







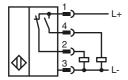
### **Model Number**

NCB40-FP-A2-C-P1-V1

### **Features**

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

V1-G 4-pin, M12 female field-attachable connector

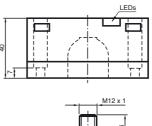
V1-W

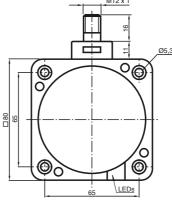
4-pin, M12 female field-attachable connector V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

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

### **Dimensions**





### **Technical Data**

#### **General specifications**

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 r <sub>304</sub>		0.85	
Nominal ratings			

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	Operating voltage	U <sub>B</sub>	10 60 V
	Switching frequency	f	0 80 Hz
	Hysteresis	Н	typ. 3 %
	Reverse polarity protection		reverse polarity protected
	Voltage drop	$U_d$	≤ 3 V
	Operating current	IL.	0 200 mA
	Off-state current	I <sub>r</sub>	0 0.5 mA
	No-load supply current	I <sub>0</sub>	≤ 20 mA
	Operating voltage display		LED, green
	Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF <sub>d</sub>	570 a
Mission Time (T <sub>M</sub> )	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
Sensing face	PBT, active surface PTFE coated
Housing base	PBT
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

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.

