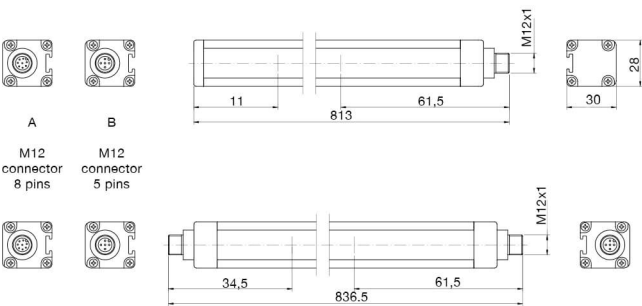




Indicative image



- LIGHT CURTAINS TYPE 4 ACCORDING TO IEC 61496-1 AND IEC 61496-2**
- Compact housing (28 x 30 mm) and no dead zone on cap side
  - Resolution 14 mm for finger protection, 20, 30 , 40 mm for hand protection, 50, 90 mm for presence control and 2, 3, 4 beams for body protection/access control
  - Controlled distance up to: 3, 4, 6, 10, 12 m
  - Base, Standard versions and Master, Slave version to connect up to 3 sets in cascade configuration
  - Selectable Automatic/Manual Restart and EDM integrated functions (Standard models)
  - Selectable controlled distance
  - IP69K protection models (LS4\_K) and models with integrated heating system to reach -25°C operating temperature (LS4\_H)
  - Standard M12 da 5 and 8 poles connectors



**Detection properties**

|                          |       |
|--------------------------|-------|
| Nominal sensing distance | ≤ 20m |
| Resolution               | 50mm  |
| controlled height        | 760mm |
| number of rays           | 20    |
| Effective Aperture Angle | ±5°   |

**Application**

|                    |                    |
|--------------------|--------------------|
| Function Principle | Emitter + Receiver |
|--------------------|--------------------|

|                     |                               |
|---------------------|-------------------------------|
| Available functions | Manual/Automatic Restart, EDM |
|---------------------|-------------------------------|

#### Safety parameters

|       |          |
|-------|----------|
| Type  | 4        |
| SIL   | 3        |
| SILCL | 3        |
| PL    | e        |
| PFHd  | 1,11E-08 |
| Dcavg | 95,20%   |
| MTTFd | 100      |
| CFF   | 80%      |

#### Outputs

|               |                                 |
|---------------|---------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) |
| Response time | 4,5ms                           |

#### Electrical data

|  |                          |
|--|--------------------------|
| Operating Voltage                              | 19,2 ... 28,8 Vcc        |
| Load current                                   | ≤ 400mA                  |
| Time delay before availability                 | 2s                       |
| Interference to external light                 | according to IEC 61496-2 |
| Power Consumption - Receiver                   | 2W (no load)             |
| Power Consumption - Emitter                    | 1W                       |
| Equivalent Resistive Load                      | ≥ 60 Ω                   |
| Capacitive Load                                | ≥ 0,82 µF                |
| Cabel Length (Power Supply/Output)             | ≤ 100m                   |
| Cable Length for Master Slave Interconnections | ≤ 50m                    |

#### Mechanical data

|                       |  |
|-----------------------|--|
| Dimensions            | 28mm (front) x 30mm                          |
| Connections           | M12-5 poles (emitter) M12-8 poles (receiver) |
| Operating temperature | -10°C ÷ +55°C (no condensation)              |
| Storage temperature   | -25°C ÷ +70°C (no condensation)              |
| 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, IP67                        |

Accessories

|                       |                                 |
|-----------------------|---------------------------------|
| Supplied Accessories  | ST 204 4S                       |
| Generical Data        |                                 |
| Dimensions            | 28mm (front)x 30mm              |
| Operating Temperature | -10°C ÷ +55°C (no condensation) |
| Humidity              | 95% (no condensation)           |
| Mechanical Protection | IP65, IP67                      |

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



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**date of printing**

29/04/2022 18:28:45