BALLUFF

# Safety Light Curtains BLG 4A

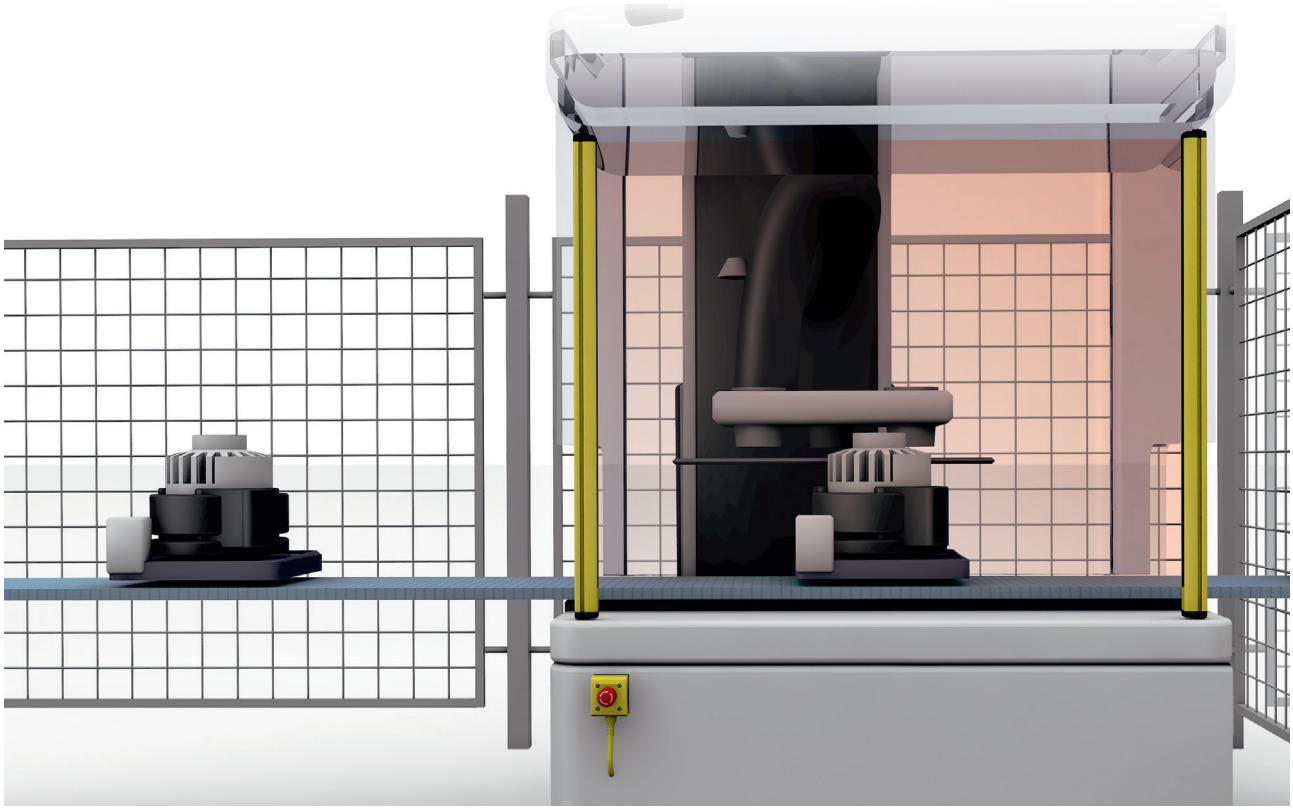
## Economical hazardous area safeguarding for personal protection

- Replaces protective fence constructions for better space utilization
- For fast interaction between man and machine
- High tamper protection
- For finger, hand or body detection
- PLe / SIL 3

c UL us LISTED "ESPE" 4PA1



Safety light curtains are non-contacting guard devices for detecting fingers, hands or bodies. They are used in work areas where machines present potential hazards. Their most important task is to stop hazard-inducing movements. The device consists of an emitter and a receiver and covers the protected area using an infrared field. As soon as the beams from the emitter are interrupted by an object, both output signal switching devices (OSSDs) on the receiver are turned off. This stops the machine connected to the OSSD outputs.



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| Application for | | Finger protection | Hand protection | Body protection |
|---|---|---|---|---|
| Range | | < 6 m | < 19 m | < 50 m |
| Response time | | 11…50 ms | 9…28 ms | 14…16 ms |
| Resolution | | 14 mm | 30 mm | > 315 mm |
| Photoelectric light grid | 150 mm | **BLG000A** | **BLG000T** | |
| | 300 mm | **BLG000C** | **BLG000U** | |
| | 450 mm | **BLG000E** | **BLG000W** | |
| | 515 mm | | | **BLG0006** |
| | 600 mm | **BLG000F** | **BLG000Y** | |
| | 750 mm | **BLG000H** | **BLG000Z** | |
| | 815 mm | | | **BLG0007** |
| | 900 mm | **BLG000J** | **BLG0010** | |
| | 915 mm | | | **BLG0008** |
| | 1050 mm | **BLG000K** | **BLG0011** | |
| | 1200 mm | **BLG000L** | **BLG0012** | |
| | 1215 mm | | | **BLG0009** |
| | 1350 mm | **BLG000R** | **BLG0013** | |
| | 1500 mm | **BLG000M** | **BLG0014** | |
| | 1650 mm | **BLG000N** | **BLG0015** | |
| | 1800 mm | **BLG000P** | **BLG0016** | |
| Switching output | | OSSD | OSSD | OSSD |
| PL (EN ISO 13849-1)/SIL CL (EN/IEC 62061) | | PLe/SIL CL 3 | PLe/SIL CL 3 | PLe/SIL CL 3 |
| Connection | Emitter | M12 male, 4-pin | M12 male, 4-pin | M12 male, 4-pin |
| | Receiver | M12 male, 5-pin | M12 male, 5-pin | M12 male, 5-pin |

**Connectors**





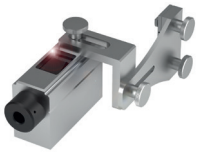


| Type | | Tee | 2 m cable PUR (black), yellow head for safety applications | 2 m cable PUR (black), yellow head for safety applications |
|---|---|---|---|---|
| | | **BCC07WR** | **BCC0H1E** | **BCC0H1L** |
| Connection | Head 1 | M12 female, 5-pin | M12 female, 4-pin (straight) | M12 female, 4-pin (straight) |
| | Head 2 | M12 female, 5-pin | M12 male, 4-pin (straight) | M12 male, 4-pin (right-angle) |
| | Head 3 | M12 male, 5-pin | | |

**Accessories**







| Type | Installation accessory | Mounting accessory | Laser module | Tool |
|---|---|---|---|---|
| | **BAM02N6** | **BAM02NE** | **BAE00WJ** | **BAM02P9** |



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PR1P_Networking-Safety_Lichtgitter_H16_EN. Subject to modification.