

LS2120

Profiline IR light barrier 120m

The latest innovation: This innovative Profiline infrared light barrier detects up to a distance of 240m indoors and 120m outdoors. Dual light beams and anti-sabotage monitoring of the transmitter and receiver guarantee reliable functionality. A special plus: Installation is quick and easy thanks to the horizontal and vertical alignment capabilities of the transmitter and receiver, laser beam calibration and LED display. Delivery kit: Infrared transmitter (Tx), Infrared receiver (Rx), Accessories for mast mounting (2 mounting plates, 2 mounting brackets, 6 round-head screws (M4x10), 4 round-head screws (M4x20))

- Type of detection: Active infrared light barrier (dual light beam, pulsed)
- Detection range, max.: 240m indoors, 120m outdoors
- Power supply: 10 V–30 V DC (without polarity)
- Current consumption: Tx+Rx approx. 70mA
- Response time/interruption time: adjustable: 50 ms –700 ms
- Alarm output: (Rx) Relay (NO/NC) 1A / 120V AC
- Sabotage output (Tx+Rx): NC contact 1 A / 120 V AC LED
- Alarm indications:
 - o Power-LED (green: Tx+Rx): Power supply applied to transmitter (Tx) and receiver (Rx).
 - o Alarm-LED (red: Rx): Omitted alignment or interrupted light beam
 - o Signal-LED (yellow: Rx): Weak IR beam or interrupted light beam
- Laser wavelength 650 nm, power \leq 5 mW, laser class 3a (classified as per DIN VDI 0837)
- Operating temperature: –25°C –55°C
- Protection class: IP55 • Dimensions (HxWxD): 173x74x72mm



Product highlights:

- Long monitoring range
- pulsed dual light beams
- Anti-sabotage monitoring of the transmitter and receiver by means of lid contact
- Can be used outdoors: IP55

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Technical Data

Detection range (indoors/outdoors)	120 m/ 240 m	Max. intensity of extraneous light	Light sources <10000 lux, sunlight <30000 lux
power supply	10V – 30V DC (without polarity)	Laser	Wavelengths 650 nm, laser class 3a
Current consumption	Tx + Rx: 65 mA	Operating temperature	–25 °C to 55 °C
Response time/interruption time	50 – 700 ms	Degree of protection	IP55
Alarm output	Relay (NO/NC) 12V AC/ 1 A	Dimensions	173 x 74 x 72 mm (H x W x D)
Sabotage contact	NC contact		