

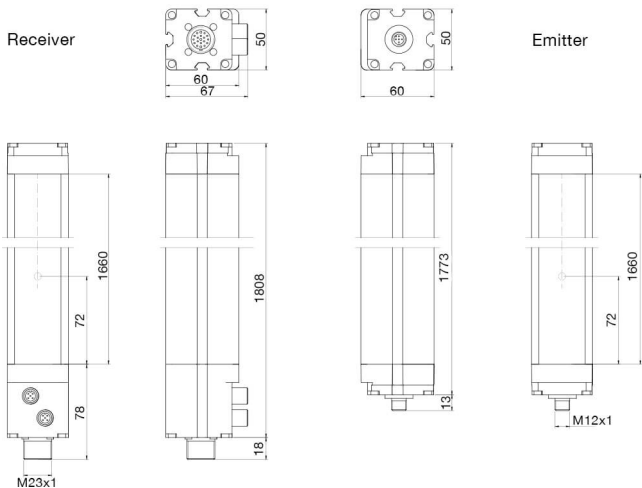


Indicative image



**LIGHT CURTAINS TYPE 4**

- Type 4 according IEC 61496-1 and IEC 61496-2
- Robust housing(50x60 mm) for applications in presence of heavy shocks and vibrations
- 40 mm resolution for hand protection and 2,3,4 beams for body protection/access control
- Operating distance up to 16 m(standard version) and up to 60 m (LONG RANGE version)
- Integrated functions: MANUAL/AUTOMATIC Restart, EDM and operating distance selectable
- Standard M12 5 poles connector on TX unit and M12 8 poles or M23 9 poles on RX unit



**Detection properties**

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | ≤ 16m   |
| Resolution               | 90mm    |
| controlled height        | 1660mm  |
| number of rays           | 23      |
| Effective Aperture Angle | ≤ ±2,5° |

**Application**

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Function Principle  | Emitter + Receiver                                             |
| Available functions | Manual/Automatic Restart, EDM, System Status, Muting 4 Sensors |

**Safety parameters**

|      |   |
|------|---|
| Type | 4 |
|------|---|

|       |          |
|-------|----------|
| SIL   | 3        |
| SILCL | 3        |
| PL    | e        |
| PFHd  | 1,41E-08 |
| Dcavg | 98,61%   |
| MTTFd | 100      |
| CFF   | 80%      |

#### Outputs

|               |                                 |
|---------------|---------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) |
| Response time | 14ms                            |

#### Electrical data

|                                    |                          |
|------------------------------------|--------------------------|
| Operating Voltage                  | 19,2 ... 28,8 Vcc        |
| Load current                       | 500mA                    |
| Time delay before availability     | 15s                      |
| Interference to external light     | According to IEC 61496-2 |
| Power Consumption - Receiver       | 6W                       |
| Power Consumption - Emitter        | 3W                       |
| Equivalent Resistive Load          | ≥ 48 Ω                   |
| Capacitive Load                    | ≥ 2 µF                   |
| Cabel Length (Power Supply/Output) | 100m                     |

#### Mechanical data

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Dimensions            | 50mm (front) x 60mm                                                    |
| Connections           | M12-5 poles (emitter) M23-19 poles (receiver) 2 x M12-5 poles (muting) |
| Operating temperature | 0°C...+55°C                                                            |
| Storage temperature   | -25°C...+70°C                                                          |
| humidity              | 95% (no condensation)                                                  |

#### Test/Approvals

|                       |                                   |
|-----------------------|-----------------------------------|
| Approvals             | CE, cULus, TÜV                    |
| EMC compatibility     | According to 2014/30/EU Directive |
| Shocks and vibrations | According to IEC 61496-1          |
| Degree of protection  | IP65                              |

#### Accessories

|                      |                |
|----------------------|----------------|
| Supplied Accessories | ST 202, ST 203 |
|----------------------|----------------|

#### Generical Data

|                       |                     |
|-----------------------|---------------------|
| Dimensions            | 50mm (front) x 60mm |
| Operating Temperature | 0°C...+55°C         |

Humidity

95% (no condensation)

Mechanical Protection

IP65

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## ELECTRICAL DIAGRAMS OF THE CONNECTIONS

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For the wiring diagram,  
consult the catalogue  
or manual.

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