

- 50 mm flush
- 4-wire DC



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 and height are 84 mm. The mounting flange has a width of 80 mm and a height of 16 mm. The central lens has a diameter of 65 mm. The mounting holes are spaced 65 mm apart. The label "LEDs" points to the central lens area.

Top View: Shows the module's profile. The total height is 40 mm. The mounting flange has a height of 15 mm. The central lens has a height of 9 mm. The mounting holes are spaced 65 mm apart. The label "M12 x 1" points to the mounting hole.

Side View: Shows the module's profile. The total height is 40 mm. The mounting flange has a height of 15 mm. The central lens has a height of 9 mm. The mounting holes are spaced 65 mm apart. The label "LEDs" points to the central lens area.

Detail View: A cross-section of the mounting flange. The flange has a thickness of 7 mm. The mounting hole has a diameter of $\varnothing 9.5$. The central lens has a diameter of $\varnothing 5.3$.

General specifications

Switching function		complementary
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

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

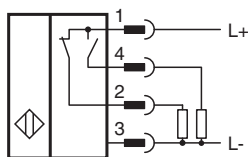
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com



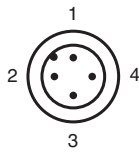
Technical Data

Reduction factor r_{304}		0.83
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 80 Hz
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	≤ 300 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		680 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
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 M12 x 1 , 4-pin
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Degree of protection		IP68

Connection



Connection Assignment



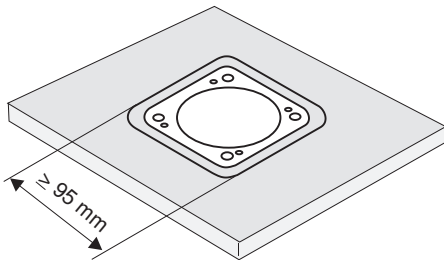
Wire colors in accordance with EN 60947-5-2

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

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.

Accessories

	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable