Technical Data

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

General Data	
Rated operating distance	8 mm
Installation	flush
Type of voltage	DC
Operating voltage	10 ... 30 V
Reverse polarity protection	✔
Switching frequency	0 ... 500 Hz
Short-circuit protection	pulsing
Indication of the switching state	LED, yellow
Housing material	brass, nickel-plated
Protection degree	IP67

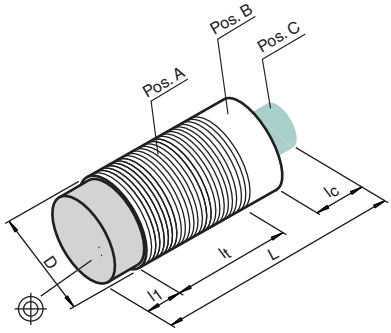
Model Number			NBB8-18GM30-E2	NBB8-18GM30-E3	NBB8-18GM50-E0	NBB8-18GM50-E2	NBB8-18GM60-A0	NBB8-18GM60-A2	NBB8-18GM30-E2-V1	NBB8-18GM30-E3-V1	NBB8-18GM50-E0-V1	NBB8-18GM50-E2-V1	NBB8-18GM60-A0-V1	NBB8-18GM60-A2-V1
	green = preferred type													
Switching element function	NPN	NO/NC					●						●	
	NPN	NO			●						●			
	PNP	NO/NC						●						●
	PNP	NO	●			●			●			●		
	PNP	NC		●						●				
No-load supply current	≤ 15 mA		●	●	●	●			●	●	●	●		
	≤ 25 mA						●	●					●	●
Operating current	0 ... 100 mA		●	●					●	●				
	0 ... 200 mA				●	●	●	●			●	●	●	●
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)		●	●	●	●	●	●			●		●	
	-40 ... 70 °C (-40 ... 158 °F)								●	●		●		●
Connection type	Device connector M12 x 1 , 4-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	50	60	45	65	70	
Diameter D [mm]		18						
Thread length l_t [mm]		27	47	57	30	50	60	
Cap length l_1 [mm]		0						
Connector area l_c [mm]		0			15		10	
LED position	Pos.	C					B	

Properties

- Ø18 mm housing
- 8 mm, flush mountable
- DC, 3-wire and 4-wire switching output versions
- Cable and connector versions



Accessories

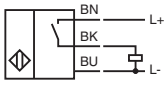
This and more accessories can be found in chapter 10

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

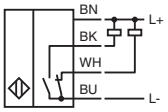
V1-G-BK	4-pin, M12 female field-attachable connector
V1-W-BK	4-pin, M12 female field-attachable connector
BF 18-F	Mounting flange with dead stop, 18 mm
BF 18	Mounting flange, 18 mm
V1-G-2M-PUR	Cable socket, M12, 4-pin, PUR cable
EXG-18	Quick mounting bracket with dead stop
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable

Electrical Connection

NBB8-18GM30-E2
NBB8-18GM50-E2



NBB8-18GM60-A0



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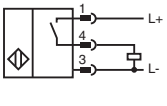

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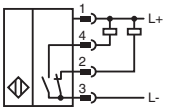

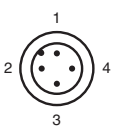

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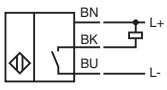

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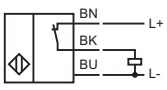

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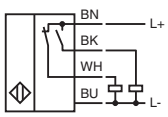

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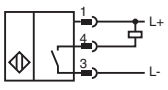

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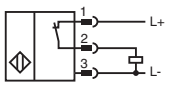

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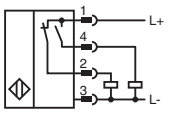

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