



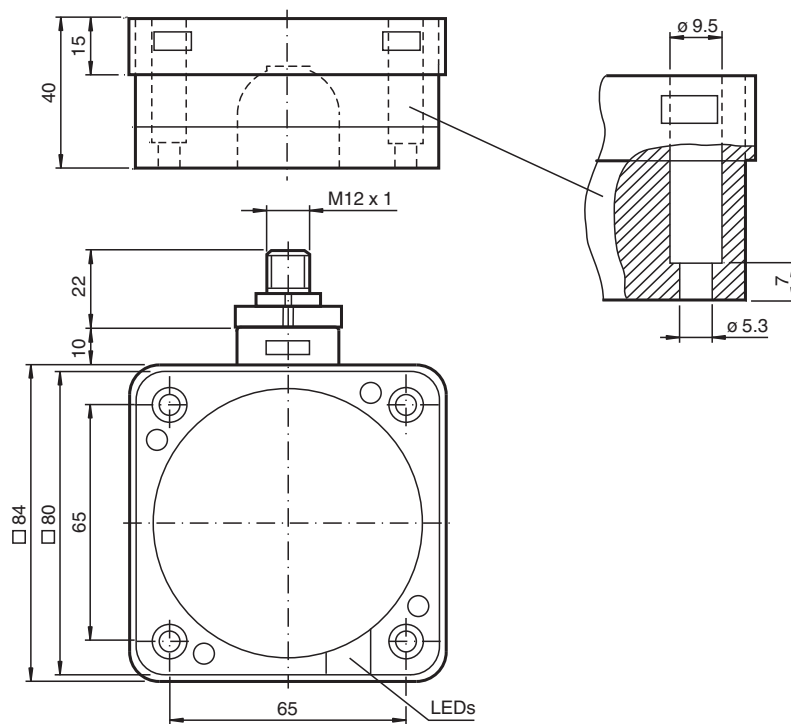
Inductive sensor

NCB50-FP-E34-C-P3-V1

- 50 mm flush
- 4-wire DC
- Weld Immune
- Optimum use at a distance >50 cm



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)	
Output type	PNP	
Rated operating distance	s_n	50 mm
Installation	flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 40.5 mm
Reduction factor r_{AI}	0.38	
Reduction factor r_{Cu}	0.35	
Reduction factor r_{304}	0.83	
Output type	3-wire	

Nominal ratings

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 1 Hz

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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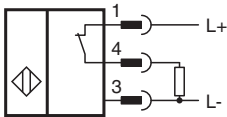
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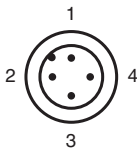
Technical Data

Hysteresis	H	typ. 3 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 200 mA
Off-state current	I _r	0 ... 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	≤ 1 s
Tuning-out		≥ 50 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
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/metal
Sensing face		PBT, active surface PTFE coated
Housing base		metal
Degree of protection		IP68
Mass		530 g
Dimensions		
Height		40 mm
Width		84 mm
Length		84 mm

Connection



Connection Assignment



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Connection Assignment

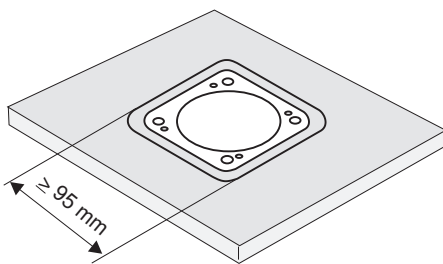
Wire colors in accordance with EN 60947-5-2

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

Mounting

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.