

# Technical data sheet

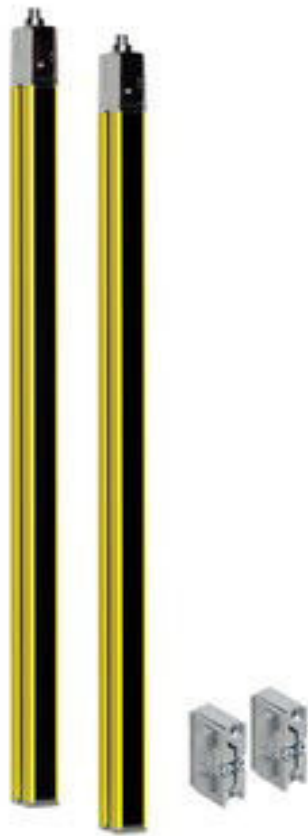
## Safety sensor set

Part no.: 426675

MLC510-14-1800-SB10

### Contents

- Set consists of
- Technical data
- Part number code



For illustration purposes only



## Set consists of

|                                                                                  | Quantity | Part no. | Designation    | Article                          | Description                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------|----------|----------|----------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 2        | 424422   | BT-2SB10       | Mounting bracket set             | Design of mounting device: Mounting clamp<br>Fastening, at system: Through-hole mounting<br>Mounting bracket, at device: Clampable, On the lateral C-groove<br>Type of mounting device: Swiveling<br>Swivel range: -8 ... 8 °<br>Material: Metal |
|                                                                                  | 1        | 68000118 | MLC500T14-1800 | Safety light curtain transmitter | Resolution: 14 mm<br>Protective field height: 1,800 mm<br>Operating range: 0 ... 6 m<br>Connection: Connector, M12, Metal, 5 -pin                                                                                                                |
|                                                                                  | 1        | 68001118 | MLC510R14-1800 | Safety light curtain receiver    | Function package: Basic<br>Resolution: 14 mm<br>Protective field height: 1,800 mm<br>Response time: 39 ms<br>Connection: Connector, M12, Metal, 5 -pin                                                                                           |

## Technical data

### Basic data

|             |                                |
|-------------|--------------------------------|
| Series      | MLC 500                        |
| Device type | Set (transmitter and receiver) |
| Application | Finger protection              |

### Functions

|           |                                 |
|-----------|---------------------------------|
| Functions | Automatic start/restart         |
|           | Range reduction                 |
|           | Transmission channel changeover |

### Characteristic parameters

|                             |                          |
|-----------------------------|--------------------------|
| Type                        | 4, IEC/EN 61496          |
| SIL                         | 3, IEC 61508             |
| SILCL                       | 3, IEC/EN 62061          |
| Performance Level (PL)      | e, EN ISO 13849-1        |
| PFH <sub>D</sub>            | 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              | 14 mm     |
| Protective field height | 1,800 mm  |
| Operating range         | 0 ... 6 m |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|----------------------|-------|

### Classification

|              |          |
|--------------|----------|
| 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 |
| ECLASS 15.0  | 27272704 |
| ETIM 5.0     | EC002549 |
| ETIM 6.0     | EC002549 |
| ETIM 7.0     | EC002549 |
| ETIM 8.0     | EC002549 |
| ETIM 9.0     | EC002549 |
| ETIM 10.0    | EC002549 |

## Part number code

Part designation: MLCxyy-za-hhhhei-ooo

**MLC**                      **Safety light curtain**

|   |            |
|---|------------|
| x | Series     |
|   | 3: MLC 300 |
|   | 5: MLC 500 |

Part number code

MLC Safety light curtain

|      |                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| yy   | <b>Function classes</b><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 or gating<br>35: Extended receiver – Gating |
| z    | <b>Device type</b><br>T: transmitter<br>R: receiver                                                                                                                                                                                                                                                                                   |
| a    | <b>Resolution</b><br>14: 14 mm<br>20: 20 mm<br>30: 30 mm<br>40: 40 mm<br>90: 90 mm                                                                                                                                                                                                                                                    |
| hhhh | <b>Protective field height</b><br>150 ... 3000: from 150 mm to 3000 mm                                                                                                                                                                                                                                                                |
| e    | <b>Host/Guest (optional)</b><br>H: Host<br>MG: Middle Guest<br>G: Guest                                                                                                                                                                                                                                                               |
| i    | <b>Interface (optional)</b><br>/A: AS-i                                                                                                                                                                                                                                                                                               |
| ooo  | <b>Option</b><br>/V: high Vibration-proof<br>EX2: explosion protection (zones 2 + 22)<br>SPG: Smart Process Gating<br>SPG RR: Smart Process Gating – Reduced resolution                                                                                                                                                               |

| Note                                                                               |                                                                                                                                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  | A list with all available device types can be found on the Leuze website at <a href="http://www.leuze.com">www.leuze.com</a> . |