



the sensor people



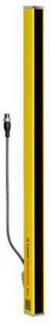


Figure can vary

Part no.: 68020406 MLC500T40-600G Safety light curtain transmitter

















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Technical data

| Basic data | | | |
|-----------------------------|--|--|--|
| Series | MLC 500 | | |
| | Transmitter | | |
| Device type Connecting | Guest | | |
| Cascading | 2x BT-NC sliding block | | |
| Contains | | | |
| Application | Access guarding Danger zone guarding Hand protection | | |
| Characteristic parameters | | | |
| Туре | 4 , IEC/EN 61496 | | |
| SIL | 3 , IEC 61508 | | |
| SILCL | 3 , IEC/EN 62061 | | |
| Mission time T _M | 20 years , EN ISO 13849-1 | | |
| Protective field data | | | |
| Resolution | 40 mm | | |
| Protective field height | 600 mm | | |
| Operating range | 0 20 m | | |
| | | | |
| Optical data | | | |
| Number of beams | 24 Piece(s) | | |
| Light source | LED , Infrared | | |
| LED light wavelength | 940 nm | | |
| Transmitted-signal shape | Pulsed | | |
| LED group | Exempt group in acc. with EN 62471:2008 | | |
| Connection | | | |
| Number of connections | 1 Piece(s) | | |
| Connection 1 | | | |
| Type of connection | Cable with connector | | |
| Function | Cascade, Host In Cascade, Middle Guest In | | |
| Cable length | 330 mm | | |
| Sheathing material | PUR | | |
| Thread size | M12 | | |
| Material | Plastic | | |
| No. of pins | 8 -pin | | |
| Mechanical data | | | |
| Dimension (W x H x L) | 29 mm x 614 mm x 53 mm | | |
| Housing material | Metal , Aluminum | | |
| Lens cover material | Plastic / PMMA | | |
| Material of end caps | Diecast zinc | | |
| Net weight | 723 g | | |
| Housing color | Yellow, RAL 1021 | | |
| Type of fastening | Groove mounting Mounting bracket Swivel mount | | |



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

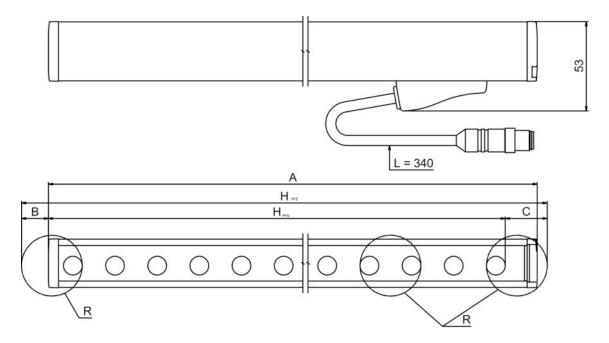
| IP 65 | |
|--------------------------------------|--|
| III | |
| c CSA US c TÜV NRTL US TÜV Süd | |
| 50 m/s² | |
| 100 m/s² | |
| US 6,418,546 B | |
| | III c CSA US c TÜV NRTL US TÜV Süd 50 m/s² 100 m/s² |

| Classification | | |
|-----------------------|----------|--|
| Customs tariff number | 85365019 | |
| eCl@ss 8.0 | 27272704 | |
| eCl@ss 9.0 | 27272704 | |
| ETIM 5.0 | EC002549 | |
| ETIM 6.0 | EC002549 | |

Dimensioned drawings

All dimensions in millimeters

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



HPFE Effective protective field height = 640 mm HPFN Nominal protective field height = 600 mm

- A Total height = 614 mm
- B 25 mm
- C 15 mm



R Effective protective field height HPFE goes beyond the dimensions of the optics area to the outer borders of the circles labeled with R.

Electrical connection

| Connection 1 | | | | |
|--------------------|--|--|--|--|
| Type of connection | Cable with connector | | | |
| Function | Cascade, Host In Cascade, Middle Guest In | | | |
| Cable length | 330 mm | | | |
| Sheathing material | PUR | | | |
| Cable color | Black | | | |
| Type of stranding | Pair stranding (twisted pair) | | | |
| Wire cross section | 0.14 mm ² | | | |
| Thread size | M12 | | | |
| Туре | Male | | | |
| Material | Plastic | | | |
| No. of pins | 8 -pin | | | |
| Encoding | A-coded | | | |

Suitable receivers

| Part no. | Designation | Article | Description |
|----------|----------------|------------------|---|
| 68021406 | MLC520R40-600G | curtain receiver | Resolution: 40 mm Protective field height: 600 mm Response time: 5 ms Connection: Cable with connector, M12, Plastic, 8 -pin, 330 mm, PUR |

Part number code

Part designation: MLCxyy-za-hhhhei-ooo

| MLC | Safety light curtain |
|------|--|
| х | 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 |



| MLC | Safety light curtain |
|-----|---|
| е | Host/Guest (optional): H: Host MG: Middle Guest G: Guest |
| i | Interface (optional): /A: AS-i |
| 000 | Option: /V: 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 electronic website at www.leuze.com.

Notes

Observe intended use!

- The product may only be put into operation by competent persons.
- · Only use the product in accordance with its intended use.

Accessories

Connection technology - Interconnection cables

| Part no. | Designation | Article | Description |
|----------|----------------------|-----------------------|--|
| 429278 | CB- M12-2000E-8TP | 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 |
|----------|-------------|---------------------|---|
| 429006 | BT-2L-HG | Mounting device set | Mounting bracket, at device: Screw type Material: Metal |



Mounting technology - Swivel mounts

| | Part no. | Designation | Article | Description |
|------|----------|-------------|----------------------|--|
| Page | 429395 | BT-2HF-G | Mounting bracket set | Contains: 2x BT-HF swivel mount, 2 cylinders for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic |

Alignment aids

| Part no. | Designation | Article | Description |
|----------|-------------|---------------|---------------------------|
| 520101 | AC-ALM-M | Alignment aid | Housing material: Plastic |

Services

| Part no. | Designation | Article | Description |
|----------|-------------|---|--|
| S981050 | CS40-I-140 | Safety inspection "Safety light barriers" | 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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure. |
| 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. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment. |

Note

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