

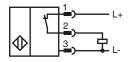
Model Number

NRB50-FP-E3-C-P3-V1

Features

- Reduction factor = 1
- 50 mm flush
- **Weld Immune**

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	l BN	(brown
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

V1-G

4-pin, M12 female field-attachable connector V1-W-2M-PUR

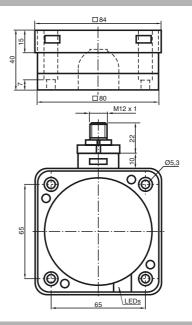
Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable V1-W

4-pin, M12 female field-attachable connector

Dimensions



Technical Data

General specifications			
Switching element function		PNP	NC
Rated operating distance	s _n	50 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 40.5 n	nm
Reduction factor r _{Al}		1	
Reduction factor r _{Cu}		1	
Reduction factor r ₃₀₄		1	
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Reduction factor r _{St37}		1
Nominal ratings		
Operating voltage	U_B	10 30 V
Switching frequency	f	0 1 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protected		reverse polarity protected
Voltage drop	U_d	≤3 V
Rated insulation voltage	U_{BIS}	50 V
Operating current	IL.	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow

Ambient conditions

0 ... 50 °C (32 ... 122 °F) (± 10 % changing operating distance) Ambient temperature -25 ... 70 °C (-13 ... 158 °F) (\pm 20 % changing operating distance)

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Housing material Sensing face PBT, PTFE coated Housing base Protection degree PBT IP68

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

Protection class Ш 60 V Rated insulation voltage U_i 800 V Design-impulse-voltage withstand U_{imp}

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

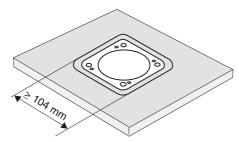
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Installation hint

These sensors are particularly suitable for embedded installation in floor conveyor systems. The installation of the switch in a metal base plate provides it with considerable protection against mechanical damage.

Care should be taken to ensure that the cut out in the base plate is at least 104 mm x 104 mm and that the sensor is positioned centrally within this cut out. The active surface of the sensor must not be recessed with respect to the front face of the base plate.

The high switching distance guarantees safe detection and thus control of the floor conveyor system.



Caution!

After removal of the metal screen the proximity switch can no longer be mounted as an embedded installation.

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