



LS4

LS4ER/30-030

Safety, T4-PLe 30mm h=310mm 12m, STD
LIGHT CURTAINS TYPE 4 ACCORDING TO IEC 61496-1 AND IEC 61496-2

OVERVIEW

- 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



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0...4 / 0...12 m
Resolution	30mm
controlled height	310mm

number of rays	16
Effective Aperture Angle	$\leq \pm 2,5^\circ$

Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	Compact standard
Functions	Hand prot. res. 30 mm

Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
PFHd	9,52E-09
Dcavg	
MTTFd	403,5 years
CFF	

Outputs

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

Electrical data

Operating Voltage	24 Vdc \pm 20%
Load current	\leq 400mA each output
Time delay before availability	2s
Interference to external light	according to IEC 61496-2
Power Consumption - Receiver	\leq 2W (no load)
Power Consumption - Emitter	\leq 1W
Equivalent Resistive Load	\geq 60 Ω
Capacitive Load	\geq 0,82 μ F
Cabel Length (Power Supply/Output)	\leq 100m
Cable Length for Master Slave Interconnections	\leq 50m

Mechanical data

Dimensions	28mm (front) x 30mm
Connections	M12-5 poles (emitter) M12-8 poles (receiver)
Operating temperature	-10°C \div +55°C (no condensation)
Storage temperature	-25...+ 70°C
humidity	95% (no condensation)
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN

60068-2-6)

Shocks

16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)

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

28x30x363 mm

Operating Temperature

-10 ... +55°C

Humidity

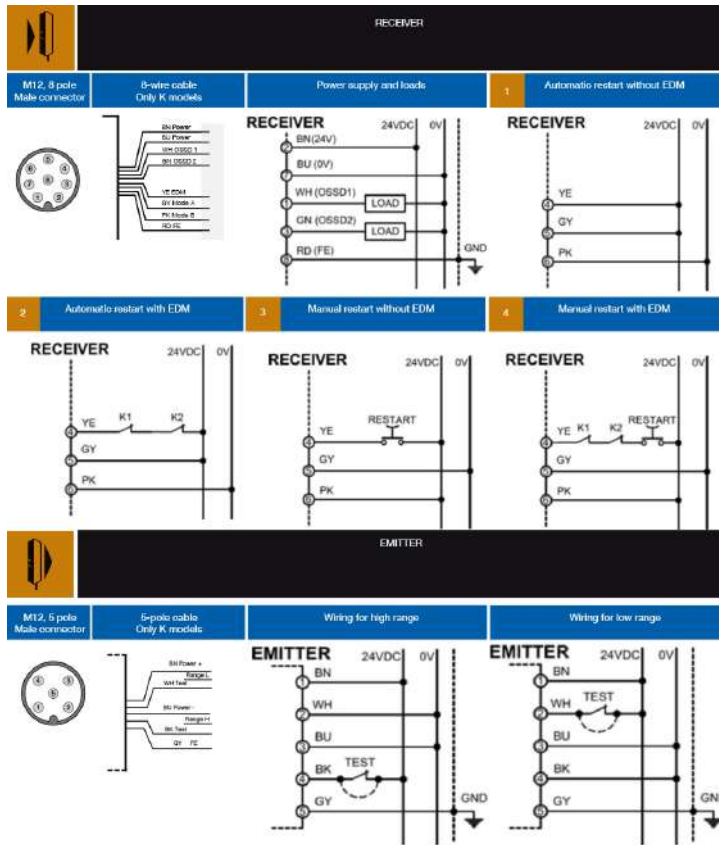
95% (no condensation)

Mechanical Protection

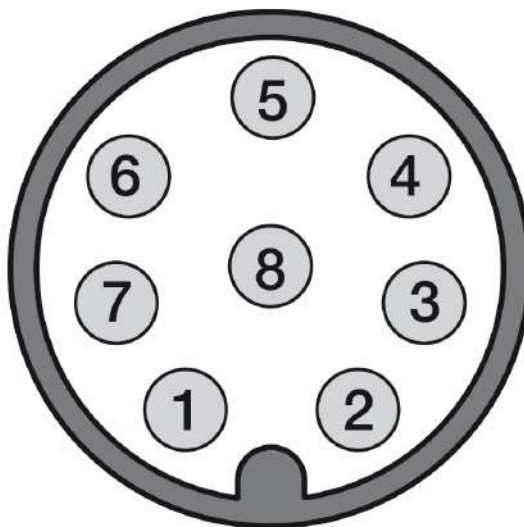
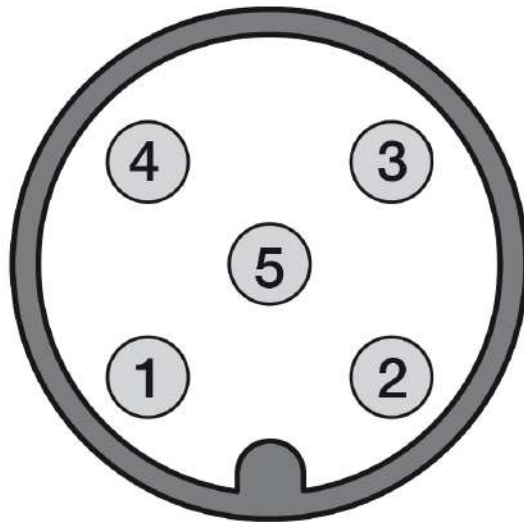
IP65, IP67

CONNECTIONS

Electrical diagram

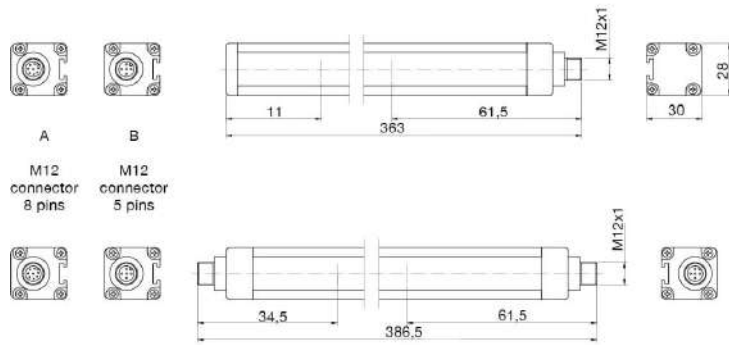


Connector



OTHERS

Dimensions



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S.r.l.**

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