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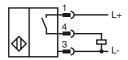
Model Number

NCB50-FP-E2-C-P1-V1

Features

- 50 mm flush
- 3-wire DC
- **Weld Immune**
- Optimum use at a distance >50 cm

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

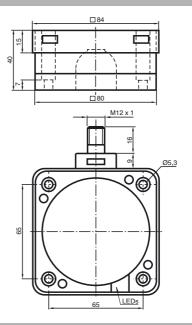
Pepperl+Fuchs Group www.pepperl-fuchs.com

4-pin, M12 female field-attachable connector V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General sr	ecifications
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Switching element function		PNP NO
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 _B	10 60 V DC
	Switching frequency	f	0 1 Hz
	Hysteresis	Н	typ. 3 %
	Reverse polarity protection		reverse polarity protected
	Short-circuit protection		pulsing
	Voltage drop	U_d	≤ 3 V
	Operating current	IL.	0 200 mA
	Off-state current	l _r	0 0.5 mA
	No-load supply current	I ₀	≤ 20 mA
	Tuning-out		≥ 50 ms
	Operating voltage display		LED, green
	Indication of the switching state		LED, yellow

Functional safety related parameters

Λ	MTTF _d	960 a
Λ	Mission Time (T _M)	20 a
	Diagnostic Coverage (DC)	0 %

Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin Housing material Sensing face PBT/metal PBT, active surface PTFE coated Housing base

IP68

Protection degree Compliance with standards and directives

Standard conformity

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

Approvals and certificates

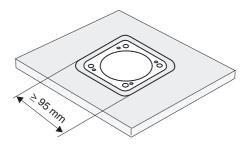
CSA approval cCSAus Listed, General Purpose	UL approvai	culus Listed, General Purpose
	CSA approval	cCSAus Listed, General Purpose

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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