

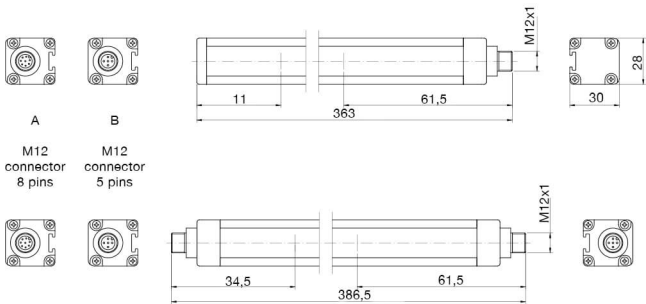


Indicative image



**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	310mm
number of rays	8
Effective Aperture Angle	±5°

**Application**

Function Principle	Emitter + Receiver (master model with selectable functions)
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Available functions	Manual/Automatic Restart, EDM
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#### Safety parameters

Type	2
SIL	1
SILCL	1
PL	c
PFHd	2,13E-08
Dcavg	94,00%
MTTFd	100
CFF	80%

#### Outputs

Output type	2 x PNP-NO (OSSD safety output)
Response time	4,5ms
Response Time (Master + Slave)	$T=[0,1104 \cdot (T_{slave}+T_{master})+1,1044] \cdot 2$
Response Time (Master + 2 Slave)	$T=[0,1104 \cdot (T_{slave1}+T_{slave2}+T_{master})+1,3228] \cdot 2$

#### 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) M18-8 poles + 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)

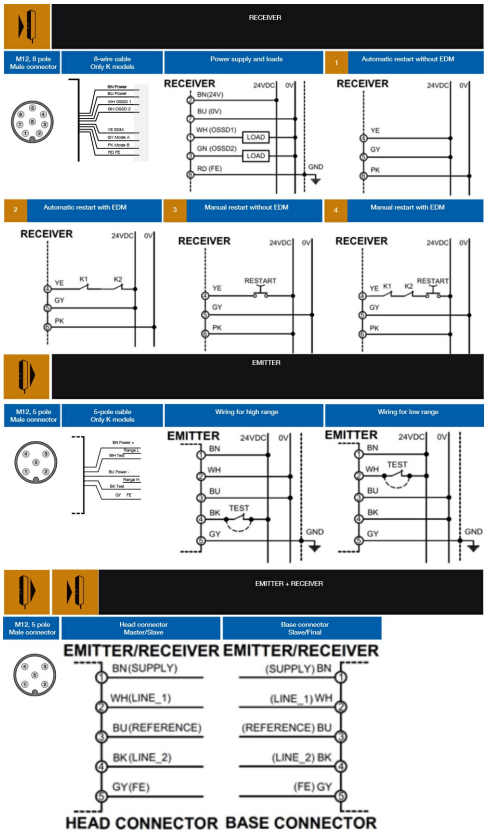
Humidity

95% (no condensation)

Mechanical Protection

IP65, IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



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