







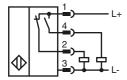
Model Number

NCB50-FP-A2-C-P3-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	RK	(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

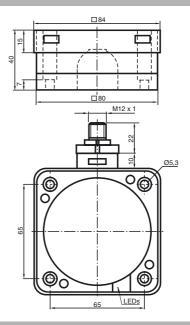
V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

General	specifications
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Switching element function		PNP	NO/NC
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 rook		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

runctional salety related parameters	
MTTF _d	660 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	Device connector M12 x 1, 4-pin
Housing material	PBT/metal
Sensing face	PBT, active surface PTFE coated
Housing base	metal

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

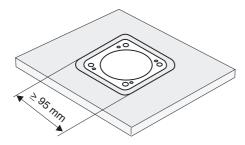
CCC approval Certified by China Compulsory Certification (CCC)

IP68

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.