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# **Model Number**

## G12/GV12/36/40b/115

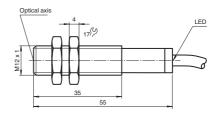
Thru-beam sensor with 2 m fixed cable

## **Features**

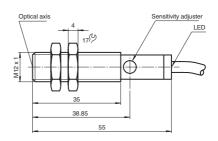
- Basic Series with M12 metal housing for standard applications
- Robust M12 threaded housing
- Visible red light
- Light/dark ON, programmable

# **Dimensions**

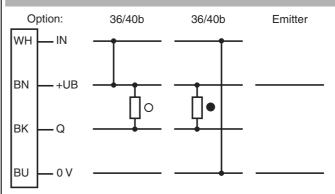
Transmitter



Receiver



# **Electrical connection**

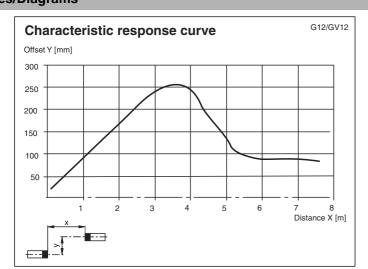


- O = Light on
- = Dark on

# Thru-beam sensor

Technical data		
System components		
Emitter		G12/115
Receiver		GV12/36/40b/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
Optical face		frontal
Ambient light limit		20000 Lux
Indicators/operating means		
Function indicator		LED yellow: switching state
Control elements		sensitivity adjustment, receiver
Electrical specifications		
Operating voltage	$U_{B}$	10 30 V DC
Ripple	D	10 %
No-load supply current	I <sub>O</sub>	≤ 20 mA
Time delay before availability	t <sub>v</sub>	≤ 25 ms
Input	·	
Control input		light on +UB
Common impair		dark on: 0 V
Output		
Switching type		light/dark on
Signal output		NPN 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
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		
Approvals and certificates CCC approval		CCC approval / marking not required for products rated ≤36 V

# **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.