

# Inductive sensor NCB40-FP-A2-P1-V1

Comfort series

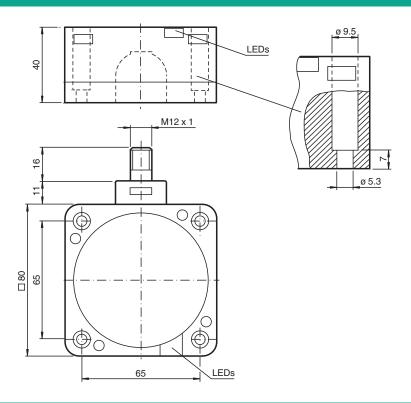








### **Dimensions**

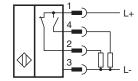


### **Technical Data**

	complementary
	PNP
Sn	40 mm
	flush
	DC
Sa	0 32.4 mm
	0.25
	0.23
	0.85

Output type		4-wire
Nominal ratings		
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
Short-circuit protection		pulsing
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	Io	≤ 20 mA
Time delay before availability	t <sub>v</sub>	≤ 300 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF <sub>d</sub>		630 a
Mission Time $(T_M)$		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directive	es	
Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68

## Connection



NCB40-FP-A2-P1-V1



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

#### **Installation Conditions**

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.

