

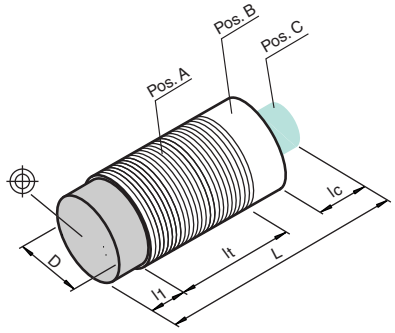
0102

Properties

- Ø18 mm housing
- Up to 8 mm, flush and non-flush mountable versions
- DC, NAMUR safety interface
- Cable version

Your Benefit

- Usable up to SIL 3 acc. to IEC 61508
- Usable in hazardous area
- Versions with high protection degree (IP68)
- Versions usable in applications that require extended temperature range up to +130 °C (266 °F)



Technical Data

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

General Data	
Nominal voltage	8 V DC
Connection type	cable silicon , 2 m



Model Number		NJ3-18GK-S1N	NJ3-18GK-S1N-130	NJ5-18GK-SN	NJ8-18GK-SN
Rated operating distance	3 mm	●	●		
	5 mm			●	
	8 mm				●
Installation	flush	●	●	●	
	non-flush				●
Switching element function	NAMUR, NO	●	●		
	NAMUR, NC			●	●
Current consumption					
Measuring plate not detected	≥ 3 mA			●	●
	≤ 1 mA	●	●		
Measuring plate detected	≥ 3 mA	●	●		
	≤ 1 mA			●	●
Switching frequency	0 ... 200 Hz	●	●		●
	0 ... 500 Hz			●	
Suitable for 2:1 technology	✔, Reverse polarity protection diode not required	●			
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)	●			
	-25 ... 130 °C (-13 ... 266 °F)		●		
	-40 ... 100 °C (-40 ... 212 °F)			●	●
Housing material	Hostalen PPN, black	●			●
	PP			●	
	PPS , PTFE		●		
Protection degree	IP65		●		
	IP68	●		●	●
Use in the Hazardous Area					
Use in the hazardous area	see instruction manuals	●		●	●
Category	1G; 2G; 3G; 1D	●		●	
	1G; 2G; 3G; 1D; 3D				●
Approvals and Certificates					
FM control drawing	116-0165F	●		●	●
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]		40.5		39	
Diameter D [mm]		18			
Thread length l_t [mm]		34.5			
Cap length l_1 [mm]		1			
Connector area l_c [mm]		0			
LED position		-			

Accessories

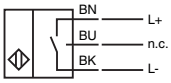
This and more accessories can be found in chapter 10
See pages from 974 ... for cordsets
See pages 1074 ... for mounting aids

BF 18	Mounting flange, 18 mm
EXG-18	Quick mounting bracket with dead stop

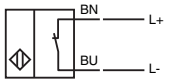
Electrical Connection



NJ3-18GK-S1N
NJ3-18GK-S1N-130



NJ5-18GK-SN
NJ8-18GK-SN



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