

## Accessories

### BF 30

Mounting flange, 30 mm

## Technical Data

### General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	$s_n$	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 12.2 mm
Actual operating distance	$s_r$	13.5 ... 16.5 mm typ.
Reduction factor $r_{Al}$		0.38
Reduction factor $r_{Cu}$		0.35
Reduction factor $r_{304}$		0.68
Output type		2-wire

### Nominal ratings

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

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

### Mechanical specifications

Connection type	cable PVC, 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	PBT
Degree of protection	IP67
Cable	
Bending radius	> 10 x cable diameter

### General information

Use in the hazardous area	see instruction manuals
Category	3G; 3D

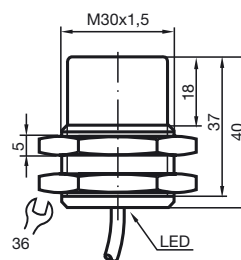
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

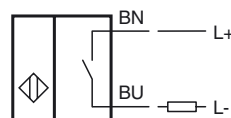
### Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

## Dimensions




## Electrical Connection



**Equipment protection level Gc (nA)**

Certificate	PF 15CERT3754 X
CE marking	<b>CE</b>

ATEX marking	 II 3G Ex nA IIC T6 Gc The Ex-related marking can also be printed on the enclosed label.
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Standards	EN 60079-0:2012+A11:2013, EN 60079-15:2010 Ignition protection category "n" Use is restricted to the following stated conditions
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**Special conditions**

Maximum operating current  $I_L$  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  $U_{Bmax}$  The maximum permissible operating voltage  $U_{Bmax}$  is restricted to the values in the following list. Tolerances are not permissible.

Maximum permissible ambient temperature  $T_{Umax}$  dependant of the load current  $I_L$  and the max. operating voltage  $U_{Bmax}$   
Information can be taken from the following list.

at $U_{Bmax}=60$ V, $I_L=100$ mA	54 °C (129.2 °F)
at $U_{Bmax}=60$ V, $I_L=50$ mA	59 °C (138.2 °F)
at $U_{Bmax}=60$ V, $I_L=25$ mA	62 °C (143.6 °F)
at $U_{Bmax}=30$ V, $I_L=5$ mA	64 °C (147.2 °F)

**Equipment protection level Dc (tc)**

CE marking	<b>CE</b>
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ATEX marking	 II 3D Ex tc IIIC T80°C Dc The Ex-related marking can also be printed on the enclosed label.
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Standards	EN 60079-0:2012+A11:2013, EN 60079-31:2014 Protection by enclosure "tc" Some of the information in this instruction manual is more specific than the information provided in the datasheet.
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General	The corresponding datasheets, declarations of conformity, EC-type examination certificates, certifications, and control drawings, where applicable (see datasheets), form an integral part of this document. These documents can be found at <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> . The maximum surface temperature of the device was determined without a layer of dust on the apparatus. Some of the information in this instruction manual is more specific than the information provided in the datasheet.
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