LS4ER/30-060S



LS4

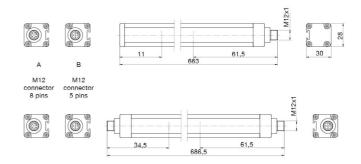


Indicative image



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	30mm
controlled height	610mm
number of rays	31
Effective Aperture Angle	±5°

Application

Function Principle

Safety parameters

Туре	4	
SIL	3	
SILCL	3	
PL	е	
PFHd	1,06E-08	
Dcavg	97,30%	
MTTFd	100	
CFF	80%	

Outputs

Output type	2 x PNP-NO (OSSD safety output)	
Response time	9ms	
Response Time (Master + Slave)	T=[0,11*(Tslave+Tmaster)+0,9376]*2	
Response Time (Master + 2 Slave)	T=[0,11*(Tslave1+Tslave2+Tmaster)+1,0508]*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	\geq 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

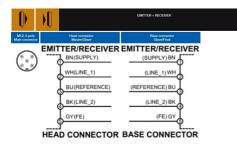
Supplied Accessories

ST 204 4S

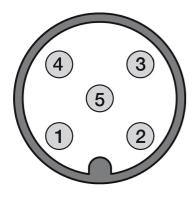
Generical Data

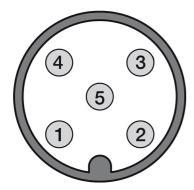
Dimensions	28mm (front) x 30mm
Operating Temperature	-10°C ÷ +55°C (no condensation)
Humidity	95% (no condensation)
Mechanical Protection	IP65, IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR





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