

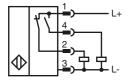
Model Number

NCB50-FP-A2-P1-V1

Features

- 50 mm embeddable
- 4-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

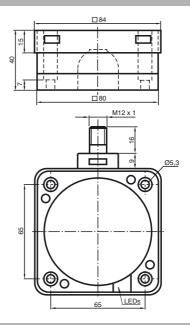
Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

4-pin, M12 female field-attachable connector

Dimensions



Technical Data

General sp	ecifications
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Switching element function		PNP	NO/NC	
Rated operating distance	s _n	50 mm		
Installation		embedda	able	
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		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	ال	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Operating voltage display		LED, green

Indication of the switching state

unctional salety related parameters	
MTTF _d	680 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 Sensing face **PBT** PBT Housing base PBT Protection degree IP68

LED, yellow

Compliance with standards and directives

Standard conformity

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

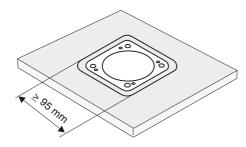
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)

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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