

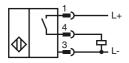
Model Number

NCB50-FP-E2-P1-V1

Features

- 50 mm flush
- 3-wire DC

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

125750_eng.xml

issue: 2013-04-08

Date of

Release date: 2013-04-05 09:53

Female connector, M12, 4-pin, field attachable

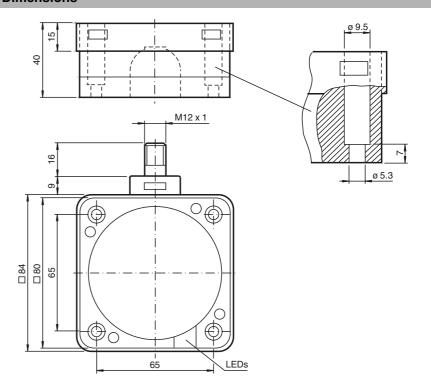
V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Female connector, M12, 4-pin, field attachable

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		0.38		

Reduction factor r_{Al} Reduction factor r_{Cu} 0.35 Reduction factor r₃₀₄ 0.83

Nominal ratings Operating voltage U_{B} 10 ... 60 V DC Switching frequency 0 ... 80 Hz Hysteresis Н typ. 3 % Reverse polarity protection reverse polarity protected

Short-circuit protection pulsing Voltage drop Operating current 0 ... 200 mA Off-state current
No-load supply current 0 ... 0.5 mA ≤ 20 mA Time delay before availability ≤ 300 ms

Operating voltage display LED, green Switching state indication LED, yellow Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 940 a 20 a 0 %

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material PBT

Sensing face PBT PBT IP68 Housing base Protection degree

Compliance with standards and directives Standard conformity

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

Approvals and certificates

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

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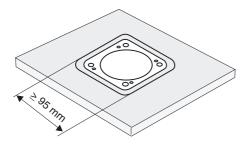
fa-info@sg.pepperl-fuchs.com

CCC approval Certified by China Compulsory Certification (CCC)

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.

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