



Model Number

G12/GV12/37/40b/115

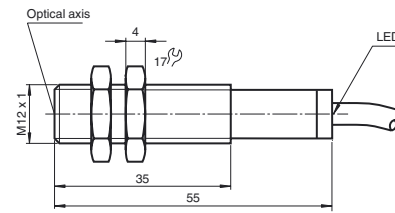
Thru-beam sensor
with 2 m fixed cable

Features

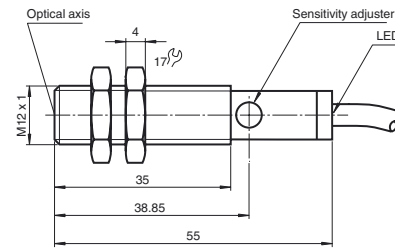
- Basic Series with M12 metal housing for standard applications
- Robust M12 threaded housing
- Visible red light
- Light/dark ON, programmable

Dimensions

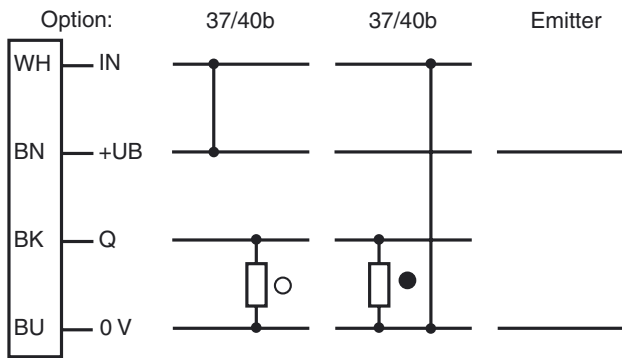
Transmitter



Receiver



Electrical connection



○ = Light on
● = Dark on

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Technical data

System components

Emitter	G12/115
Receiver	GV12/37/40b/115

General specifications

Effective detection range	0 ... 5000 mm
Adjustment range	250 ... 5000 mm
Reference target	receiver
Light source	LED
Light type	modulated visible red light , 660 nm
Approvals	CE
Optical face	frontal
Ambient light limit	20000 Lux

Indicators/operating means

Function display	LED yellow: switching state
Controls	sensitivity adjustment , receiver

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	≤ 25 ms

Input

Control input	light on +UB dark on: 0 V
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Output

Switching type	light/dark on	
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 300 mA	
Voltage drop	U_d	≤ 3 V
Switching frequency	f	≤ 500 Hz
Response time		≤ 1 ms

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

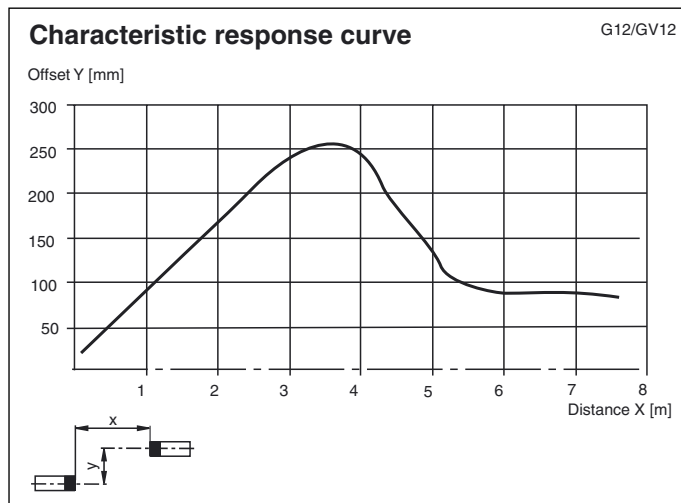
Mechanical specifications

Protection degree	IP67
Connection	2 m fixed cable
Material	
Housing	brass, nickel-plated
Optical face	PMMA
Mass	45 g (device)

Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤ 36 V
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Curves/Diagrams



Accessories

BF 12

Mounting flange, 12 mm

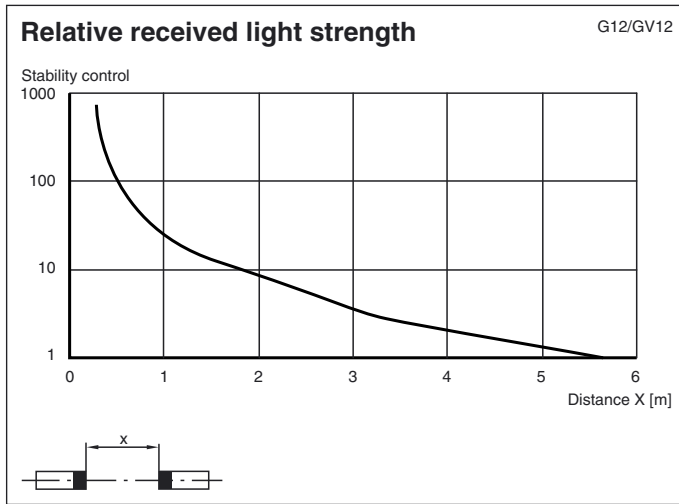
BF 12-F

Mounting flange with dead stop, 12 mm

BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

Additional accessories can be found in the Internet.



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

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