



SLIM

957910420

SL4-24-0450-E

SLIM SAFETY LIGHT CURTAIN FOR FINGER AND HAND PROTECTION

OVERVIEW

- Highest mechanical flexibility for a perfect fit into machine structures
- Simple commissioning and maintenance
- High functional performance
- SLIM profile: 15 x 32 mm
- Pigtail cable with 5-pole M12 connectors
- Same cable for Emitter and Receiver
- No Dead Zone
- 14, 24 and 34 mm resolution
- 34 different protection lengths, with 30 mm modularity
- 3 different brackets shapes
- Cascadable up to 3 units
- Auto/Manual restart and EDM function configuration by wiring
- LED display messages diagnosis

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,2 ... 6 m
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Resolution	24mm
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controlled height	450 mm
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number of rays	24
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Sensitivity adjustment	n/a
Effective Aperture Angle	$\leq \pm 2,5^\circ$

Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	SLIM no-dead-zone cascadable
Functions	Hand protection res. 24 mm

Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
MTTFd	444 years

Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	8,7 ms
Response Time (Master + Slave)	18 ms
Response Time (Master + 2 Slave)	20 ms

Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
Load current	$\leq$ 500mA each output
Emission	Infrared LED (850 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	$\leq$ 4,2W (no load)
Power Consumption - Emitter	$\leq$ 1,6W
Cabel Length (Power Supply/Output)	$\leq$ 20m
Cable Length for Master Slave Interconnections	$\leq$ 1m (Master-Slave Cable)

Mechanical data

Dimensions	15x33x450
Material	Metal - Aluminium / PMMA / Painted Zamak
Connections	M12-5 poles pig-tail (emitter) M12-5 poles pig-tail (receiver)
Storage temperature	-25...+ 70°C
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

EMC compatibility	According to 2014/30/EU Directive
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Accessories

Supplied Accessories	C-shaped Brackets (included): 2 pcs kit + O-shaped Brackets (included): 4 pcs kit
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Generical Data

Dimensions	15,4x32,6x450 mm
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Operating Temperature	-10...+55°C
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Humidity	15 ... 95 % (no condensation)
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Mechanical Protection	IP65
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UNASSIGNED

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