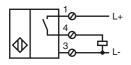
Model Number

NCB50-FP-E2-P4

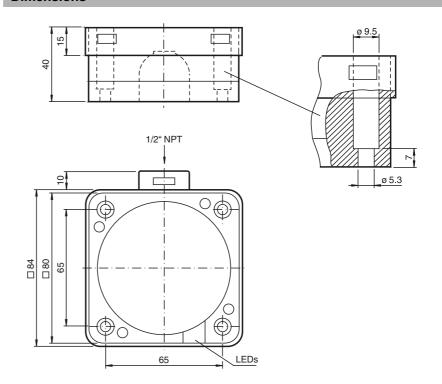
Features

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

Connection



Dimensions



Technical Data

General specifications		
Switching element function		PNP NO contact
Rated operating distance	s _n	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
Nominal ratings		
Operating voltage	U_{R}	10 60 V DC
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	ΙL	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t_v	≤ 300 ms
Operating voltage display		LED, green
Switching state indication		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		

screw terminals Connection type up to 2.5 mm² PBT Core cross-section Housing material Sensing face PBT Housing base Protection degree metal IP68

Compliance with standards and directives

Standard conformity

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

Approvals and certificates

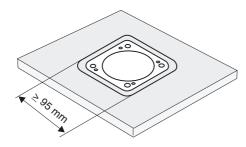
cULus Listed, General Purpose UL approval CSA approval cCSAus Listed, General Purpose

Certified by China Compulsory Certification (CCC) CCC approval

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.

2