





Selection and ordering data

Version	Range	Size	Connection	Order No.
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Safety light barriers (Cat. 2 acc. to EN 954-1)

	Transmitter		50 x 31 x 16 mm	M8, Type B	3RG78 21-7BG00
	Receiver	0...4 m	50 x 31 x 16 mm	M8, Type B	3RG78 21-7CD00
	Monitoring unit		45 x 84 x 118 mm	For max. 2 light barrier pairs	3RG78 26-1CB1

Safety light barriers (Cat. 4 acc. to EN 954-1)

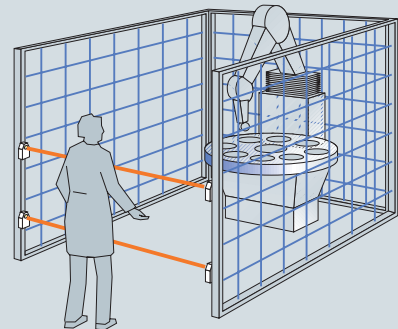
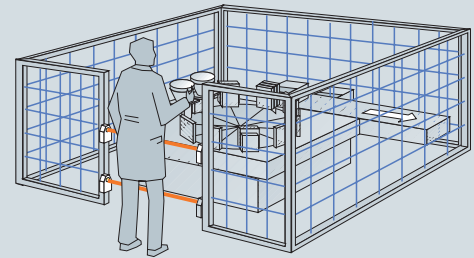
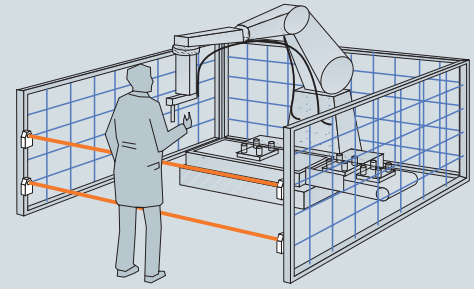
	Transmitter		50 x 50 x 17 mm	M12, Type F	3RG78 22-7BG00
	Receiver	0...15 m	50 x 50 x 17 mm	M12, Type F	3RG78 22-7CD00
	Monitoring unit		75 x 100 x 110 mm	For max. 4 light barrier pairs	3RG78 27-1DE2

Technical data

Light barrier	3RG7821 Cat. 2 acc. to EN 954-1	3RG7822 Cat. 4 acc. to EN 954-1
Operating voltage	24 V DC	24 V DC
Operating range	0 – 4 m	0 – 15 m
Light type	Infrared (880 nm)	Infrared (880 nm)
Opening angle	≤ 4°	≤ 2°
Obstruction size	≤ 9 mm Ø	≤ 13 mm Ø
Connection	10 cm cable with M8 connector, type A	Connector M12, type F
Operating temperature	–10 °C to +55 °C	–20 °C to +60 °C
Degree of protection	IP 67	IP 67
Monitoring unit	3RG7826 Cat. 2 acc. to EN 954-1	3RG7827 Cat. 4 acc. to EN 954-1
Operating voltage	24 V DC	24 V DC
Response time	≤ 25 ms	≤ 30 ms
Current drain	180 mA	≤ 300 mA
Safety outputs	2 relays (positively driven)	2 relays (positively driven)
Switching voltage	max. 250 V AC	max. 250 V AC
Switching current	max. 5 A (ohmic load)	max. 4 A (ohmic load)
Switching power	max. 2000 VA	max. 1000 VA
Signaling outputs	1	4
Operating temperature	0 °C to +50 °C	0 °C to +50 °C
Degree of protection	IP 67	IP 67

Number and height of the light beams above the reference plane acc. to EN 999

Number of light beams	Height of the light beams above the reference plane in mm	Beam clearance S in mm
4	300, 600, 900, 1200	300
3	300, 700, 1100	400
2	400, 900	500
1	750	



Mounting instructions

The light barriers can be operated in any mounting position. They must be installed so that the hazardous zone can only be accessed by interrupting at least one of the beams (also refer to EN 999). The number of beams and the clearance between the beams is defined by the requirements of the power-operated equipment and the applicable regulations.