

Model Number

NBN4-V3-E2-3G-3D

Features

- 4 mm non-flush ٠
- 3-wire DC .
- ATEX-approval for zone 2 and zone 22 •

Technical Data	
General specifications	
Switching function	
Output type	
Rated operating distance	s _n
Installation	
Output polarity	
Assured operating distance	sa
Reduction factor r _{Al}	
Reduction factor r _{Cu}	
Reduction factor r ₃₀₄	
Output type	
Nominal ratings	
Operating voltage	UB
Switching frequency	f
Reverse polarity protection	
Short-circuit protection	
Voltage drop	Ud
Operating current	ΙL
Off-state current	l _r
No-load supply current	I ₀
Switching state indicator	
Ambient conditions	
Ambient temperature	
Mechanical specifications	
Connection type	
Core cross-section	
Housing material	
Sensing face	
Degree of protection	
Cable	
Bending radius	
General information	
Use in the hazardous area	
Category	
Compliance with standards and	
directives	
Standard conformity	
Standards	
Approvals and certificates	

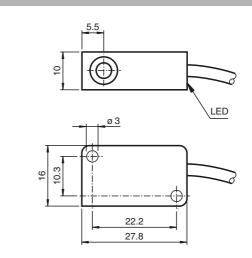
- UL approval CSA approval CCC approval

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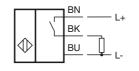
	Normally open (NO)
	PNP
s _n	4 mm
	non-flush
	DC
sa	0 3.24 mm
	0.35
	0.2
	0.7
	3-wire
UB	10 30 V DC
f	0 500 Hz
	yes
	pulsing
Ud	≤ 3 V
۱L	0 100 mA
l _r	0 0.5 mA typ. 0.1 μA at 25 °C
I ₀	≤ 15 mA
	LED, yellow
	-25 70 °C (-13 158 °F)
	cable PVC , 130 mm
	0.14 mm^2
	PBT
	PBT
	IP67
	> 10 x cable diameter
	see instruction manuals
	3G; 3D
	04,00
	EN 60947-5-2:2007
	IEC 60947-5-2:2007
	100000000000000000000000000000000000000

cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



Equipment protection level Gc (nA)

Certificate CE marking PF 15CERT3754 X

ATEX marking

CE

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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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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
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 UB max 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} =30 V, I _L =100 mA	41 °C (105.8 °F)
at U _{Bmax} =30 V, I _L =50 mA	42 °C (107.6 °F)
at U _{Bmax} =30 V, I _L =25 mA	42 °C (107.6 °F)
Equipment protection level Dc (tc)	
CE marking	CE
ATEX marking	$\langle \!$
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 $\mathrm{T}_{\mathrm{Umax}}$	dependant of the load current $I_{\rm L}$ and the max. operating voltage $U_{\rm Bmax}$ Information can be taken from the following list.
at U _{Bmax} =30 V, I _L =100 mA	41 °C (105.8 °F)
at U_{Bmax} =30 V, I _L =50 mA	42 °C (107.6 °F)
at U _{Bmax} =30 V, I _L =25 mA	42 °C (107.6 °F)

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