Properties

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

Technical Data

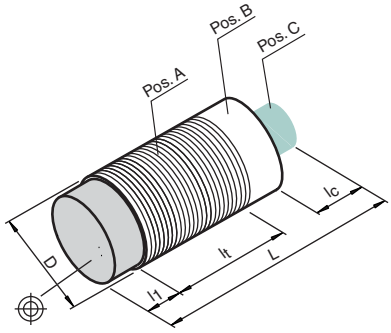
*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Rated operating distance	3 mm
Installation	virtually flush
Type of voltage	DC
Operating voltage	10 ... 30 V DC
No-load supply current	≤ 15 mA
Reverse polarity protection	✔
Operating current	0 ... 200 mA
Switching frequency	0 ... 1500 Hz
Short-circuit protection	pulsing
Indication of the switching state	LED, yellow
Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Protection degree	IP67
Housing material	brass, nickel-plated

Model Number	green = preferred type		NEB3-8GM45-E0	NEB3-8GM45-E1	NEB3-8GM45-E2	NEB3-8GM45-E3	NEB3-8GM45-E0-V3	NEB3-8GM45-E1-V3	NEB3-8GM45-E2-V3	NEB3-8GM45-E3-V3	NEB3-8GM45-E0-V1	NEB3-8GM45-E1-V1	NEB3-8GM45-E2-V1	NEB3-8GM45-E3-V1
Switching element function	NPN	NO	●				●				●			
	NPN	NC		●				●				●		
	PNP	NO			●				●				●	
	PNP	NC				●				●				●
Connection type	Device connector M12 x 1 , 4-pin										●	●	●	●
	Device connector M8 x 1 , 3-pin						●	●	●	●				
	cable PUR , 2 m		●	●	●	●								

Approvals and Certificates		
UL approval	cULus 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]	45	60	66
Diameter D [mm]	8		8 / 12
Thread length l_t [mm]	45		44
Cap length l_1 [mm]	0		
Connector area l_c [mm]	0	6	10
LED position	Pos. A		



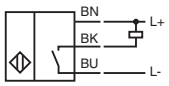
Accessories

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	Female connector, M8, 3-pin, field attachable
V1-G-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V3-GM-2M-PUR	Cable socket, M8, 3-pin, PUR cable
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V3-WM-2M-PUR	Cable socket, M8, 3-pin, PUR cable

Electrical Connection

NEB3-8GM45-E0



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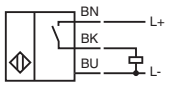

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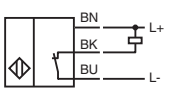

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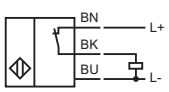

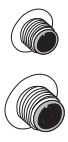

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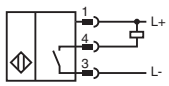

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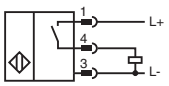

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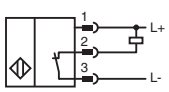

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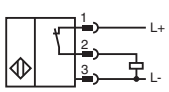

Wire colors in accordance with EN 60947-5-2

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

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