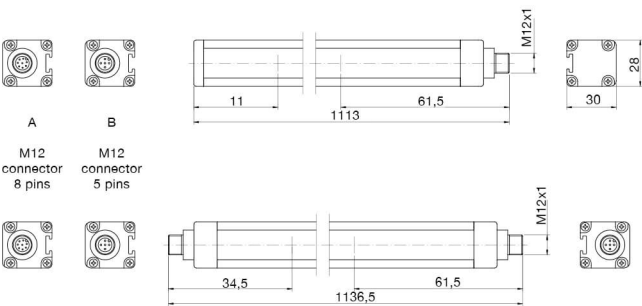




Indicative image



- 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	≤ 12m
Resolution	90mm
controlled height	1060mm
number of rays	12
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	4
SIL	3
SILCL	3
PL	e
PFHd	9,80E-08
Dcavg	96,90%
MTTFd	100
CFF	80%

Outputs

Output type	2 x PNP-N0 (OSSD safety output)
Response time	5ms
Response Time (Master + Slave)	$T=[0,11*(T_{slave}+T_{master})+0,9376]*2$
Response Time (Master + 2 Slave)	$T=[0,11*(T_{slave1}+T_{slave2}+T_{master})+1,0508]*2$

Electrical data

Operating Voltage	19,2 ... 28,8 Vcc
Load current	$\leq 400\text{mA}$
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	$\geq 60\ \Omega$
Capacitive Load	$\geq 0,82\ \mu\text{F}$
Cabel Length (Power Supply/Output)	$\leq 100\text{m}$
Cable Length for Master Slave Interconnections	$\leq 50\text{m}$

Mechanical data

Dimensions	28mm (front)x 30mm
Connections	2 x M12-5 poles (emitter) M12-8 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)

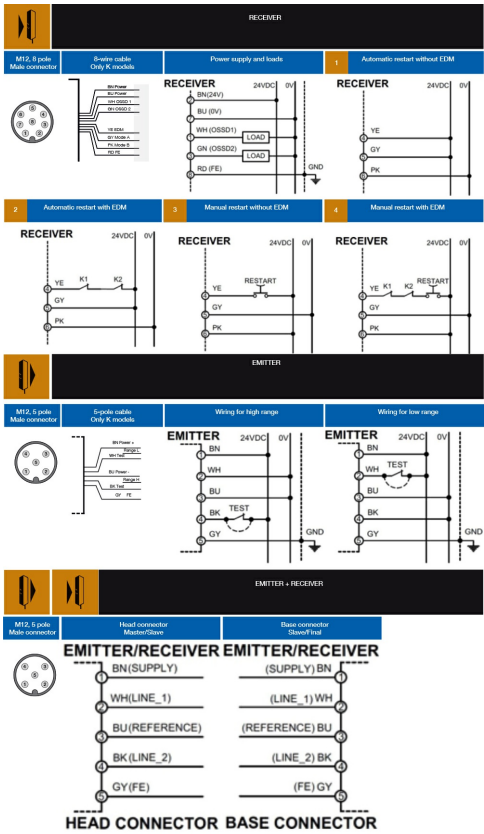
Humidity

95% (no condensation)

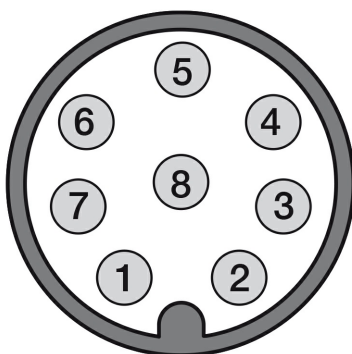
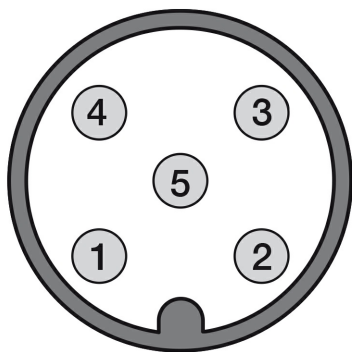
Mechanical Protection

IP65, IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



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