

1
.1.1



Proximity Sensors, Inductive Sensors, cylindrical

Properties

- Ø30 mm housing
- 10 mm flush and 15 mm non-flush and virtually flush mountable versions
- DC, NAMUR interface
- Cable and connector versions

Your Benefit

- ATEX approved sensor applicable up to zone 0 and zone 20
- Usable up to SIL2 acc. to IEC 61508

Technical Data

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

General Data

Switching element function	NAMUR, NC
Nominal voltage	8.2 V (R _i approx. 1 kΩ)
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Housing material	Stainless steel 1.4305 / AISI 303

Model Number

		NJ15-30GM-N	NCB10-30GM40-N0	NCB15-30GM40-N0	NCN15-30GM40-N0	NJ10-30GM-N-V1	NCB10-30GM40-N0-V1	NCB15-30GM40-N0-V1	NCN15-30GM40-N0-V1
Rated operating distance	10 mm 15 mm	●	●	●	●	●	●	●	●
Installation	flush non-flush virtually flush	●	●	●	●	●	●	●	●
Current consumption	Measuring plate not detected	●	●	●	●	●	●	●	●
	Measuring plate detected	●	●	●	●	●	●	●	●
Switching frequency	0 ... 100 Hz 0 ... 150 Hz 0 ... 200 Hz 0 ... 300 Hz 0 ... 450 Hz	●	●	●	●	●	●	●	●
Indication of the switching state	LED, yellow	●	●	●	●	●	●	●	●
Protection degree	IP65 IP67	●	●	●	●	●	●	●	●
Connection type	Device connector M12 x 1, 4-pin cable PVC, 2 m	●	●	●	●	●	●	●	●

Use in the Hazardous Area

Use in the hazardous area	see instruction manuals	●	●	●	●	●	●	●	●
Category	1G; 2G 1G; 2G; 1D 1G; 2G; 3G; 1D; 3D 1G; 2G; 3G; 3D	●	●	●	●	●	●	●	●

Approvals and Certificates

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	40	50	55
Diameter D [mm]	30	30		
Thread length l _t [mm]	22	37	22	40
Cap length l ₁ [mm]	0	0	18	0
Connector area l _c [mm]	0	0	10	15
LED position	-	Pos. C	-	Pos. C

Accessories

This and more accessories can be found in chapter 10

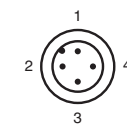
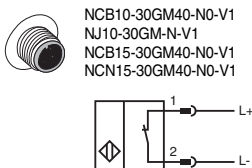
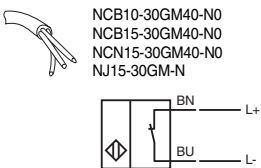
V1-G-N-2M-PUR

Cable socket, M12, 2-pin, NAMUR, PUR cable

V1-W-N-2M-PUR

Cable socket, M12, 2-pin, NAMUR, PUR cable

Electrical Connection



Wire colors in accordance with EN 60947-5-6

- 1 | BN (brown)
- 2 | BU (blue)