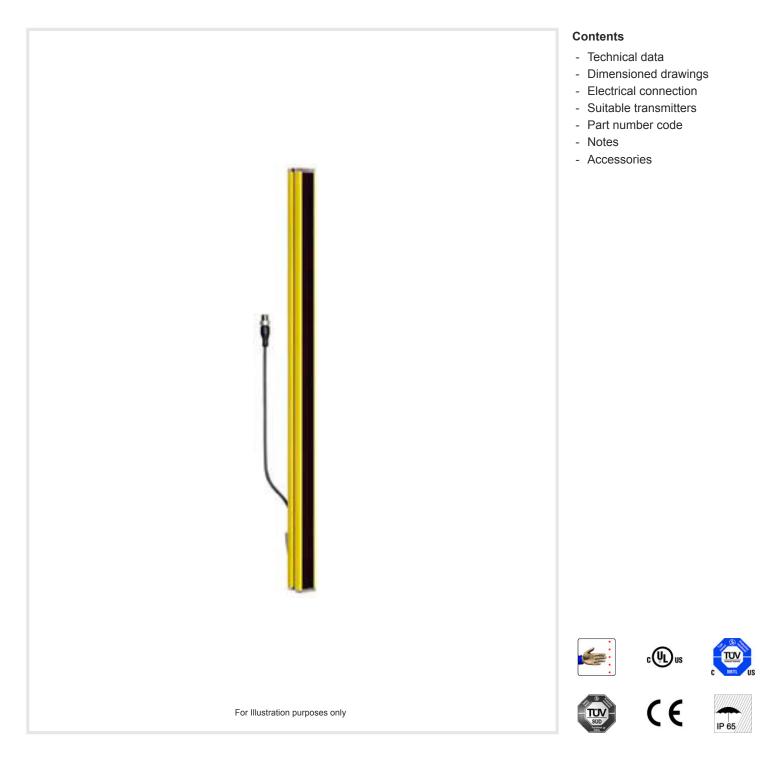


Technical data sheet Safety light curtain receiver

Part no.: 68021301 MLC520R30-150G



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 eng • 2024-07-06

changes

We reserve the right to make technical

Technical data

Basic data

| Series | MLC 500 |
|-------------|------------------------|
| Device type | Receiver |
| Cascading | Guest |
| Contains | 2x BT-NC sliding block |
| Application | Hand protection |

Characteristic parameters

| Туре | 4, IEC/EN 61496 |
|-----------------------------|--------------------------|
| SIL | 3, IEC 61508 |
| SILCL | 3, IEC/EN 62061 |
| Performance Level (PL) | e, EN ISO 13849-1 |
| Mission time T _M | 20 years, EN ISO 13849-1 |
| Category | 4, EN ISO 13849 |
| | |

Protective field data

| Resolution | 30 mm |
|-------------------------|--|
| Protective field height | 150 mm |
| Optical data | |
| Number of beams | 12 Piece(s) |
| | |
| Time behavior | |
| Response time | 2 ms, plus response times of the Host/ Middle Guest devices |
| Connection | |
| Number of connections | 1 Piece(s) |
| | |
| Connection 1 | |
| Function | Cascade, Host In |
| | Cascade, Middle Guest In |
| Type of connection | Cable with connector |

Type of connectionCable with connectorCable length330 mmSheathing materialPURThread sizeM12MaterialPlasticNo. of pins8 -pin

Mechanical data

| Dimension (W x H x L) | 29 mm x 164 mm x 53 mm |
|-----------------------|------------------------|
| Housing material | Metal |
| Metal housing | Aluminum |
| Lens cover material | Plastic / PMMA |
| Material of end caps | Diecast zinc |
| Net weight | 280 g |
| Housing color | Yellow, RAL 1021 |
| Type of fastening | Groove mounting |
| | Mounting brackets |
| | Swivel mount |

Environmental data

| Ambient temperature, operation | 0 55 °C |
|------------------------------------|-----------|
| Ambient temperature, storage | -30 70 °C |
| Relative humidity (non-condensing) | 0 95 % |

Certifications

| Degree of protection | IP 65 |
|----------------------|----------------|
| Protection class | III |
| Certifications | c TÜV NRTL US |
| | c UL US |
| | TÜV Süd |
| Vibration resistance | 50 m/s² |
| Shock resistance | 100 m/s² |
| US patents | US 6,418,546 B |
| | |

Classification

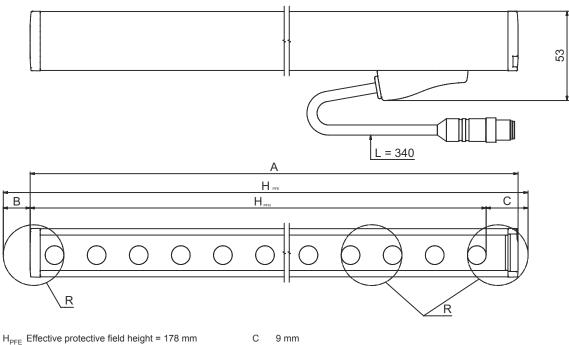
| Chaochtoalton | |
|-----------------------|----------|
| Customs tariff number | 85365019 |
| ECLASS 5.1.4 | 27272704 |
| ECLASS 8.0 | 27272704 |
| ECLASS 9.0 | 27272704 |
| ECLASS 10.0 | 27272704 |
| ECLASS 11.0 | 27272704 |
| ECLASS 12.0 | 27272704 |
| ECLASS 13.0 | 27272704 |
| ECLASS 14.0 | 27272704 |
| ETIM 5.0 | EC002549 |
| ETIM 6.0 | EC002549 |
| ETIM 7.0 | EC002549 |
| ETIM 8.0 | EC002549 |
| ETIM 9.0 | EC002549 |
| | |

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Dimensioned drawings

All dimensions in millimeters

Calculation of the effective protective field height H_{PFE} = H_{PFN} + B + C



R

- H_{PFN} Nominal protective field height = 150 mm
- Total height = 164 mm А
- В 19 mm

Effective protective field height ${\rm H}_{\rm PFE}$ goes beyond the dimensions of the optics area to

the outer borders of the circles labeled with R.

Electrical connection

Connection 1

| Function | Cascade, Host In |
|--------------------|-------------------------------|
| | Cascade, Middle Guest In |
| Type of connection | Cable with connector |
| Cable length | 330 mm |
| Sheathing material | PUR |
| Cable color | Black |
| Type of stranding | Pair stranding (twisted pair) |
| Wire cross section | 0.14 mm² |
| Thread size | M12 |
| Туре | Male |
| Material | Plastic |
| No. of pins | 8 -pin |
| Encoding | A-coded |
| | |

Suitable transmitters

| | Part no. | Designation | Article | Description |
|---|----------|----------------|-------------------------------------|--|
| ļ | 68020301 | MLC500T30-150G | Safety light curtain transmitter | Resolution: 30mm Protective field height: 150mm Operating range: 0 10m Connection: Cable with connector, M12, Plastic, 8 -pin, 330mm, PUR |

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Part number code

Part designation: MLCxyy-za-hhhhei-ooo



| MLC | Safety light curtain |
|------|--|
| x | Series 3: MLC 300 5: MLC 500 |
| уу | Function classes 00: transmitter 01: transmitter (AIDA) 02: transmitter with test input 10: basic receiver - automatic restart 11: basic receiver - automatic restart (AIDA) 20: standard receiver - EDM/RES selectable 30: extended receiver - blanking/muting |
| Z | Device type T: transmitter R: receiver |
| а | Resolution 14: 14 mm 20: 20 mm 30: 30 mm 40: 40 mm 90: 90 mm |
| hhhh | Protective field height 150 … 3000: from 150 mm to 3000 mm |
| e | Host/Guest (optional) H: Host MG: Middle Guest G: Guest |
| i | Interface (optional) /A: AS-i |
| 000 | Option //: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating |
| | Note |
| | A list with all available device types can be found on the Leuze website at www.leuze.com. |

Notes



Observe intended use!

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ The product may only be put into operation by competent persons.

 $\ensuremath{\mathfrak{b}}$ Only use the product in accordance with its intended use.

Accessories

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Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|--|----------|--------------------------------|-----------------------|--|
| | 50135145 | KDS S-M12-8A-M12- 8A-P1-020 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 8 -pin Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR |

Mounting technology - Mounting brackets

| | Part no. | Designation | Article | Description |
|------|----------|-------------|---------------------|--|
| 1111 | 429006 | BT-2L-HG | Mounting device set | Mounting bracket, at device: Screw type Material: Metal |

Mounting technology - Swivel mounts

| | Part no. | Designation | Article | Description |
|--------|----------|-------------|----------------------|---|
| R. Com | 429395 | BT-2HF-G | Mounting bracket set | Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic |

Services

| | Part no. | Designation | Article | Description |
|------------|----------|-------------|-------------------|--|
| \bigcirc | S981050 | CS40-I-140 | Safety inspection | Details: Checking of a safety light barrier application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured. |
| | S981046 | CS40-S-140 | Start-up support | Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. |

Note

✤ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.