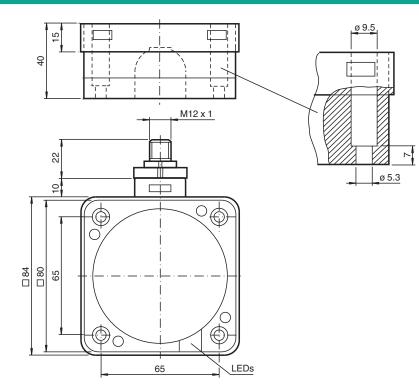




# **Dimensions**



# **Technical Data**

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	Sn	50 mm
Installation		flush
Output polarity		DC
Assured operating distance	Sa	0 40.5 mm
Reduction factor r <sub>AI</sub>		1
Reduction factor r <sub>Cu</sub>		1

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

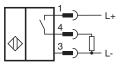
Pepperl+Fuchs Group www.pepperl-fuchs.com USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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Technical Data		
Reduction factor r <sub>304</sub>		1
Reduction factor r <sub>St37</sub>		1
Nominal ratings		
Operating voltage	UB	10 30 V DC
Switching frequency	f	0 80 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤3 V
Rated insulation voltage	U <sub>BIS</sub>	50 V
Operating current	IL.	0 200 mA
Off-state current	- Ir	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I <sub>0</sub>	≤ 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>		944 a
Mission Time (T <sub>M</sub> )		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		CCC approval / marking not required for products rated $\leq$ 36 V
Ambient conditions		
Ambient temperature		0 50 °C (32 122 °F) (± 10 % changing operating distance) -25 70 °C (-13 158 °F) (± 20 % changing operating distance)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		PBT/metal
Sensing face		PBT
Housing base		metal
Degree of protection		IP68

# Connection



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

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### **Connection Assignment**



Wire colors in accordance with EN 60947-5-2

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

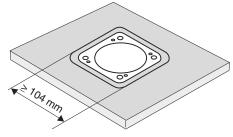
### Mounting

These sensors are particularly suitable for embedded installation in floor conveyor systems. The installation of the switch in a metal base plate provides it with considerable protection against mechanical damage.

Care should be taken to ensure that the cut out in the base plate is at least 104 mm x 104 mm and that the sensor is positioned centrally within this cut out.

The active surface of the sensor must not be recessed with respect to the front face of the base plate.

The high switching distance guarantees safe detection and thus control of the floor conveyor system.



#### Caution!

After removal of the metal screen the proximity switch can no longer be mounted as an embedded installation.

## Accessories

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

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