

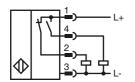
Model Number

NRB50-FP-A2-C-P3-V1

Features

- 50 mm flush ٠
- Reduction factor = 1
- Weld Immune





Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

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Date of issue: 2012-05-04

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Release date:

V1-G 4-pin, M12 female field-attachable connector V1-W 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

Subject to modifications without notice

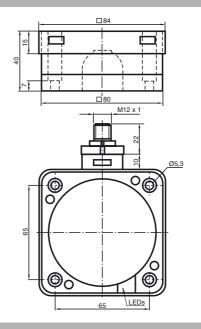
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Dimensions



Technical Data General specifications Switching element function PNP NO/NC Rated operating distance Installation s_n 50 mm flush Output polarity switched high Assured operating distance 0 ... 40.5 mm Sa Reduction factor r_{AI} Reduction factor r_{Cu} Reduction factor r₃₀₄ Reduction factor r_{St37} Nominal ratings Operating voltage 10 ... 30 V DC UB Switching frequency 0 ... 1 Hz typ. 3 % н Hysteresis Reverse polarity protected reverse polarity protected Short-circuit protection pulsing Voltage drop Rated insulation voltage Ud < 3 V 50 V UBIS Operating current 0 ... 200 mA Off-state current 0 ... 0.5 mA No-load supply current Operating voltage display Indication of the switching state < 20 mA LED, green LED, yellow Functional safety related parameters MTTF_d Mission Time (T_M) 854 a 20 a Diagnostic Coverage (DC) 0% Ambient conditions Ambient temperature 0 ... 50 °C (32 ... 122 °F) (± 10 % changing operating distance) -25 ... 70 °C (-13 ... 158 °F) (± 20 % changing operating distance) Mechanical specifications Connection type Device connector M12 x 1 , 4-pin Housing material PBT/metal PBT, PTFE coated Sensing face Housing base PBT IP68 Protection degree Compliance with standards and directives Standard conformity Standards EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates Protection class Ш 60 V Rated insulation voltage Ui 800 V Design-impulse-voltage withstand U_{imp} UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval. CCC approval

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.

104 mm

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

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