



### Technical Data

For detailed data and product description refer to the data sheets at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

#### General Data

Rated operating distance	12 mm
Installation	non-flush
Type of voltage	DC
Operating voltage	10 ... 30 V
Reverse polarity protection	✓
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

### Properties

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

#### Model Number

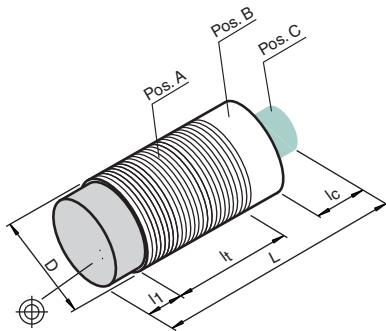
		green = preferred type	NBN12-18GM35-E2	NBN12-18GM50-E2	NBN12-18GM50-A0	NBN12-18GM50-A2	NBN12-18GM35-E2-V1	NBN12-18GM50-E2-V1	NBN12-18GM50-A0-V1	NBN12-18GM50-A2-V1
Switching element function	NPN	NO/NC			●				●	
	PNP	NO/NC				●				●
No-load supply current	≤ 12 mA		●	●	●	●	●	●	●	●
	≤ 20 mA									
Switching frequency	0 ... 200 Hz			●				●		
	0 ... 300 Hz		●				●			
	0 ... 1000 Hz				●	●			●	●
Operating current	0 ... 100 mA		●				●			
	0 ... 200 mA			●	●	●		●	●	●
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]	35.5	50	65
Diameter D [mm]		18	
Thread length l <sub>t</sub> [mm]	22.5	37	40
Cap length l <sub>1</sub> [mm]		10	
Connector area l <sub>c</sub> [mm]		0	15
LED position		Pos. C	



### Accessories

This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets

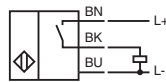
See pages 1068 ... for mounting aids

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

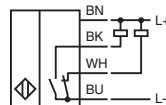
### Electrical Connection



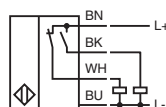
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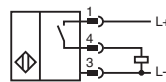
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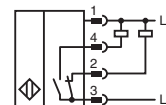
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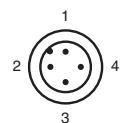
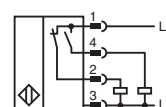
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NBN12-18GM50-E2-V1



NBN12-18GM50-A0-V1



NBN12-18GM50-A2-V1



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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