Inductive sensor **Dimensions** □84 '- -80 M12 x 1 22 위 Ø5.3 c(UL)us **€₽**° <u></u> CE \mathbb{M} O 0 **Model Number** NCB50-FP-E2-P4-V1 C 0 Θ C **Features** LEDs 65 **Comfort series** 50 mm flush **Technical Data** 3-wire DC General specifications PNP NO contact Switching element function Connection Rated operating distance Installation s_n 50 mm flush Output polarity DC Assured operating distance 0 ... 40.5 mm Sa Reduction factor r_{AI} 0.38 Reduction factor r_{Cu} 0.35 Reduction factor r₃₀₄ 0.83 Nominal ratings 10 ... 60 V DC Operating voltage U_B Switching frequency 0 ... 80 Hz typ. 3 % reverse polarity protected Hysteresis н Reverse polarity protection Short-circuit protection pulsing Voltage drop ≤ 3 V Ud 0 ... 200 mA 0 ... 0.5 mA Operating current ۱L Off-state current l_r No-load supply current ≤ 20 mA **Pinout** 1₀ Time delay before availability ≤ 300 ms t., Operating voltage display Indication of the switching state LED, green LED, yellow Functional safety related parameters MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) 940 a 20 a 0 % Ambient conditions Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Mechanical specifications Connection type Device connector M12 x 1 , 4-pin Housing material PBT Sensing face PBT Housing base metal Protection degree IP68 Compliance with standards and directives Wire colors in accordance with EN 60947-5-2 Standard conformity ΒN (brown) Standards EN 60947-5-2.2007 WН IEC 60947-5-2:2007 2 (white) 3 BU (blue) Approvals and certificates 4 ΒK (black)

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose CCC approval Certified by China Compulsory Certification (CCC)

V1-G

V1-W

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Subject to modifications without notice Pepperl+Fuchs Group

Accessories

V1-G-2M-PUR

V1-W-2M-PUR

www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

4-pin, M12 female field-attachable connector

4-pin, M12 female field-attachable connector

Cable socket, M12, 4-pin, PUR cable

Cable socket, M12, 4-pin, PUR cable

Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

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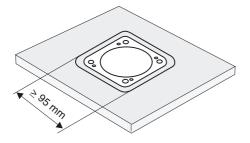


USA: +1 330 486 0001

Installation hint

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.



Warning!

Once the metal screening has been removed, the sensor can no longer be embeddable mounted.

