

Inductive sensor NCB50-FP-A2-P1

- 50 mm flush
- 4-wire DC

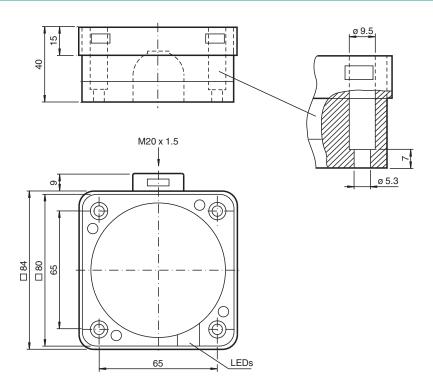








Dimensions



Technical Data

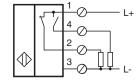
General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	Sn	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 40.5 mm
Reduction factor r _{Al}		0.38
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.83

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical Data Output type 4-wire **Nominal ratings** U_B 10 ... 60 V DC Operating voltage Switching frequency 0 ... 80 Hz f Hysteresis Н typ. 3 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop U_d \leq 3 V 0 ... 200 mA Operating current I_{L} Off-state current 0 ... 0.5 mA I_r No-load supply current I_0 ≤ 20 mA Time delay before availability ≤ 300 ms Operating voltage indicator LED, green Switching state indicator LED, yellow Functional safety related parameters 670 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Compliance with standards and directives Standard conformity Standards EN IEC 60947-5-2 Approvals and certificates **UL** approval cULus Listed, General Purpose CCC approval Certified by China Compulsory Certification (CCC) **Ambient conditions** Ambient temperature -25 ... 70 °C (-13 ... 158 °F) Mechanical specifications Connection type screw terminals Information for connection A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 % up to 2.5 mm² Core cross section Minimum core cross-section without wire end ferrules 0.5 mm², with connector sleeves 0.34 mm² without wire end ferrules 2.5 mm², with connector sleeves 1.5 mm² Maximum core cross-section PBT Housing material PBT Sensing face PBT Housing base Degree of protection IP68 Mass 445 g **Dimensions** Height 40 mm Width 84 mm Length 84 mm

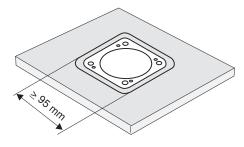
Connection





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.