

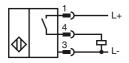
Model Number

NCB50-FP-E2-P1-V1

Features

- 50 mm embeddable
- 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

4-pin, M12 female field-attachable connector

V1-W-2M-PUR

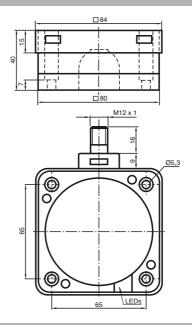
Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

4-pin, M12 female field-attachable connector

Dimensions



Technical Data

General sr	ecifications
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Switching element function		PNP NO
Rated operating distance	s _n	50 mm
Installation		embeddable
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 ₃₀₃		0.83

Nominal ratings

Operating voltage	U_B	10 60 V DC
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	IL	0 200 mA
Off-state current	I _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Operating voltage display		LED, green

Indication of the switching state

unctional safety related parameters		
MTTF _d	940 a	
Mission Time (T _M)	20 a	
Diagnostic Coverage (DC)	0 %	

Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Housing material PBT PBT Sensing face Protection degree IP68

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

Certified by China Compulsory Certification (CCC) CCC approval

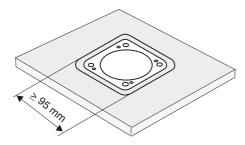
LED, yellow

www.pepperl-fuchs.com

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.