









Model Number

NCB50-FP-E2-P4

Features

- Comfort series
- 50 mm flush
- 3-wire DC

Technical Data

General specifications

Switching element function		I IVI IVO COIILACI
Rated operating distance	s _n	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 40.5 mm
Reduction factor r _{Al}		0.38
Reduction factor r _{Cu}		0.35
Reduction factor r		0.83

Nominal ratings

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

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
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

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 metal
Degree of protection IP68

Compliance with standards and directives

Standard conformity

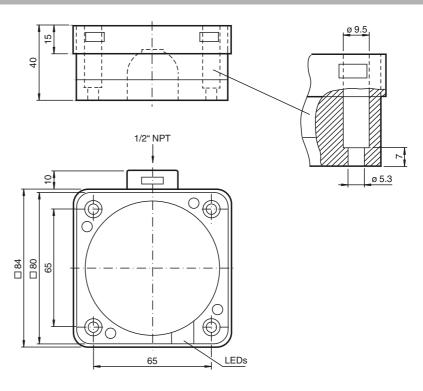
Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

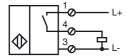
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed General Purnose

CCC approval Certified by China Compulsory Certification (CCC)

Dimensions



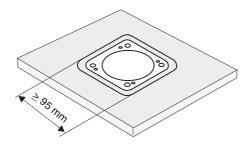
Electrical Connection



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.