

Light grids BLG are normally used for reliably detecting wide and very large objects. BLG sensors are available in various measurement field heights of 100, 150 and 300 mm and allow both large and small ranges. Light grids with a measurement field height of 100 and 150 mm can be ordered with low or high resolution.

The light grid can be simply and quickly installed using the supplied mounting bracket. Setup and installation are user friendly and easy to accomplish.

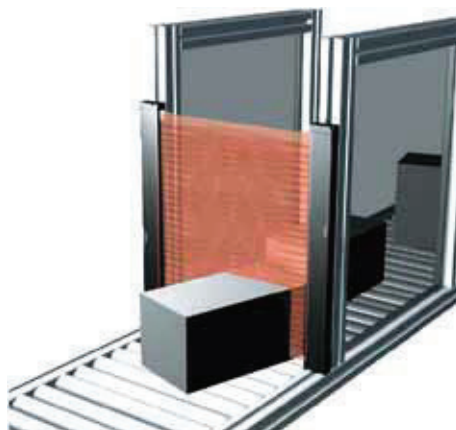
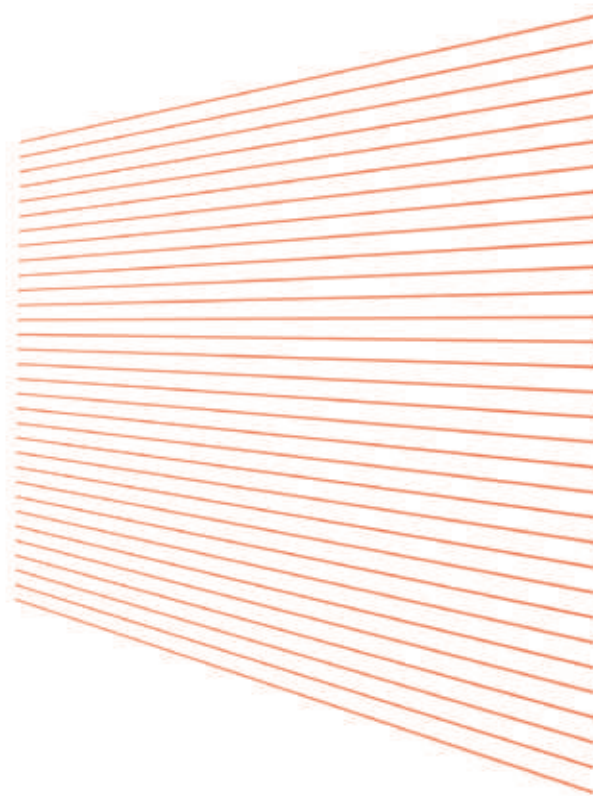
The system features an analog voltage output for outputting the height or width of an object directly. An additional switching output indicates whether the object is within the monitored range.

Features

- Easy to connect
- Easy to install
- Ready for operation immediately
- No cumbersome configuration of parameters
- Ranges 150 mm...2.1 m
- Measurement field heights 100, 150, 300 mm
- Analog output

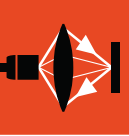
Applications

- Counting parts
- Height measurement and height checking
- Presence verification
- Slack and position checking
- Pallet checking
- Web monitoring
- Position and material monitoring



Photoelectric Sensors with Special Properties

Light grids BLG Product overview



Photoelectric Sensors

Photoelectric Sensors

Photoelectric Sensors with Special Properties

Analog Fork Sensors BGL_C

Optical Window Sensors BOW

Light Grids BLG

Color Sensors BFS

Contrast Sensors BKT

Luminescence Sensors BLT

Optical Fiber Base Units BFB/BOS

Plastic Fiber Optics BFO

Glass Fiber Optics BFO

Photoelectric Distance Sensors for Analog Distance Measurement

Accessories for Photoelectric Sensors

Type

■ Ordering code

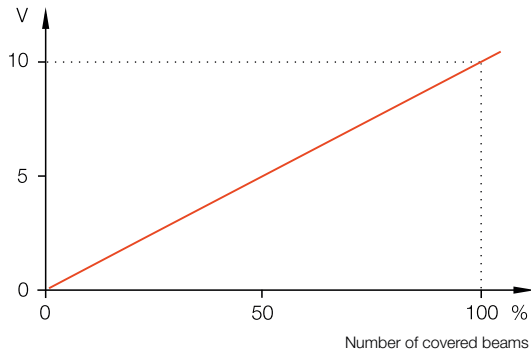
■ Part number



Light grids

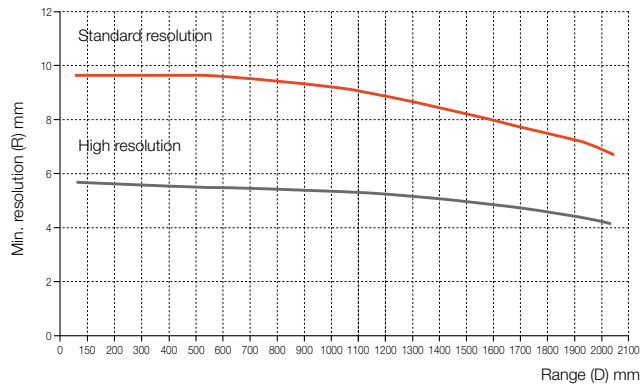
Type		Measuring field height	Range		Resolution		Light type		Output		Switching type		U _s	Connec-tion		Page
				0.15...2.1 m	5 mm	7 mm	Infrared		PNP transistor	Analog 0...10 V	Dark switching			24 V DC	M12 plug	
BLG0001	BLG 1-010-210-050-PV01-SX	100 mm	■		■		■		■	■	■		■	■		287
BLG0002	BLG 1-010-210-070-PV01-SX	100 mm	■			■	■		■	■	■		■	■		287
BLG0003	BLG 1-015-210-050-PV01-SX	150 mm	■		■		■		■	■	■		■	■		287
BLG0004	BLG 1-015-210-070-PV01-SX	150 mm	■			■	■		■	■	■		■	■		287
BLG0005	BLG 1-030-210-070-PV01-SX	300 mm	■			■	■		■	■	■		■	■		287

Analog output



Resolution diagram

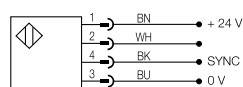
Range 0.15...2.1 m



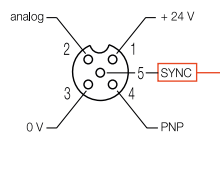
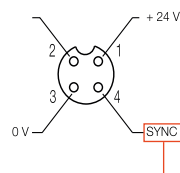
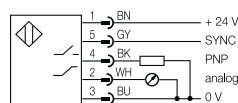
Series			
Measurement field height			
PNP NO	Resolution 5 mm	Ordering code	
		Part number	
PNP NO	Resolution 7 mm	Ordering code	
		Part number	
Supply voltage U_s			
No-load supply current I_0 max.		Emitter	
		Receiver	
Output current			
Switching type			
Short-circuit protected			
Analog output			
Settings			
Emitter, light type			
Wavelength			
Power-on indicator		Emitter/Receiver	
Output function indicator			
Degree of protection as per IEC 60529			
Ambient temperature T_a			
Material		Housing	
		Optical surface	
Connection		Emitter	
		Receiver	

Wiring diagrams

Emitter



Receiver



Recommended accessories
(please order separately)



Mounting bracket
(included)

Photoelectric Sensors with Special Properties

Light grids BLG



Photoelectric Sensors

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Color Sensors BFS

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Optical Fiber Base Units BFB/BOS

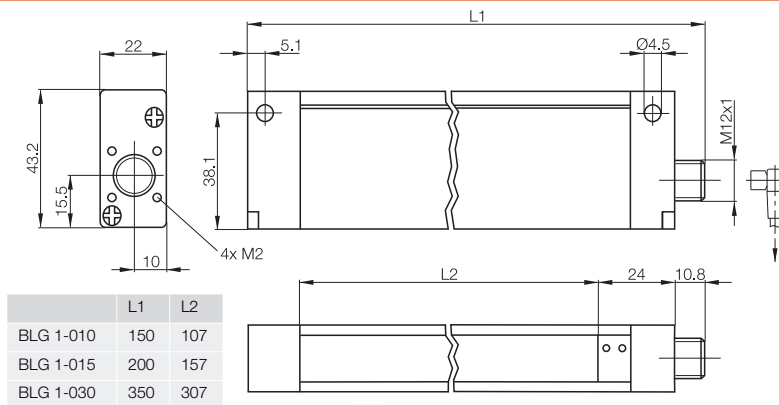
Plastic Fiber Optics BFO

Glass Fiber Optics BFO

Photoelectric Distance Sensors for Analog Distance Measurement

Accessories for Photoelectric Sensors

BLG 100 mm	BLG 150 mm	BLG 300 mm
BLG0001	BLG0003	
BLG 1-010-210-050-PV01-SX	BLG 1-015-210-050-PV01-SX	
BLG0002	BLG0004	BLG0005
BLG 1-010-210-070-PV01-SX	BLG 1-015-210-070-PV01-SX	BLG 1-030-210-070-PV01-SX
24 V DC	24 V DC	24 V DC
≤ 150 mA	≤ 150 mA	≤ 150 mA
≤ 50 mA no load	≤ 50 mA no load	≤ 50 mA no load
100 mA	100 mA	100 mA
Dark switching	Dark switching	Dark switching
Yes	Yes	Yes
0...10 V	0...10 V	0...10 V
Fixed	Fixed	Fixed
LED, infrared	LED, infrared	LED, infrared
880 Nm	880 Nm	880 Nm
Green LED	Green LED	Green LED
Yellow LED	Yellow LED	Yellow LED
IP 65	IP 65	IP 65
0...+55 °C	0...+55 °C	0...+55 °C
Black anodized aluminum	Black anodized aluminum	Black anodized aluminum
PMMA	PMMA	PMMA
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
M12 connector, 5-pin	M12 connector, 5-pin	M12 connector, 5-pin



Suitable connectors
(please order separately)



Suitable connectors
(please order separately)



Size	Design	Cable material	Color	Length	Ordering code
M12, 5-pin	Straight	PUR	Black	5 m	BCC098C
M12, 5-pin	Angled	PUR	Black	5 m	BCC08FC

Connectors without LED are suitable for PNP and NPN sensors.

More electrical accessories: You can find a large selection of plug connectors and connector cables in a wide variety of cable materials, colors and lengths in our **Industrial Networking and Connectivity catalog**.

Size	Design	Cable material	Color	Length	Ordering code
M12, 4-pin	Straight	PUR	Black	2 m	BCC032F
M12, 4-pin	Straight	PVC	Gray	2 m	BCC0367
M12, 4-pin	Angled	PUR	Black	2 m	BCC032Y
M12, 4-pin	Angled	PVC	Gray	2 m	BCC036N

Use the plug connector without an LED!