



## Appearance

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| Sectional area                | 30*15mm                                           |
| NO.of beams                   | 6~32                                              |
| Protection height             | 50~1240mm                                         |
| Protection distance           | 0.3~3m                                            |
| Beam pitch                    | 20~40mm                                           |
| Min. sized detectable objects | > $\phi$ 28/ $\phi$ 48mm, opaque                  |
| Supply voltage                | 24V DC $\pm$ 10%                                  |
| Current consumption           | <200mA                                            |
| Power consumption             | 3~8W                                              |
| Output type                   | NPN/PNP                                           |
| Synchronization type          | line synchronization                              |
| Response time                 | $\leq$ 15ms                                       |
| Light source                  | Infrared LED (Modulated)                          |
| Protective circuit            | Reverse polarity, output short circuit protection |
| Ambient temperature           | -10~+55°C (No condensation, no freezing)          |
| Ambient humidity              | 35~85%RH                                          |
| Anti-interference ability     | 10000Lux                                          |
| Insulation resistance         | Above 100M $\Omega$ , Based on 500V DC megger     |
| Degree of protection          | IP65                                              |
| Material                      | Aluminium alloy                                   |
| Connection                    | M12 connector                                     |
| Accessories                   | Cable length 3m, female (Customization available) |

Fiber Optic  
Slot Sensors  
Photoelectric  
Laser  
Proximity  
Displacement  
Magnetic  
Contact  
**Area**  
Ultrasonic  
Vibration  
Temperature  
Cables  
Tester

## Guidance

**Light curtains**  
Standard type  
Top-emitting type  
**Side-emitting type**  
Waterproof type  
Measuring type  
Economical type  
  
**Safety Light Curtain**  
Beam pitch 10mm  
Beam pitch 20mm  
Beam pitch 30mm  
Beam pitch 40mm

**LIDAR scanner**  
TOF LIDAR scanner  
MINI LIDAR scanner  
Navigation LIDAR

## BCL20

|                               |                     |                      |                      |                      |                      |                      |                      |
|-------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Beam pitch                    | 20mm                |                      |                      |                      |                      |                      |                      |
| Min. sized detectable objects | > $\phi$ 28, opaque |                      |                      |                      |                      |                      |                      |
| Protection distance           | 0.3~3m              |                      |                      |                      |                      |                      |                      |
| NO.of beams                   | 6                   | 8                    | 10                   | 12                   | 14                   | ... ..               | 32                   |
| Protection height             | 100mm               | 140mm                | 180mm                | 220mm                | 260mm                |                      | 620mm                |
| Light curtain height          | 159mm               | 199mm                | 239mm                | 279mm                | 319mm                | ... ..               | 679mm                |
| Model NO.                     | NPN NC              | <b>BCL20-T0603NC</b> | <b>BCL20-T0803NC</b> | <b>BCL20-T1003NC</b> | <b>BCL20-T1203NC</b> | <b>BCL20-T1403NC</b> | <b>BCL20-T3203NC</b> |
|                               | PNP NC              | <b>BCL20-T0603PC</b> | <b>BCL20-T0803PC</b> | <b>BCL20-T1003PC</b> | <b>BCL20-T1203PC</b> | <b>BCL20-T1403PC</b> | <b>BCL20-T3203PC</b> |

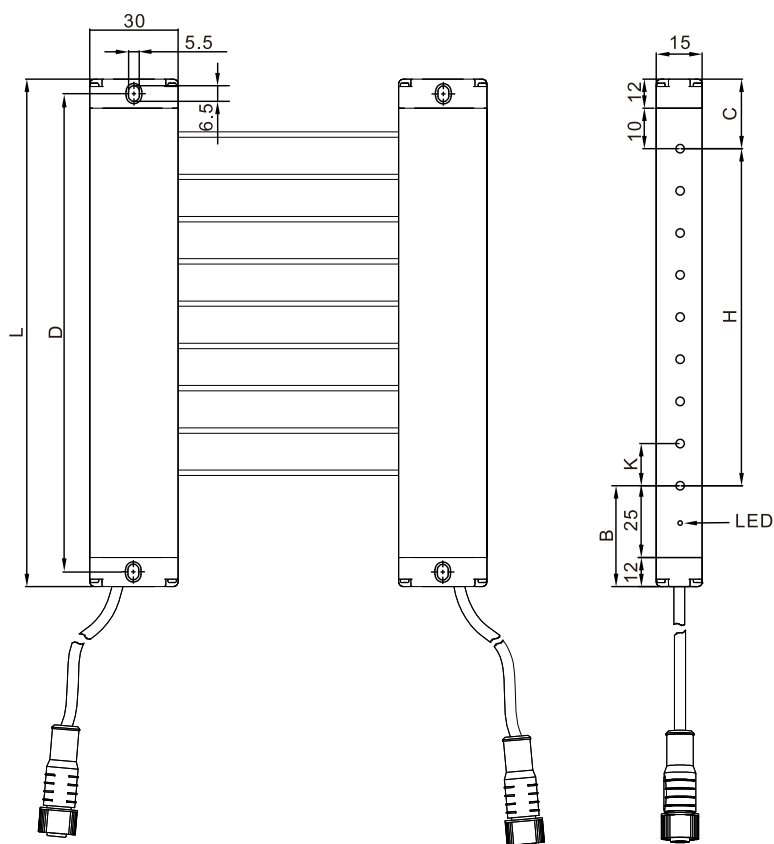
## BCL40

|                               |                     |                      |                      |                      |                      |                      |                      |
|-------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Beam pitch                    | 40mm                |                      |                      |                      |                      |                      |                      |
| Min. sized detectable objects | > $\phi$ 48, opaque |                      |                      |                      |                      |                      |                      |
| Protection distance           | 0.3~3m              |                      |                      |                      |                      |                      |                      |
| NO.of beams                   | 4                   | 6                    | 8                    | 10                   | 12                   |                      | 32                   |
| Protection height             | 120mm               | 200mm                | 280mm                | 360mm                | 440mm                |                      | 1240mm               |
| Light curtain height          | 172.5mm             | 252.5mm              | 332.5mm              | 412.5mm              | 492.5mm              | ... ..               | 1292.5mm             |
| Model NO.                     | NPN NC              | <b>BCL40-T0403NC</b> | <b>BCL40-T0603NC</b> | <b>BCL40-T0803NC</b> | <b>BCL40-T1003NC</b> | <b>BCL40-T1203NC</b> | <b>BCL40-T3203NC</b> |
|                               | PNP NC              | <b>BCL40-T0403PC</b> | <b>BCL40-T0603PC</b> | <b>BCL40-T0803PC</b> | <b>BCL40-T1003PC</b> | <b>BCL40-T1203PC</b> | <b>BCL40-T3203PC</b> |

# Side-emitting Type

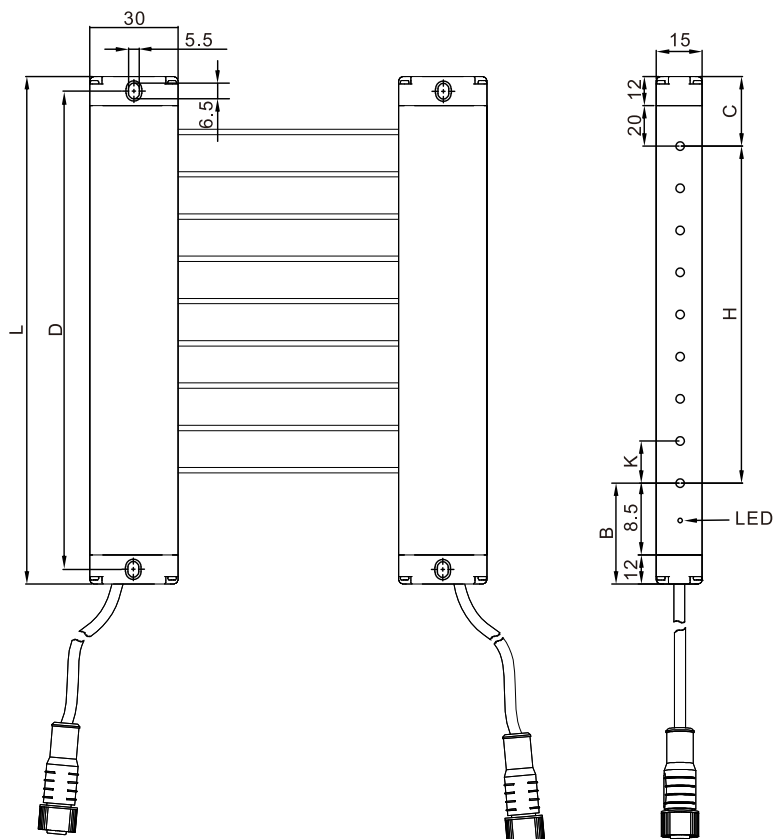
## Dimensions(Unit:mm)

### BCL20



H: Protection Height= ( N-1 ) K  
 L: Light curtain total height=H+59  
 N: No. of beams  
 K: Beam pitch=20  
 B: Lower blind height=37  
 C: Upper blind height=22  
 D: Mounting hole spacing= ( L-11 )

### BCL40



H: Protection Height= ( N-1 ) K  
 L: Light curtain total height=H+52.5  
 N: No. of beams  
 K: Beam pitch=40  
 B: Lower blind height=20.5  
 C: Upper blind height=32  
 D: Mounting hole spacing= ( L-11 )

Area

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 Tester

Guidance

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 Standard type  
 Top-emitting type  
 Side-emitting type  
 Waterproof type  
 Measuring type  
 Economical type  
 Safety Light Curtain  
 Beam pitch 10mm  
 Beam pitch 20mm  
 Beam pitch 30mm  
 Beam pitch 40mm  
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Guidance

Light curtains

- Standard type
- Top-emitting type
- Side-emitting type
- Waterproof type
- Measuring type
- Economical type

Safety Light Curtain

- Beam pitch 10mm
- Beam pitch 20mm
- Beam pitch 30mm
- Beam pitch 40mm

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NPN

PNP

