Properties

- Ø8 mm housing
- 2 mm, flush mountable
- DC, 3-wire and 4-wire switching output versions
- Cable and connector versions

Technical Data

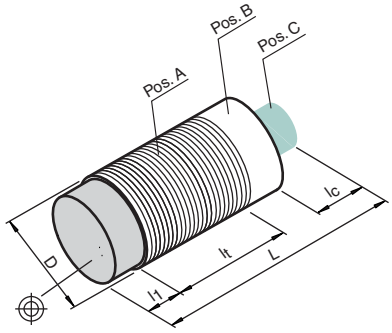
*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Rated operating distance	2 mm
Installation	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
Housing material	brass, nickel-plated
Protection degree	IP67

Model Number	green = preferred type		NBB2-8GM30-E0	NBB2-8GM30-E2	NBB2-8GM40-E2	NBB2-8GM50-E0	NBB2-8GM50-E2	NBB2-8GM25-E0-V3	NBB2-8GM25-E1-V3	NBB2-8GM25-E2-V3	NBB2-8GM25-E3-V3	NBB2-8GM40-E2-V3	NBB2-8GM40-E3-V3	NBB2-8GM30-E0-V1	NBB2-8GM30-E2-V1	NBB2-8GM30-A0-V1	NBB2-8GM30-A2-V1	NBB2-8GM40-E0-V1	NBB2-8GM40-E2-V1
Switching element function	NPN	NO/NC														●			
	NPN	NO	●			●		●							●			●	
	NPN	NC							●										
	PNP	NO/NC															●		
	PNP	NO		●	●		●			●		●		●		●			●
	PNP	NC									●		●						
Operating voltage	10 ... 30 V DC		●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●
	5 ... 30 V DC							●	●										
Switching frequency	0 ... 1000 Hz															●	●		
	0 ... 1500 Hz					●	●												●
	0 ... 2000 Hz												●						
	0 ... 3000 Hz		●	●	●			●	●	●	●	●		●	●				
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)		●	●	●	●	●	●	●	●	●			●	●	●	●	●	●
	-25 ... 80 °C (-13 ... 176 °F)											●	●						
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	40	50	29		50	49	59
Diameter D [mm]	8						8 / 12	
Thread length l_t [mm]	30	40	50	25		40	30	40
Cap length l_1 [mm]	0							
Connector area l_c [mm]	0			6				
LED position	Pos. C			Pos. B				



Accessories

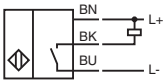
This and more accessories can be found in chapter 10

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

V1-G-BK	4-pin, M12 female field-attachable connector
BF 8	Mounting flange, 8 mm
EXG-08	Quick mounting bracket with dead stop
V3-GM-2M-PUR	Cable socket, M8, 3-pin, PUR cable
V1-G-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable

Electrical Connection

NBB2-8GM30-E0
NBB2-8GM50-E0



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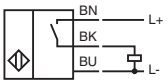
NBB2-8GM40-E2
NBB2-8GM50-E2



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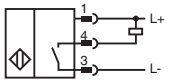

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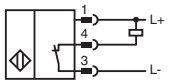

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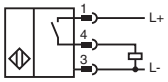
NBB2-8GM40-E2-V1



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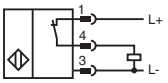

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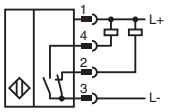

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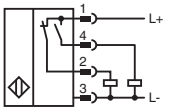

Wire colors in accordance with EN 60947-5-2

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

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