### SMART SENSOR BUSINESS

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Part no.: 68002301 MLC520R30-150 Safety light curtain receiver



Figure can vary

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## Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

#### **Technical data**

| Basic data                         |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|
| Series                             | MLC 500  |  |  |  |  |
| Device type                        | Receiver   |  |  |  |  |
| Contains                           | 2x BT-NC sliding block   |  |  |  |  |
| Application                        | Hand protection  |  |  |  |  |
|                                    |  |  |  |  |  |
| Functions                          |  |  |  |  |  |
| Function package                   | Standard   |  |  |  |  |
| Functions                          | Transmission channel changeover<br>Start/restart interlock (RES)<br>Contactor monitoring (EDM) |  |  |  |  |
| Characteristic parameters          |  |  |  |  |  |
| Туре                               | 4, IEC/EN 61496  |  |  |  |  |
| SIL                                | 3, IEC 61508   |  |  |  |  |
| SILCL                              | 3, IEC/EN 62061  |  |  |  |  |
| Performance Level (PL)             | e, EN ISO 13849-1  |  |  |  |  |
| PFHD                               | 7.73E-09 per hour  |  |  |  |  |
| Mission time T <sub>M</sub>        | 20 years, EN ISO 13849-1   |  |  |  |  |
| Category                           | 4, EN ISO 13849  |  |  |  |  |
| Protective field data              |  |  |  |  |  |
| Resolution                         | 30 mm  |  |  |  |  |
| Protective field height            | 150 mm   |  |  |  |  |
|                                    |  |  |  |  |  |
| Optical data                       |  |  |  |  |  |
| Synchronization                    | Optical between transmitter and receiver   |  |  |  |  |
| Electrical data                    |  |  |  |  |  |
| Protective circuit                 | Overvoltage protection<br>Short circuit protected  |  |  |  |  |
| Performance data                   |  |  |  |  |  |
| Supply voltage                     | 24 V, DC, -20 20 %   |  |  |  |  |
| Current consumption, max.          | 150 mA   |  |  |  |  |
| Fuse                               | 2 A semi time-lag  |  |  |  |  |
| Inputs                             |  |  |  |  |  |
| Number of digital switching inputs | 3 Piece(s)   |  |  |  |  |
| Switching inputs                   |  |  |  |  |  |
| Туре                               | Digital switching input  |  |  |  |  |
| Switching voltage high, min.       | 18 V   |  |  |  |  |
| Switching voltage low, max.        | 2.5 V  |  |  |  |  |
| Switching voltage, typ.            | 22.5 V   |  |  |  |  |
| Voltage type                       | DC   |  |  |  |  |

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| mber of safety-related switching outputs (OSSDs)  | 2 Piece(s)  |  |  |  |  |
|---|---|--|--|--|--|
| Safety-related switching outputs  | 2 + 1000(0)   |  |  |  |  |
| Type  | Safety-related switching output OSSD  |  |  |  |  |
| Switching voltage high, min.  | 18 V  |  |  |  |  |
| Switching voltage low, max.   | 2.5 V   |  |  |  |  |
| Switching voltage, typ.   | 22.5 V  |  |  |  |  |
| Voltage type  | DC  |  |  |  |  |
| Current load, max.  | 380 mA  |  |  |  |  |
| Load inductivity  | 2,000 µH  |  |  |  |  |
| Load capacity   | 0.3 μF  |  |  |  |  |
| Residual current, max.  | 0.2 mA  |  |  |  |  |
| Residual current, typ.  | 0.002 mA  |  |  |  |  |
| Voltage drop  | 1.5 V   |  |  |  |  |
| Safety-related switching output 1   |   |  |  |  |  |
| Assignment  | Connection 1, pin 5   |  |  |  |  |
| Switching element   | Transistor, PNP   |  |  |  |  |
| Safety-related switching output 2   |   |  |  |  |  |
| Assignment  | Connection 1, pin 6   |  |  |  |  |
| Switching element   | Transistor, PNP   |  |  |  |  |
|   |   |  |  |  |  |
| ing   |   |  |  |  |  |
| ponse time  | 3 ms  |  |  |  |  |
| tort dolou timo   | 100 ms  |  |  |  |  |
|   | 100 ms  |  |  |  |  |
| tart delay time   | 100 ms  |  |  |  |  |
| nection   | 100 ms  |  |  |  |  |
|   | 1 Piece(s)  |  |  |  |  |
| nnection  |   |  |  |  |  |
| nnection<br>nber of connections   |   |  |  |  |  |
| nnection<br>nber of connections<br>Connection 1   | 1 Piece(s)  |  |  |  |  |
| nnection<br>nber of connections<br>Connection 1<br>ype of connection  | 1 Piece(s)<br>Connector   |  |  |  |  |
| nnection<br>nber of connections<br>Connection 1<br>ype of connection<br>unction   | 1 Piece(s)<br>Connector<br>Machine interface  |  |  |  |  |
| Intection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Tunction<br>Inread size  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12   |  |  |  |  |
| Innection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Function<br>Thread size<br>Material  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal  |  |  |  |  |
| Interview of connections  Connection 1  Specific connection  unction  hread size  faterial  lo. of pins  Cable properties  Permissible conductor cross section, typ.  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal  |  |  |  |  |
| Intection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Unction<br>Inread size<br>Interial<br>Io. of pins<br>Cable properties  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin  |  |  |  |  |
| Interview of connections  Connection 1  Specific connection  unction  hread size  faterial  lo. of pins  Cable properties  Permissible conductor cross section, typ.  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm <sup>2</sup>  |  |  |  |  |
| Intection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Tunction<br>Inread size<br>Idaterial<br>Io. of pins<br>Cable properties<br>Permissible conductor cross section, typ.<br>ength of connection cable, max.  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm <sup>2</sup><br>100 m   |  |  |  |  |
| Intection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Tunction<br>Inread size<br>Idaterial<br>Io. of pins<br>Cable properties<br>Permissible conductor cross section, typ.<br>ength of connection cable, max.  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm <sup>2</sup><br>100 m   |  |  |  |  |
|   | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm²<br>100 m<br>200 Ω<br>29 mm x 216 mm x 35.4 mm  |  |  |  |  |
| Interview of connections  Connection 1  Some of connection  Unction  Inread size  Aaterial  Io. of pins  Cable properties  Permissible conductor cross section, typ.  ength of connection cable, max.  Permissible cable resistance to load, max.  Chanical data  | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm <sup>2</sup><br>100 m<br>200 Ω  |  |  |  |  |
|   | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm²<br>100 m<br>200 Ω<br>29 mm x 216 mm x 35.4 mm  |  |  |  |  |
| Innection<br>Inber of connections<br>Connection 1<br>Type of connection<br>Function<br>Thread size<br>Material<br>Io. of pins<br>Cable properties<br>Permissible conductor cross section, typ.<br>ength of connection cable, max.<br>Permissible cable resistance to load, max.<br>Permissible cable resistance to load, max.   | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm²<br>100 m<br>200 Ω<br>29 mm x 216 mm x 35.4 mm<br>Metal, Aluminum   |  |  |  |  |
| Innection         hber of connections         Connection 1         type of connection         unction         hread size         faterial         lo. of pins         Cable properties         Permissible conductor cross section, typ.         ength of connection cable, max.         Permissible cable resistance to load, max.         Chanical data         ension (W x H x L)         sing material         s cover material   | 1 Piece(s)<br>Connector<br>Machine interface<br>M12<br>Metal<br>8 -pin<br>0.25 mm <sup>2</sup><br>100 m<br>200 Ω<br>29 mm x 216 mm x 35.4 mm<br>Metal, Aluminum<br>Plastic / PMMA   |  |  |  |  |
| Innection         Inber of connections         Connection 1         type of connection         unction         hread size         Iaterial         lo. of pins         Cable properties         Permissible conductor cross section, typ.         ength of connection cable, max.         Permissible cable resistance to load, max.  | 1 Piece(s)         Connector         Machine interface         M12         Metal         8 -pin         0.25 mm²         100 m         200 Ω  |  |  |  |  |
| Innection         heber of connections         Connection 1         type of connection         unction         thread size         Material         lo. of pins         Cable properties         Permissible conductor cross section, typ.         ength of connection cable, max.         Permissible cable resistance to load, max.  | 1 Piece(s)         Connector         Machine interface         M12         Metal         8 -pin         0.25 mm²         100 m         200 Ω         29 mm x 216 mm x 35.4 mm         Metal, Aluminum         Plastic / PMMA         Diecast zinc         300 g         Yellow, RAL 1021         Mounting bracket |  |  |  |  |
| Innection         heber of connections         Connection 1         type of connection         unction         hread size         Material         lo. of pins         Cable properties         Permissible conductor cross section, typ.         ength of connection cable, max.         Permissible cable resistance to load, max. | 1 Piece(s)         Connector         Machine interface         M12         Metal         8 -pin         0.25 mm²         100 m         200 Ω         29 mm x 216 mm x 35.4 mm         Metal, Aluminum         Plastic / PMMA         Diecast zinc         300 g         Yellow, RAL 1021                          |  |  |  |  |

Operation and display

### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

| Type of display                    | 7-segment display<br>LED                       |  |  |  |
|------------------------------------|--|--|--|--|
| Number of LEDs                     | 2 Piece(s)                                     |  |  |  |
|                                    |  |  |  |  |
| Environmental data                 |  |  |  |  |
| Ambient temperature, operation     | -30 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 CSA US<br>S Mark<br>TÜV Süd<br>c TÜV NRTL US |  |  |  |
| Vibration resistance               | 50 m/s²  |  |  |  |
| Shock resistance                   | 100 m/s²                                       |  |  |  |
| US patents                         | US 6,418,546 B                                 |  |  |  |
| Classification                     |  |  |  |  |
| eCl@ss 8.0                         | 27272704                                       |  |  |  |
| eCl@ss 9.0                         | 27272704                                       |  |  |  |
| ETIM 5.0                           | EC002549                                       |  |  |  |

#### Suitable transmitters

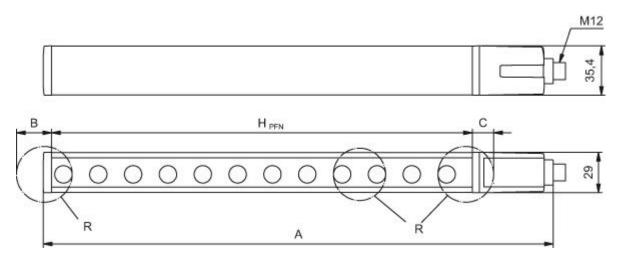
| Part no. | Designation   | Article     | Description  |
|----------|---------------|-------------|--|
| 68000301 | MLC500T30-150 | transmitter | Resolution: 30 mm<br>Protective field height: 150 mm<br>Operating range: 0 10 m<br>Connection: Connector, M12, Metal, 5 -pin |

#### **Dimensioned drawings**

All dimensions in millimeters

#### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

#### Calculation of the effective protective field height HPFE = HPFN + B + C

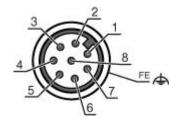


- Effective protective field height = 178 mm Nominal protective field height = 150 mm HPFE
- Hpfn
- Total height = 216 mm 19 mm
- A B C
- 9 mm
- Effective protective field height HPFE goes beyond the dimensions of the optics area to the outer R borders of the circles labeled with R.

#### **Electrical connection**

| Connection 1       |                   |
|--------------------|-------------------|
| Type of connection | Connector         |
| Function           | Machine interface |
| Thread size        | M12               |
| Туре               | Male              |
| Material           | Metal             |
| No. of pins        | 8 -pin            |
| Encoding           | A-coded           |
| Connector housing  | FE/SHIELD         |

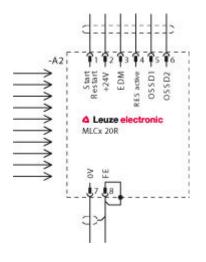
| Pin | Pin assignment | Conductor color |
|-----|----------------|-----------------|
| 1   | IO1            | White           |
| 2   | VIN1           | Brown           |
| 3   | IN3            | Green           |
| 4   | IN4            | Yellow          |
| 5   | OSSD1          | Gray            |
| 6   | OSSD2          | Pink            |
| 7   | VIN2           | Blue            |
| 8   | IN8            | Red             |



### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

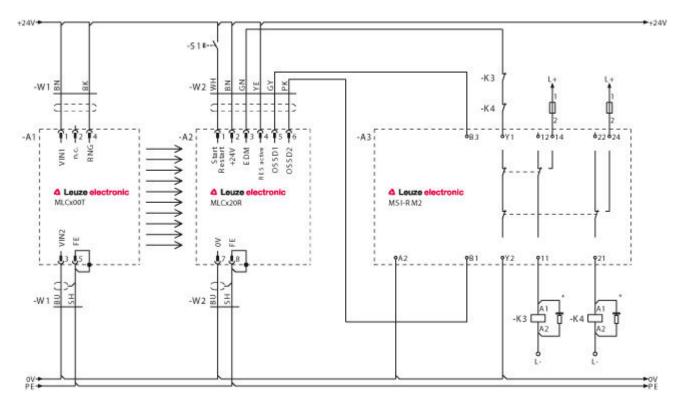
#### **Circuit diagrams**

Connection diagram receiver



VIN1 = +24 V, VIN2 = 0 V: transmission channel C1 VIN1 = 0 V, VIN2 = +24 V: transmission channel C2 •

Circuit diagram example with downstream MSI-RM2 safety relay



#### **Operation and display**

LEDs

| LED | Display | Meaning             |
|-----|---------|---------------------|
| 1   | Off     | Device switched off |

### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

| LED | Display                  | Meaning   |  |
|-----|--------------------------|---|--|
|     | Red, continuous light    | OSSD off  |  |
|     | Red, flashing, 1 Hz      | External error  |  |
|     | Red, flashing, 10 Hz     | Internal error  |  |
|     | Green, flashing, 1 Hz    | OSSD on, weak signal  |  |
|     | Green, continuous light  | OSSD on   |  |
| 2   | Off                      | RES deactivated or RES activated and enabled or RES blocked and<br>protective field interrupted                       |  |
|     | Yellow, continuous light | RES activated and blocked but ready to be unlocked - protective field free and linked sensor is enabled if applicable |  |

#### Part number code

Part designation: MLCxyy-za-hhhhei-ooo

| MLC  | Safety light curtain  |
|------|---|
| x    | Series:<br>3: MLC 300<br>5: MLC 500   |
| уу   | Function classes:<br>00: Transmitter<br>01: transmitter (AIDA)<br>02: Transmitter with test input<br>10: Basic receiver - automatic restart<br>11: basic receiver - automatic restart (AIDA)<br>20: Standard receiver - EDM/RES selectable<br>30: Extended receiver - blanking/muting |
| Z    | Device type:<br>T: transmitter<br>R: receiver   |
| а    | Resolution:           14: 14 mm           20: 20 mm           30: 30 mm           40: 40 mm           90: 90 mm   |
| hhhh | Protective field height:<br>150 3000: from 150 mm to 3000 mm  |
| е    | Host/Guest (optional):<br>H: Host<br>MG: Middle Guest<br>G: Guest   |
| i    | Interface (optional):<br>/A: AS-i   |
| 000  | Option:<br>/V: high Vibration-proof<br>EX2: explosion protection (zones 2 + 22)<br>SPG: Smart Process Gating  |

#### Note

A list with all available device types can be found on the Leuze electronic website at www.leuze.com.

#### Accessories

Connection technology - Connection cables

| Part no. | Designation            | Article          | Description   |
|----------|------------------------|------------------|---|
| 429288   | CB-<br>M12-25000-8GF   | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 25,000 mm<br>Sheathing material: PUR  |
| 429289   | CB-<br>M12-50000-8GF   | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 50,000 mm<br>Sheathing material: PUR  |
| 50135128 | KD S-M12-8A-<br>P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR  |
| 50135129 | KD S-M12-8A-<br>P1-100 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| 50135130 | KD S-M12-8A-<br>P1-150 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 15,000 mm<br>Sheathing material: PUR |
| 50135131 | KD S-M12-8A-<br>P1-250 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 25,000 mm<br>Sheathing material: PUR |
| 50135132 | KD S-M12-8A-<br>P1-500 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 50,000 mm<br>Sheathing material: PUR |
| 50135122 | KD U-M12-8A-<br>P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 5,000 mm<br>Sheathing material: PUR   |
| 50135123 | KD U-M12-8A-<br>P1-100 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 10,000 mm<br>Sheathing material: PUR  |

### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

| Part no. | Designation            | Article          | Description  |
|----------|------------------------|------------------|--|
|          | KD U-M12-8A-<br>P1-150 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin<br>Connection 2: Open end<br>Shielded: No<br>Cable length: 15,000 mm<br>Sheathing material: PUR |

### Connection technology - Connectors

|        | Part no. | Designation | Article   | Description  |
|--------|----------|-------------|-----------|--|
| · Dedu | 429178   | CB-M12-8GF  | Connector | Connection: Connector, M12, Axial, Female, A-coded, 8 -pin |

### Mounting technology - Mounting brackets

|           | Part no. | Designation | Article                 | Description   |
|-----------|----------|-------------|-------------------------|---|
|           | 429056   | BT-2L       | Mounting bracket<br>set | Design of mounting device: Angle, L-shape<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Screw type<br>Material: Metal |
| The state | 429057   | BT-2Z       | Mounting bracket set    | Design of mounting device: Angle, Z-shape<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Screw type<br>Material: Metal |

### Mounting technology - Swivel mounts

|          | Part no. | Designation | Article              | Description   |
|----------|----------|-------------|----------------------|---|
| P.a.     | 429393   | BT-2HF      | Mounting bracket set | Contains: 2x BT-HF swivel mount, 1 cylinder for mounting on<br>the light curtain<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable<br>Type of mounting device: Turning, 360°<br>Material: Metal, Plastic                        |
| <b>P</b> | 429394   | BT-2HF-S    | Mounting bracket set | Contains: 2x BT-HF swivel mount, 1 cylinder for mounting on<br>the light curtain<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable<br>Type of mounting device: Turning, 360°<br>Material: Metal, Plastic<br>Shock absorber: Yes |

### Mounting technology - Other

| Part no. | Designation | Article | Description  |
|----------|-------------|---------|--|
| 425740   | BT-10NC60   |         | Contains: 10x BT-NC sliding block<br>Bore hole 1: Ø 4.7 mm<br>Bore hole 2: M6<br>Design of mounting device: Sliding block<br>Mounting bracket, at system: Mounting thread<br>Mounting bracket, at device: Groove mounting<br>Material: Metal |

## Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

|   | Part no. | Designation | Article                 | Description   |
|---|----------|-------------|-------------------------|---|
| ***                                     | 425741   | BT-10NC64   | Sliding block set       | Contains: 10x BT-NC-M4-M6 sliding block<br>Bore hole 1: M4<br>Bore hole 2: M6<br>Design of mounting device: Sliding block<br>Mounting bracket, at system: Mounting thread<br>Mounting bracket, at device: Groove mounting<br>Material: Metal                                |
|   | 425742   | BT-10NC65   | Sliding block set       | Contains: 10x BT-NC-M5-M6 sliding block<br>Bore hole 1: M5<br>Bore hole 2: M6<br>Design of mounting device: Sliding block<br>Mounting bracket, at system: Mounting thread<br>Mounting bracket, at device: Groove mounting<br>Material: Metal                                |
| E.E.                                    | 424417   | BT-2P40     | Mounting bracket<br>set | Contains: 2x BT-P40 clamp bracket<br>Design of mounting device: Mounting clamp<br>Mounting bracket, at system: Groove mounting<br>Mounting bracket, at device: Groove mounting<br>Type of mounting device: Clampable<br>Material: Metal                                     |
| And | 424422   | BT-2SB10    | Mounting bracket<br>set | Contains: 2x BT-SB10<br>Design of mounting device: Mounting clamp<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable, an der seitlichen C-Nut<br>Type of mounting device: Swiveling<br>Swivel range: -8 8 °<br>Material: Metal |
| A CAR                                   | 424423   | BT-2SB10-S  | Mounting bracket<br>set | Contains: 2x BT-SB10-S<br>Design of mounting device: Mounting clamp<br>Mounting bracket, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable, an der seitlichen C-Nut<br>Swivel range: -8 8 °<br>Material: Metal<br>Shock absorber: Yes              |

### Display/operating elements

| Part no. | Designation | Article                | Description   |
|----------|-------------|------------------------|---|
| 426296   | AC-ABF70    | Acknowledgment<br>unit | Switching current via button: 1 1,000 mA<br>Housing material: Glass fiber reinforced (PPS), self-<br>extinguishing<br>Clamping plate material: Stainless steel<br>Degree of protection: IP 67, IP 69K<br>Functions: Reset of the start/restart interlock, Overriding with<br>AOPDs with muting function, Illuminated reset buttons<br>Reset buttons: Yes<br>LED indicators: Yes |

### Test rods

| Part no. | Designation | Article | Description  |
|----------|-------------|---------|--|
| 349945   | AC-TR14/30  |         | Diameter 1: 14 mm<br>Diameter 2: 30 mm<br>Housing material: Plastic, ABS |

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### Alignment aids

|             | Part no. | Designation | Article       | Description   |
|-------------|----------|-------------|---------------|---|
| 0 4 4 4 5 5 | 427300   | AC-ALM      | Alignment aid | Housing material: Plastic                           |
| -           | 520101   | AC-ALM-M    | Alignment aid | Housing material: Plastic                           |
|             | 560020   | LA-78U      | Alignment aid | Light source: laser, Red<br>Housing material: Metal |
|             | 520004   | LA-78UDC    | Alignment aid | Light source: laser, Red<br>Housing material: Metal |

### Protective screens

| Part no. | Designation | Article              | Description   |
|----------|-------------|----------------------|---|
| 429038   | MLC-2PSF    | Mounting bracket set | Type of fastening: Clampable<br>Mounting device material: Metal |
| 347070   | MLC-PS150   | Protective screen    | Protective field height: 150 mm<br>Material: PMMA, clear        |

### Deflecting mirror

| Part no. | Designation | Article           | Description   |
|----------|-------------|-------------------|---|
| 529601   | UM60-150    | Deflecting mirror | Dimensions: 25 mm x 220 mm x 68 mm<br>Protected field height up to: 150 mm<br>Mirror length: 210 mm |

## Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

#### Device columns

|        | Part no. | Designation | Article       | Description   |
|--------|----------|-------------|---------------|---|
| *      | 549856   | UDC-1000-S2 | Device column | Dimensions: 160 mm x 1,060 mm x 149 mm<br>Column height without foot: 1,000 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions |
|        | 549852   | UDC-1300-S2 | Device column | Dimensions: 160 mm x 1,360 mm x 149 mm<br>Column height without foot: 1,300 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions |
| 2      | 549853   | UDC-1600-S2 | Device column | Dimensions: 160 mm x 1,660 mm x 149 mm<br>Column height without foot: 1,600 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions |
|        | 549854   | UDC-1900-S2 | Device column | Dimensions: 160 mm x 1,960 mm x 149 mm<br>Column height without foot: 1,900 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions |
|        | 549867   | UDC-2100-S2 | Device column | Dimensions: 160 mm x 2,160 mm x 149 mm<br>Column height without foot: 2,100 mm<br>Functions: Adjustable, 3 directions, Mounting and protection of<br>light curtains and multiple light beam devices |
|        | 549857   | UDC-2500-S2 | Device column | Dimensions: 160 mm x 2,560 mm x 149 mm<br>Column height without foot: 2,500 mm<br>Functions: Adjustable, 3 directions, Mounting and protection of<br>light curtains and multiple light beam devices |
|        | 549865   | UDC-3100-S2 | Device column | Dimensions: 160 mm x 3,160 mm x 149 mm<br>Column height without foot: 3,100 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions |
| 1<br>T | 549855   | UDC-900-S2  | Device column | Dimensions: 160 mm x 960 mm x 149 mm<br>Column height without foot: 900 mm<br>Functions: Mounting and protection of light curtains and multiple<br>light beam devices, Adjustable, 3 directions     |

### Part no.: 68002301 – MLC520R30-150 – Safety light curtain receiver

#### 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.