



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_{A1}		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	≤ 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 ²
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

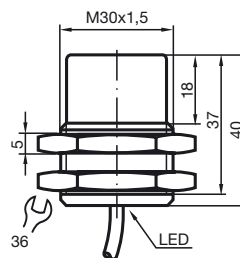
Compliance with standards and directives

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

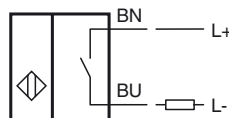
Approvals and certificates

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 **CE**

ATEX marking **Ex** II 3G Ex nA IIC T6 Gc
 The Ex-related marking can also be printed on the enclosed label.

Standards EN 60079-0:2012+A11:2013, EN 60079-15:2010
 Ignition protection category "n"
 Use is restricted to the following stated conditions

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 $U_{Bmax}=60\text{ V}$, $I_L=100\text{ mA}$ 54 °C (129.2 °F)

at $U_{Bmax}=60\text{ V}$, $I_L=50\text{ mA}$ 59 °C (138.2 °F)

at $U_{Bmax}=60\text{ V}$, $I_L=25\text{ mA}$ 62 °C (143.6 °F)

at $U_{Bmax}=30\text{ V}$, $I_L=5\text{ mA}$ 64 °C (147.2 °F)

Equipment protection level Dc (tc)

CE marking **CE**

ATEX marking **Ex** II 3D Ex tc IIIC T80°C Dc
 The Ex-related marking can also be printed on the enclosed label.

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.

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 www.pepperl-fuchs.com. 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.

Special conditions

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.

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