

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



Technical drawing of the LED module showing front, top, and side views with dimensions.

Front View: A square module with a central circular lens. The overall width is 84 mm and the overall height is 84 mm. The mounting holes are spaced 65 mm apart horizontally and 65 mm apart vertically. The lens diameter is 80 mm. The mounting holes have a diameter of 5.3 mm. The module is labeled "LEDs".

Top View: Shows the module's profile. The total height is 40 mm. The mounting holes are spaced 15 mm apart. The mounting holes have a diameter of 5.3 mm. The module is labeled "M12 x 1".

Side View: Shows the module's profile. The total height is 40 mm. The mounting holes are spaced 15 mm apart. The mounting holes have a diameter of 5.3 mm. The module is labeled "M12 x 1".

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 _{Al}		0.38
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₄		0.83
Nominal ratings		
Operating voltage	U _B	10 ... 60 V DC
Switching frequency	f	0 ... 1 Hz
Hysteresis	H	typ. 3 %
Reverse polarity protection		reverse polarity protected

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

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Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3\text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA
No-load supply current	I_0	$\leq 20\text{ mA}$
Time delay before availability	t_v	$\leq 1\text{ s}$
Tuning-out		$\geq 50\text{ ms}$
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

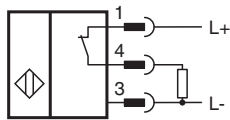
Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
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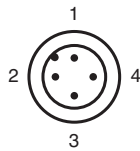
Mechanical specifications

Connection type		Connector 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

Connection



Connection Assignment



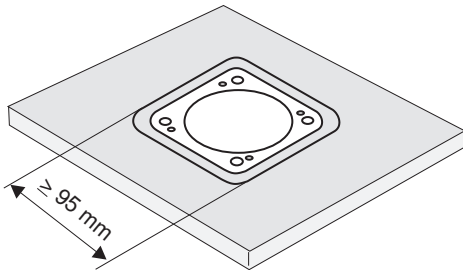
Wire colors in accordance with EN 60947-5-2

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.