

Inductive sensor NCB50-FP-E2-P1

- 50 mm flush
- 3-wire DC



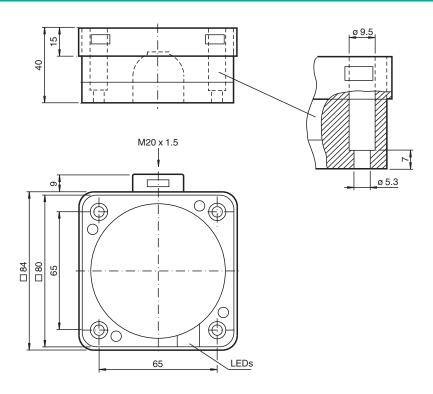








Dimensions



Technical Data

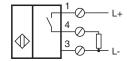
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	Sn	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 40.5 mm
Reduction factor r _{AI}		0.38
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.83

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Technical Data Output type 3-wire **Nominal ratings** U_B Operating voltage 10 ... 60 V DC 0 ... 80 Hz Switching frequency f Hysteresis Н typ. 3 % Reverse polarity protection reverse polarity protected Short-circuit protection pulsing Voltage drop U_d \leq 3 V Operating current I_{L} 0 ... 200 mA 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 940 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Compliance with standards and directives Standard conformity Standards EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates TR CU 020/2011 **EAC** conformity **UL** approval cULus Listed, General Purpose CSA approval cCSAus 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 % Core cross section up to 2.5 mm² without wire end ferrule 0.5 mm², with connector sleeves 0.34 mm² Minimum core cross-section without wire end ferrule 2.5 mm², with connector sleeves 1.5 mm² Maximum core cross-section PBT Housing material Sensing face **PBT** PBT Housing base IP68 Degree of protection

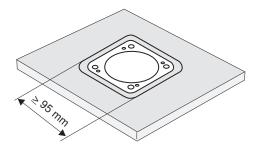
Connection



These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the conserving afforded a high degree of

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.