



Properties

- Ø8 mm housing
- 1.5 mm and 2 mm, flush mountable versions
- 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

Installation	flush
Type of voltage	DC
Operating voltage	10 ... 30 V DC
Reverse polarity protection	✓
Operating current	0 ... 200 mA
Short-circuit protection	✓
Indication of the switching state	LED, yellow
Housing material	Stainless steel 1.4305 / AISI 303
Protection degree	IP67

Model Number

		NBB1,5-8GS30-E2-T	NBB2-8GS30-E0	NBB2-8GS30-E1	NBB2-8GS30-E2	NBB2-8GS30-E3	NBB1,5-8GS40-E2-T-V3	NBB2-8GS40-E1-V3	NBB2-8GS40-E3-V3	NBB2-8GS30-E2-V1
Rated operating distance	1.5 mm	●					●			
	2 mm		●	●	●	●		●	●	●
Switching element function	NPN NO		●							
	NPN NC			●				●		
	PNP NO	●			●		●			●
	PNP NC					●			●	
No-load supply current	≤ 1 mA		●	●		●		●		
	≤ 5 mA									
	≤ 7 mA	●			●		●		●	●
Switching frequency	0 ... 1500 Hz	●					●			
	0 ... 2000 Hz									●
	0 ... 2500 Hz								●	
	0 ... 3500 Hz				●					
	0 ... 600 Hz		●	●		●		●		
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)	●	●	●	●	●	●	●	●	●
	-25 ... 85 °C (-13 ... 185 °F)		●	●	●	●		●	●	●
Connection type	connector (M8 x 1), 3-pin							●	●	
	Device connector M12 x 1, 4-pin									●
	Device connector M8 x 1, 3-pin						●			
	cable PUR, 2 m	●	●	●	●	●				

Approvals and Certificates

CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
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Dimensions

Length L [mm]	30	35	35	35	35	44	45	45	49
Diameter D [mm]					8				8/12
Thread length l _t [mm]	30	35	35	35	35	44	42	42	30
Cap length l ₁ [mm]					0				
Connector area l _c [mm]	0	0	0	0	0	6	0	0	6
LED position						Pos. C		Pos. A	

Accessories This and more accessories can be found in chapter 10

BF 8	Mounting flange, 8 mm	See pages 792 ... for cordsets	See pages 1068 ... for mounting aids
V3-WM-2M-PUR	Cable socket, M8, 3-pin, PUR cable		
V1-G-BK	4-pin, M12 female field-attachable connector		
V3-GM-2M-PUR	Cable socket, M8, 3-pin, PUR cable		
V3-GM	Female connector, M8, 3-pin, field attachable		

Electrical Connection

NBB2-8GS30-E0

NBB1,5-8GS30-E2-T
NBB2-8GS30-E2

NBB2-8GS30-E1

NBB2-8GS30-E3

NBB2-8GS40-E1-V3

NBB1,5-8GS40-E2-T-V3
NBB2-8GS30-E2-V1

NBB2-8GS40-E3-V3

Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
3		BU	(blue)
4		BK	(black)