SIGUARD light barriers 3RG782: Small – but big on safety



Advantages:

- Can be used in control circuits for Category 2 or 4 in compliance with EN 954-1
- One of the smallest safety light barriers worldwide
- 4 or 15 m range
- Integrated "Verschmutzungskontrolle"

- Various modes can be selected: with/without start and restart inhibit, with/without contactor monitoring
- Evaluation unit for 2 or 4 light barrier pairs

Safety INTEGRATED

No matter whether for conveyor systems or power-operated doors — whether for high-bay racking aisles, elevating platforms or paternosters: The small SIGUARD light barriers 3RG782 ensure a high degree of safety in hazardous areas. The complete system comprises a self-monitoring evaluation unit and the associated light barriers — extremely flexible in operation and simple to install.



Selection and ordering data

Version Range Size Connection Order No.

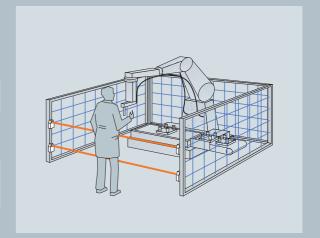
Safety light barriers (Cat. 2 acc. to EN 954-1)



Transmitter		50 x 31 x 16 mm	M8, Type B	3RG78 21-7BG00
Receiver	04 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



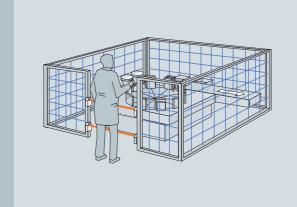
Safety light barriers (Cat. 4 acc. to EN 954-1)



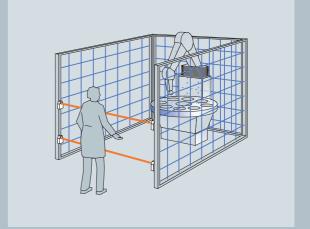
Transmitter		50 x 50 x 17 mm	M12, Type F	3RG78 22-7BG00
Receiver	015 m	50 x 50 x 17 mm	M12, Type F	3RG78 22-7CD00



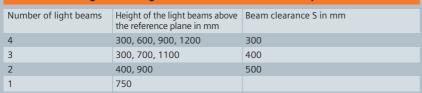
Monitoring unit	75 x 100 x 110 mm	For max. 4 light barrier pairs	3RG78 27-1DE2



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



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





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.