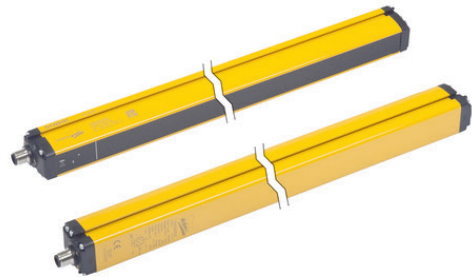


**OY320139**

**SAFETY SYSTEMS • LIGHT CURTAINS - FINGER PROTECTION**

safety light curtains are suitable for the protection of hazardous areas on machines according to the applicable standards. there are three groups of devices: body protection (2, 3 and 4 rays), hand protection (resolution 30mm) and finger protection (resolution 14mm). each group has devices with different protection field heights. Often these systems are used in conveyors, welding robots as well as cutting and bending machines



**MECHANICAL DATA**

|                             |                   |
|-----------------------------|-------------------|
| Ambient temperature         | 0 °C ... 55 °C    |
| Degree of protection (IP)   | IP65              |
| Housing material            | Aluminium painted |
| Material of optical surface | PMMA              |
| Protected field height      | 1500 mm           |
| Sensor height               | 36.9 mm           |
| Sensor length               | 1583.3 mm         |
| Sensor width                | 32.3 mm           |

**ELECTRICAL DATA**

|   |                            |
|---|----------------------------|
| Cascadable                                | No                         |
| Clock control possible                    | No                         |
| Equipment protection class                | Protection class 3         |
| Max. output current at safe output        | 500 mA                     |
| No-load current, receiver                 | 150 mA                     |
| No-load current, transmitter              | 105 mA                     |
| Number of pins, receiver                  | 8                          |
| Number of pins, transmitter               | 4                          |
| Number of safe semiconductor outputs      | 2                          |
| Override possible                         | No                         |
| Rated control supply voltage $U_s$ at DC  | 24 V ... 24 V              |
| Reaction time                             | 43 ms                      |
| Reverse polarity protection               | Yes                        |
| Short-circuit-proof                       | Yes                        |
| Suitable for safety functions             | Yes                        |
| Suppression possible                      | No                         |
| Switching output type of the OSSD         | PNP                        |
| Switching voltage of OSSD at state "high" | 24 V                       |
| Type of electrical connection             | Connector M12              |
| Type of switching function                | Normally open contact (NO) |
| Voltage type                              | DC                         |

## ELECTRICAL DATA

|  |     |
|--|-----|
| With LED display (7 segment)                   | Yes |
| With monitoring function of downstream devices | Yes |
| With muting function                           | No  |
| With restart lock                              | Yes |

## OPTICAL DATA

|                                  |        |
|----------------------------------|--------|
| Detection capability for samples | 14 mm  |
| Finger protection (< 14mm)       | Yes    |
| Number of beams                  | 160    |
| Protected field range            | 6 m    |
| Resolution of the light curtain  | 14 mm  |
| Wavelength of the sensor         | 950 nm |

## OTHER DATA

|   |                          |
|---|--------------------------|
| Air humidity                            | 95 %                     |
| Air humidity                            | 15 %                     |
| Explosion protection category for dust  | None                     |
| Explosion protection category for gas   | None                     |
| Safety category                         | Category 4               |
| Safety type in acc. with IEC 61496-1    | 4                        |
| Scope of delivery of the one-way system | Transmitter and receiver |
| With beam coding                        | Yes                      |

## CONNECTION



**Colors:** A: 1 = WH (white), 2 = BN (brown), 3 = GN (green), 4 = YE (yellow), 5 = GY (gray), 6 = PK (pink), 7 = BU (blue), 8 = RD (red)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = reset/restart, 2 = L+, 3 = EDM, 4 = EDM, 5 = OSSD1, 6 = OSSD2, 7 = L-, 8 = man./auto

B: 1 = L+, 2 = test, 3 = L-, 4 = n. c.

## DIMENSIONAL DRAWING

### INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

### DISPOSAL



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

