

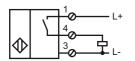
Model Number

NCB50-FP-E2-P1

Features

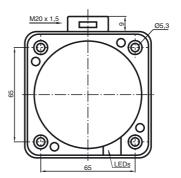
- 50 mm embeddable
- 3-wire DC •

Connection



Dimensions

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Technical Data				
General specifications				
Switching element function		PNP NO		
Rated operating distance	Sn	50 mm		
Installation	-11	embeddable		
Output polarity		DC		
Assured operating distance	Sa	0 40.5 mm		
Reduction factor rAI	u	0.38		
Reduction factor r _{Cu}		0.35		
Reduction factor r ₃₀₃		0.83		
Nominal ratings				
Operating voltage	UB	10 60 V DC		
Switching frequency	f	0 80 Hz		
Hysteresis H		typ. 3 %		
Reverse polarity protected		reverse polarity protected		
Short-circuit protection		pulsing		
Voltage drop	Ud	≤ 3 V		
Operating current	۱ _L	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		
Functional safety related parameters				
MTTF _d		940 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Ambient conditions				
Ambient temperature		-25 70 °C (-13 158 °F)		
Mechanical specifications				
Connection type		screw terminals		
Core cross-section		up to 2.5 mm ²		
Housing material		PBT		
Sensing face		PBT		
Protection degree		IP68		
Compliance with standards and directives				
Standard conformity				
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007		
Approvals and certificates				
UL approval		cULus Listed, General Purpose		
CSA approval		cCSAus Listed, General Purpose		
CCC approval		Certified by China Compulsory Certification (CCC)		

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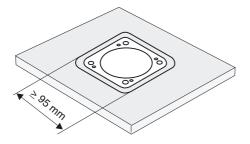
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Installation hint

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.

