

NCB50-FP-A2-P1

Features

- 50 mm flush
- 4-wire DC

Technical Data

General specifications

	Switching element function		PNP	NO/NC		
	Rated operating distance	s _n	50 mm			
	Installation		flush			
	Output polarity		DC			
	Assured operating distance	sa	0 40.5 mm	1		
	Reduction factor r _{AI}		0.38			
	Reduction factor r _{Cu}		0.35			
	Reduction factor r ₃₀₄		0.83			
N	Nominal ratings					

Nominal ratings

Operating voltage	U_B	10 60 V DC
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protection		reverse polarity protected

Functional safety related parameters

MTTF _d	670 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
Information for connection A maximum of two conductors with the same core cross-section

may be mounted on one terminal connection! tightening torgue 1.2 Nm + 10 %

Core cross-section up to 2.5 mr

Minimum core cross-section without wire end ferrule 0.5 mm², with connector sleeves 0.34 mm²

Maximum core cross-section without wire end ferrule 2.5 mm², with connector sleeves 1.5 mm²

Housing material PBT

Sensing face PBT

Housing base PBT

Degree of protection IP68

Mass 445 g Compliance with standards and directives

Standard conformity

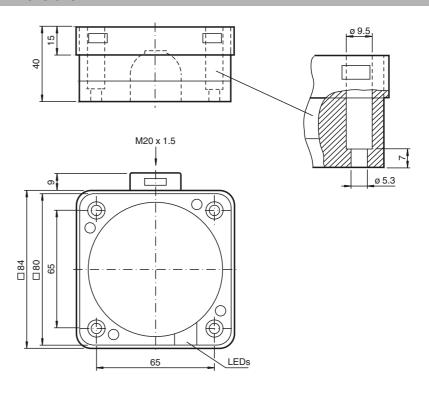
Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

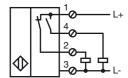
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

CCC approval Certified by China Compulsory Certification (CCC)

Dimensions



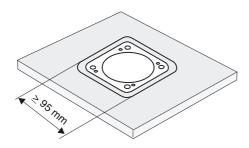
Electrical Connection



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.

FPEPPERL+FUCHS