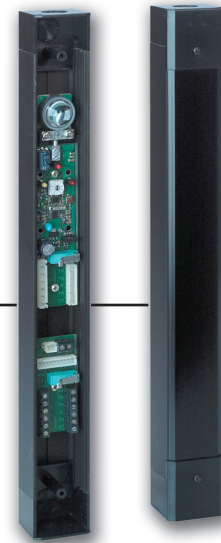


IRS-509-VdS / IRS-509-O

Infrared Light Barrier



The system light barrier provides varied application possibilities both indoors and outdoors.

Application-specific light curtains can be realized using different sizes and swivel lenses.

For outdoor applications are versions with integrated heater available (IRS-509-O). The heater prevents condensation on the glass pane and light barrier lens.

The infrared light barrier operates with modulated infrared signals. This type of transmission technology ensures an extremely high interference immunity so that even a false alarm signal due to sunlight is impossible.

Increased security against tamper and other infrared external signals are achieved by signal shape monitoring with automatic amplification and digital threshold control.

Performance features

- VdS-Approval (IRS-509-VdS)
- VdS Class C
- Time-saving and simple one-man adjustment
- High tamper security
- Digital threshold control DTC
- Uninterrupted automatic synchronization
- Automatic gain control AGC

Fields of application:

- Large shop windows
- Museums, exhibitions
- Fences, gates, passageways
- Shop windows, inside and outside
- Cellar windows, skylights, roof windows
- Balconies, conservatories, greenhouses
- Light shafts, air conditioning and ventilation shafts
- Escalators, staircases
- EDP rooms, monitoring of raised double floors
- Monitoring of barriers and height
- Control and monitoring of single entry access portals
- Unit surveillance, production lines

Video technology:

- Actuation of digital video recorders
- Actuation of crossbars


- Insensitive to changes in temperature
- Insensitive to sunlight and artificial light
- Multi-channel version
- Integrated heater (IRS-509-O)
- Timeless, elegant design
- Elegant inconspicuous mounting

Technical data

| | |
|---|---|
| Rated operating voltage | 12 V DC |
| Rated operating voltage range | 9 to 35V DC or 9 to 25 V AC/ 50 Hz |
| Current consumption at 12V DC | Type 20 mA / max. 25 mA per transmitter/pair of receivers |
| Range | Indoor application: 99 m Outdoor application: 72 m |
| Inputs | Max. 35 V DC or 25 V AC for: - Armed/disarmed - Walk test - Alarm memory |
| Outputs | Alarm output relay (norm. closed contact, max. 60 V / 0.2 A DC / AC) Tamper contact (norm. closed contact, max. 60 V / 0.2 A DC / AC) Signal (technical) - (open collector max. 50 mA/12 V DC) in case of tamper infrared, fault infrared Undervoltage, process fault |
| Operating temperature range | +10 °C to +75 °C for indoor application - 30 °C to +75 °C for outdoor application or condensation on covering glass panel only with integrated heater possible (Type 509 - O integrated heater included in scope of delivery) |
| Protection class as per DIN 40 050 | IP 54 |
| Environmental class as per VdS | IV |
| Dimensions (L x W x D) | Single beam device: 220 x 40 x 40 mm Profiled housing: 40 x 40 mm |
| Weight | Single beam device: Approx. 0.5 kg |
| Colour | Oxide-coated, black, other RAL colours on request |

Further data see product group catalogue

Ordering data

| Item no. | Description |
|----------|--|
| 033080 | IRS - 509 - VdS light barrier, indoors, 22 cm height, 1 beam |
| 033081 | IRS - 509 - VdS light barrier, indoors, 100 cm height, 3 beams |
| 033082 | IRS - 509 - VdS light barrier, indoors, 150 cm height, 5 beams |
| 033083 | IRS - 509 - VdS light barrier, indoors, 200 cm height, 8 beams |
| 033084 | IRS - 509 - O light barrier, outdoors, 22 cm height, 1 beam |
| 033085 | IRS - 509 - O light barrier, outdoors, 100 cm height, 3 beams |
| 033086 | IRS - 509 - O light barrier, outdoors, 150 cm height, 4 beams |
| 033087 | IRS - 509 - O light barrier, outdoors, 200 cm height, 6 beams |
| |  approval: G100029 (IRS-509-VdS), Class C |
| Item no. | Accessories |
| 033090 | Adjusting device with LED and adapter cable |
| 033095 | Black square profiled housing for embedding in concrete |
| 033096 | Black square profiled housing with plate |

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