

Inductive sensor NCB50-FP-E3-P1-V1

Comfort series



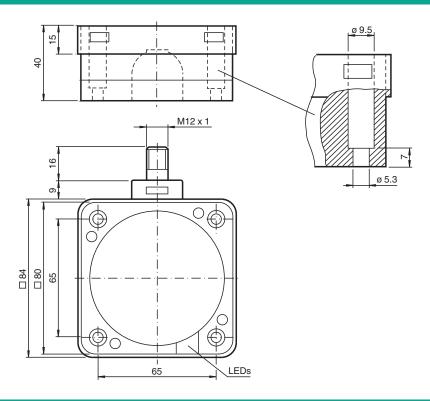








Dimensions



Technical Data

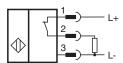
General specifications		
Switching function		Normally closed (NC)
Output type		PNP
Rated operating distance	S _n	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 40.5 mm
Reduction factor r _{Al}		0.38
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.83
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	10 60 V DC
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %

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Technical Data		
Reverse polarity protection		reverse polarity protected
Voltage drop	U_{d}	≤3 V
Operating current	IL	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t _v	≤ 300 ms
Operating voltage indicator		LED, green
Switching state indicator		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)
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		PBT/metal
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

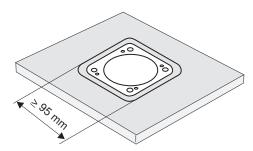
1	BN	(brown
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.

protective guarding to prevent

possible foot injury.



Warning! Once the metal screening has been removed, the sensor can no longer be embeddable mounted.

Accessories

V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey
V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey