

B Series light curtain

Information Sheet



Features

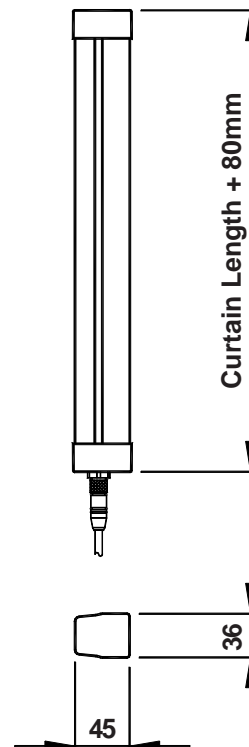
- Easy installation
- Range of popular sizes
- EC Type examined
- Type 4 EN61496 design
- Small cross section
- Beam blanking as optional extra
- Flexible interfacing
- Muting option
- 'Quick-release' connectors
- Fail-safe PNP outputs

The B Series is a Type 4 light curtain which has been designed to be the ideal solution for the widest range of applications. It is the result of a comprehensive design programme carried out by Guardscan to create a compact, intelligent light curtain capable of responding to the current and future needs of industry. The B Series consists of only two small units, the emitter and receiver which produce a fail-safe infra-red curtain across the area to be protected. The scan is optically synchronised by one of the beams and so there is no need for a third electronic unit or any connecting cables between the curtain.

Applications

- Presses
- Packing machines
- Carton gluers
- Robot assembly
- Welding cells

Dimensions



Technical specification

Detection capability	14mm, 30mm, 70mm
Curtain lengths	up to 1800mm
Cross section	45mm x 36mm
Response time	< 18ms
Operating range	6m (14mm), 15m (30mm & 70mm)
Wavelength	880nm
Enclosure rating	IP65
Effective aperture angle	+/- 2 degrees
Power consumption	< 12VA
Safety output type	Solid state Volt-Free
Safety output capacity	0.1A
Safety output voltage	Max. 24V

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Product range

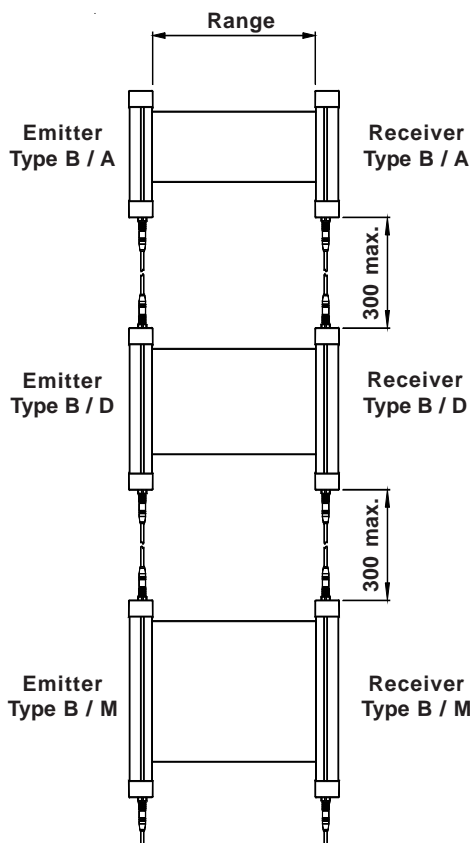
The B Series is available in a variety of curtain lengths and detection capabilities to suit the application. The 14mm and 30mm models are intended for applications where it is necessary to detect fingers and hands. The 14mm curtain has the advantage that it can be mounted closer to the dangerous parts as given by EN999. The 70mm curtains are ideal for the detection of a person's torso in vertical, diagonal or horizontal configurations.

Cascading Systems

The B Series allows for cost-effective presence sensing inside a main curtain. A slave unit provides the means to extend the light curtain beyond a single pair of units. The master and slave units don't need to be the same size or have the same detection capabilities. They can be different, depending on the specific application requirements. However, there is a limit to the total number of beams allowed in a system. A maximum of two slave units can be connected to a master system. Master and slave units can be assembled upto a maximum of 144 beams. Where:

- 14mm detection - 24 beams per 200mm curtain
- 30mm detection - 12 beams per 200mm curtain
- 70mm detection - 4 beams per 200mm curtain

e.g. B/M/1000/30/6 + B/A/400/70/6 = 68 beams



Order code

B / X / XXXX / XX / XX / XX / X

Curtain type:

- S = Standard
- M = Master
- A = Slave
- D = Double-ended slave

Protection height (mm):

- Up to 1200mm (14mm)
- Up to 1800mm (30mm + 70mm)

Detection capability (mm):

- 14 = 14mm
- 30 = 30mm
- 70 = 70mm

Operating range (metres):

- 6 = 0.5-6m (14mm detection)
- 15 = 0.5-15m (30mm + 70mm detection)

Bracket options:

- CB = Clamp bracket
- AB = Adjustable bracket
- EB = End cap bracket

Curtain function:

- B = Beam blanking capability



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