Order Code: 1310769

Body Detection Safety Light Curtain with Automatic Restart



Safety level

Type 4 - PL e

Protected height (mm)

Resolution (mm)

50

Max. range (m)

12

Restart

**Automatic** 

**Functioning system** 

Emitter / Receiver

## **Technical Description**

Compact Safety Light Curtain: Type 4, SIL 3, SILCL 3, PL e, Cat. 4

Cross Section: 28 x 30 mm No blind area on one side

Hardware configuration: no programming necessary, easy to install and replace

Connection and configuration through M12 connectors

Unshielded cables up to 100 m can be used to connect the Safety Light Curtain

What's in the Box: Emitter, Receiver and Standard Fastening Brackets



#### **Features**

Safety level Type 4 - PL e  Protected height (mm)  Resolution (mm) 50  Controlled height (mm)  Max. range (m) 12  Restart Automatic  Functioning system Emitter / Receiver  Safety level (SIL / PL) Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C) - 30 55  Response time (ms) 14  Number of beams 52  Max. length of the connection 100  cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body  Protective enclosures None		
Resolution (mm) 50  Controlled height (mm)  Max. range (m) 12  Restart Automatic  Functioning system Emitter / Receiver  Safety level (SIL / PL) Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C) - 30 55  Response time (ms) 14  Number of beams 52  Max. length of the connection 100  cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Safety level	Type 4 - PL e
Controlled height (mm)  Max. range (m)  12  Restart  Automatic  Functioning system  Emitter / Receiver  Safety level (SIL / PL)  Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C)  - 30 55  Response time (ms)  14  Number of beams  52  Max. length of the connection  cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  MTTFD (ISO13849) years  MTTFD (ISO13849) years  182,8  PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Protected height (mm)	
Max. range (m)  Restart  Automatic  Functioning system  Emitter / Receiver  Safety level (SIL / PL)  Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C)  Response time (ms)  14  Number of beams  52  Max. length of the connection cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  MTTFD (ISO13849) years  MTFD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Resolution (mm)	50
Restart Automatic  Functioning system Emitter / Receiver  Safety level (SIL / PL) Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C) - 30 55  Response time (ms) 14  Number of beams 52  Max. length of the connection 100  cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Controlled height (mm)	
Functioning system  Emitter / Receiver  Safety level (SIL / PL)  Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C)  - 30 55  Response time (ms)  14  Number of beams  52  Max. length of the connection  cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  M12 5-pole connectors  MTTFD (ISO13849) years  MTTFD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Max. range (m)	12
Safety level (SIL / PL)  Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4  Operating temperature (°C)  - 30 55  Response time (ms)  14  Number of beams  52  Max. length of the connection  cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  MTTFD (ISO13849) years  MTTFD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  With external module  Detection  Body	Restart	Automatic
Operating temperature (°C) - 30 55  Response time (ms) 14  Number of beams 52  Max. length of the connection 100  cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Functioning system	Emitter / Receiver
Response time (ms)  Number of beams  52  Max. length of the connection  cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  M12 5-pole connectors  MTTFD (ISO13849) years  182,8  PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Safety level (SIL / PL)	Type 4 - SIL 3 - SILCL 3 - PL e - Cat. 4
Number of beams  52  Max. length of the connection cables (m)  Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  M12 5-pole connectors  MTTFD (ISO13849) years  182,8  PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Operating temperature (°C)	- 30 55
Max. length of the connection cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Response time (ms)	14
cables (m)  Signalling LEDs for light curtain's status and diagnostics  Safety output type 2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Number of beams	52
Signalling  LEDs for light curtain's status and diagnostics  Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  M12 5-pole connectors  MTTFD (ISO13849) years  182,8  PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Max. length of the connection	100
Safety output type  2 fail-safe PNP (400 mA at 24 VDC) with protection against short circuit, overload and reverse polarity  Connections  M12 5-pole connectors  MTTFD (ISO13849) years  182,8  PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	cables (m)	
short circuit, overload and reverse polarity  Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Signalling	LEDs for light curtain's status and diagnostics
Connections M12 5-pole connectors  MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	Safety output type	2 fail-safe PNP (400 mA at 24 VDC) with protection against
MTTFD (ISO13849) years 182,8  PFHD (IEC 61508) 1,57E-08  Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body		short circuit, overload and reverse polarity
PFHD (IEC 61508)  1,57E-08  Safety outputs  2 OSSD PNP (400 mA at 24 VDC)  Safety functions  With external module  Detection  Body	Connections	M12 5-pole connectors
Safety outputs 2 OSSD PNP (400 mA at 24 VDC)  Safety functions With external module  Detection Body	MTTFD (ISO13849) years	182,8
Safety functions  With external module  Detection  Body	PFHD (IEC 61508)	1,57E-08
Detection Body	Safety outputs	2 OSSD PNP (400 mA at 24 VDC)
	Safety functions	With external module
Protective enclosures None	Detection	Body
	Protective enclosures	None



Packaging dimensions HxLxW 145 x 2070 x 200

(mm)

Product class C

Custom tariff 85365019

### **Electrical data**

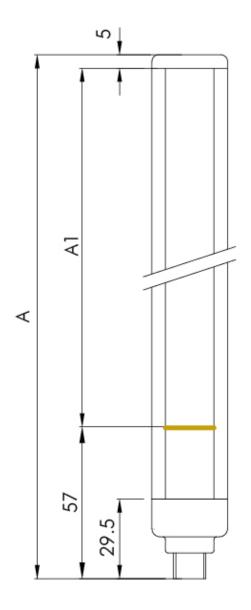
Power supply (VDC)  $24 \pm 20\%$ 

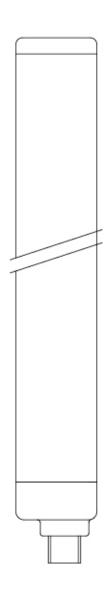
### **Mechanical data**

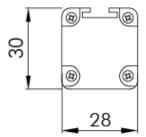
Overall height (mm)	2013
Cross section dimensions (mm)	28 x 30
Degree of protection	IP65 - IP67
Fastening	Back slot with set of LE type brackets (included) or to the top
	and lower end with swivel brackets SFB E (optional)
Gross weight (g)	5991,26



# **Technical drawings**









## **Certificates**

















