Properties

- Ø8 mm housing
- 3 mm, non-flush mountable
- DC, 3-wire switching output
- Cable and connector versions

Technical Data

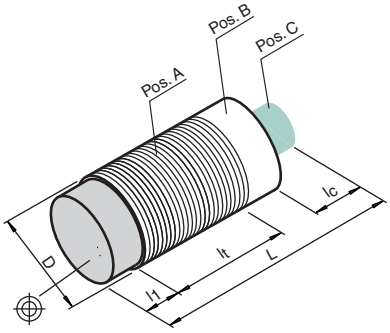
*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Rated operating distance	3 mm
Installation	non-flush
Type of voltage	DC
No-load supply current	≤ 15 mA
Reverse polarity protection	✔
Operating current	0 ... 100 mA
Short-circuit protection	pulsing
Indication of the switching state	LED, yellow
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Housing material	brass, nickel-plated
Protection degree	IP67

Model Number		NBN3-8GM30-E0	NBN3-8GM30-E2	NBN3-8GM50-E0	NBN3-8GM25-E0-V3	NBN3-8GM25-E1-V3	NBN3-8GM25-E2-V3	NBN3-8GM25-E3-V3	NBN3-8GM45-E2-V3	NBN3-8GM30-E0-V1	NBN3-8GM30-E2-V1
green = preferred type											
Switching element function	NPN NO	●		●	●					●	
	NPN NC					●					
	PNP NO		●				●		●		●
	PNP NC							●			
Operating voltage	10 ... 30 V	●	●	●			●	●	●	●	●
	5 ... 30 V				●	●					
Switching frequency	0 ... 1500 Hz			●							
	0 ... 2000 Hz	●	●		●	●	●	●	●	●	●
Connection type	Device connector M12 x 1 , 4-pin									●	●
	Device connector M8 x 1 , 3-pin				●	●	●	●	●		
	cable PVC , 2 m	●	●	●							

Approvals and Certificates											
UL approval	cULus Listed, General Purpose	●	●	●	●	●	●	●	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●	●	●	●	●	●	●	●
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.										

Dimensions										
Length L [mm]	30	30	50	29	29	29	29	55	49	49
Diameter D [mm]	8								8 / 12	
Thread length l_t [mm]	30	30	45	21	21	21	21	40	26	26
Cap length l_1 [mm]	4									
Connector area l_c [mm]	0			6						
LED position	Pos. C			Pos. B						



Accessories

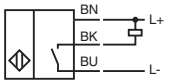
This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets
See pages 1068 ... for mounting aids

BF 8	Mounting flange, 8 mm
V1-G-BK	4-pin, M12 female field-attachable connector
V3-GM-2M-PUR	Cable socket, M8, 3-pin, PUR cable
V3-WM	Female connector, M8, 3-pin, field attachable
V3-GM	Female connector, M8, 3-pin, field attachable
V1-G-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V1-W-BK	4-pin, M12 female field-attachable connector

Electrical Connection

NBN3-8GM30-E0
NBN3-8GM50-E0



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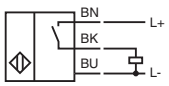

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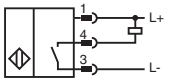

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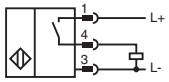
NBN3-8GM30-E2-V1
NBN3-8GM45-E2-V3



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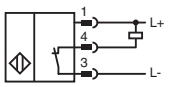

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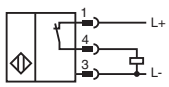

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Date of issue: 04/08/2015

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
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