

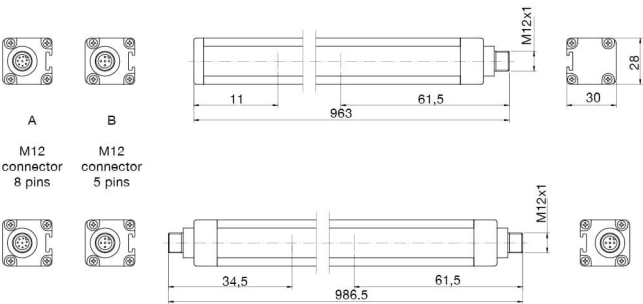


Indicative image



LIGHT CURTAINS TYPE 2 ACCORDING TO IEC 61496-1 AND 2

- Compact housing (28 x 30 mm) and no dead zone on cap side
- Resolution 30, 40, 50, 90 mm for hand protection and presence control and 2, 3, 4 beams for body protection/access control
- Controlled distance up to: 3, 4, 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 (LS2_K) and models with integrated heating system to reach -25°C operating temperature (LS2_H)
- Standard M12 da 5 and 8 poles connectors



Detection properties

| | |
|--------------------------|-------|
| Nominal sensing distance | ≤ 12m |
| Resolution | 50mm |
| controlled height | 910mm |
| number of rays | 24 |
| Effective Aperture Angle | ±5° |

Application

| | |
|--------------------|---|
| Function Principle | Emitter + Receiver (intermediate slave model) |
|--------------------|---|

Safety parameters

| | |
|-------|----------|
| Type | 2 |
| SIL | 1 |
| SILCL | 1 |
| PL | c |
| PFHd | 3,57E-08 |
| Dcavg | 92,50% |
| MTTFd | 100 |
| CFF | 80% |

Outputs

| | |
|----------------------------------|--|
| Output type | 2 x PNP-N0 (OSSD safety output) |
| Response time | 8ms |
| Response Time (Master + Slave) | $T=[0,1104*(T_{slave}+T_{master})+1,1044]*2$ |
| Response Time (Master + 2 Slave) | $T=[0,1104*(T_{slave1}+T_{slave2}+T_{master})+1,3228]*2$ |

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 | 2 x M12-5 poles (emitter) 2 x M12-5 poles (receiver) |
| Operating temperature | -10°C ÷ +55°C (no condensation) |
| Storage temperature | -25°C ÷ +70°C (no condensation) |
| humidity | 95% (no condensation) |

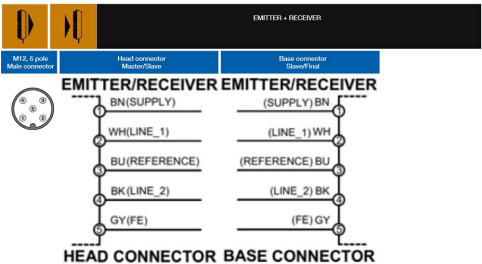
Test/Approvals

| | |
|-----------------------|-----------------------------------|
| 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 |

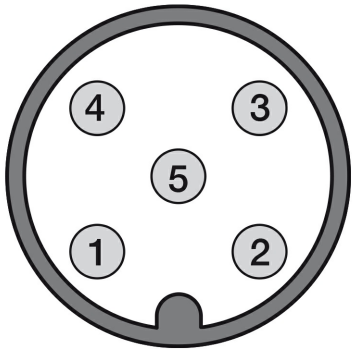
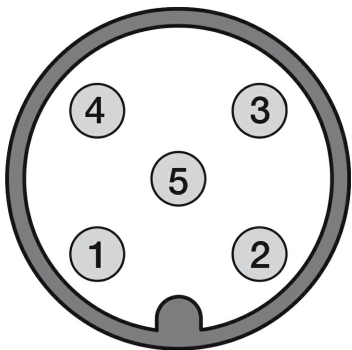
Accessories

| | |
|-----------------------|---------------------------------|
| 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



Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail info@datasensing.com

date of printing

29/04/2022 16:40:26