

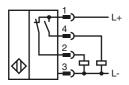
## **Model Number**

## NCB40-FP-A2-P4-V1

#### **Features**

- **Comfort series**
- 40 mm flush
- 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**

129427\_eng.xml

Date of issue: 2013-04-09

2013-04-09 11:30

Release date:

Female connector, M12, 4-pin, field attachable

Female connector, M12, 4-pin, field attachable

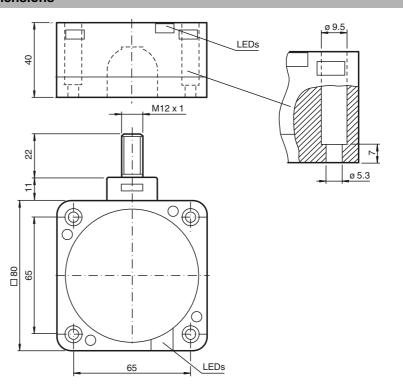
V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

### **Dimensions**



#### **Technical Data**

General	enecifications	0

Switching element function		PNP	NO/NC
Rated operating distance	s <sub>n</sub>	40 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 32.4	mm
Reduction factor r <sub>Al</sub>		0.25	
Reduction factor r <sub>Cu</sub>		0.23	
Reduction factor read		0.85	

Nominal ratings

$U_B$	10 60 V DC
f	0 80 Hz
Н	typ. 3 %
	reverse polarity protected
	f

Short-circuit protection pulsing Voltage drop ≤ 3 V Operating current 0 ... 200 mA 0 ... 0.5 mA ≤ 20 mA Off-state current
No-load supply current Time delay before availability ≤ 300 ms Operating voltage display LED, green

Switching state indication Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 630 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 metal IP68 Housing base Protection degree

## 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)

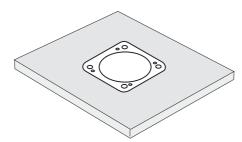
LED, yellow

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.



FPEPPERL+FUCHS

2