

Safety light curtains  
type 4 and type 2

**Preventa XU**

*Stop* Danger!



# Safety light curtains **XUS L**

## *Simply Smart!*

Leveraging  
**ingenuity**  
and intelligence  
for **ease of use**

## A *comprehensive* range offering maximum *flexibility*

The light curtains enable, whilst still protecting machine operators, full or partial access into the hazardous zone during machine loading/unloading phases and likewise, for adjustment and maintenance operations.

These light curtains advantageously eliminate the closure of mechanical devices anywhere where the risk of projections, objects shattering or other hazards do not endanger the operators.

The light curtains meet the requirements of the applicable standards: type 4 and type 2 ESPE conforming to IEC 61496-1 and IEC 61496-2.



### **XUS LT** Type 4 multi-beam, Compact range for finger and hand protection

- Dimensions: 35 x 50 mm
- Detection: fingers (14 mm) and hands (30 mm)
- Detection distance: fingers 7.5 m and hands 9 m (20 m on request)
- Heights protected: fingers 260 to 1390 mm, hands 350 to 2095 mm
- LEDs to assist alignment of each light beam
- 2 PNP safety outputs
- 1 PNP or NPN alarm output
- Flying leads with M12 connector
- Integrated functions:
  - blanking (ECS/B)
  - floating blanking (FB)
  - external device monitoring (EDM)
  - test input (MTS)

NEW



### **XUS LM** Type 4 multi-beam, Slim range for finger and hand protection

- Monitoring module (XPS LCB) included
- Dimensions: 28 x 30 mm
- Detection: fingers (14 mm) and hands (30 mm)
- Detection distance: fingers 4.5 m and hands 7 and 14 m
- Heights protected: fingers and hands 150 to 1800 mm
- LEDs to assist alignment of each light beam
- 2 PNP safety outputs
- 2 alarm or auxiliary (recopying) PNP and NPN outputs
- Flying leads with M12 connector
- Integrated functions:
  - blanking (ECS/B)
  - floating blanking (FB)
  - external device monitoring (EDM)



## XUS LN Type 2

multi-beam, Compact range  
for hand protection

- Dimensions: 31 x 32 mm
- Detection: hands (30 mm)
- Detection distance: 0.3 to 15 m
- Heights protected: 150 to 1500 mm
- 2 alignment assistance LEDs
- 2 PNP safety outputs
- Connection with M12 connectors
- Integrated functions:
  - external device monitoring (EDM/MPCE)
  - muting via external module

## XUS LP Type 4

single beam and multi-beam,  
Compact range for body protection

- Dimensions: 52 x 55 mm
- Detection: body (1 to 6 light beams)
- Detection distance: 0.8 to 20 m or 0.8 à 70 m (depending on configuration), 0.8 to 8 m with passive receiver
- Heights protected: 750 to 1800 mm and single beam
- LEDs to assist alignment of each light beam
- 2 PNP safety outputs
- 1 PNP alarm output
- Connection with M12 connectors or screw terminals
- Integrated functions:
  - external device monitoring (EDM)
  - test input (MTS)
  - muting via external module

## Accessoires for light curtains

- 90° mirror adaptors, glass or stainless steel,
- Lexan protective cover (except XUS LN),
- IP67 protection tube (XUS LT),
- Anti-vibration kit,
- Pre-wired connectors and jumper cables,
- Muting and monitoring modules for 1 or 2 light curtains,
- Monitoring module for 2 to 4 light curtains.
- Fixing bases for light curtains XUS L• and mirrors.



## XU2 S + XPS CM Type 2

multi-beam (1 to 4 sensors),  
for body protection

- Dimensions: diameter 18 mm sensors and 45 mm wide module
- Body protection using 1 to 4 light beams (4 sensors maximum)
- Detection distance: 8 m
- Heights protected: up to 1200 mm using 4 sensors
- Alignment assistance LEDs
- 2 NO safety outputs
- 4 additional PNP outputs
- 1 "muting" signalling output
- Connection with M12 connectors (Sensors) and Screw terminals (module)
- Built-in muting function

Range	Type 4 Compact XUS LT	
Protection for...	Fingers	Hands
Nominal sensing distance (Sn)	0.3...7.5 m	0.3...9 m
Detection capacity	14 mm	30 mm
Number of safety/auxiliary circuits	2 solid-state PNP/1 solid-state PNP (alarm or recopy)	
Response time (depending on model)	20...40 ms	20...30 ms
Connection	0.25 m flying leads with M12 connector	
Height protected	Ref.	Ref.
260 mm	XUSLTQ6A0260	-
350 mm	XUSLTQ6A0350	XUSLTR5A0350
435 mm	XUSLTQ6A0435	-
520 mm	XUSLTQ6A0520	XUSLTR5A0520
610 mm	XUSLTQ6A0610	-
700 mm	XUSLTQ6A0700	XUSLTR5A0700
870 mm	XUSLTQ6A0870	XUSLTR5A0870
955 mm	XUSLTQ6A0955	-
1045 mm	XUSLTQ6A1045	XUSLTR5A1045
1130 mm	XUSLTQ6A1130	-
1215 mm	XUSLTQ6A1215	XUSLTR5A1215
1390 mm	XUSLTQ6A1390	XUSLTR5A1390
1570 mm	-	XUSLTR5A1570
1745 mm	-	XUSLTR5A1745
1920 mm	-	XUSLTR5A1920
2095 mm	-	XUSLTR5A2095

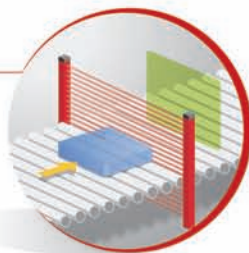
## Simple to install

Transmitter-receiver alignment simplified using red LED indicators for each light beam (an LED indicator on the receiver indicates whether its respective light beam is misaligned and the light curtain is adjusted until all the LEDs are off).



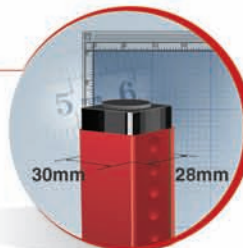
## Complete

Integration of fixed blanking, floating blanking, external device monitoring (EDM), test input (MTS) and light beam coding functions (depending on model).



## Compact

Compact design light curtains, especially for the Slim range (28 x 30 mm).



## Quick to connect

Safety and simplicity of connection using M12 connectors and M12 connectors on flying leads with locating device to ensure correct connection.



## Software to assist selection

Design of a light curtain application simplified using "Protect Area Design" software. This software also incorporates safety mat applications.



### Type 4 Compact XUS LP

Body			
0.8...20 ou 70 m			
Single beam and multi-beam		0.8 ...8 m	
2 solid-state PNP/1 solid-state PNP (alarm or recopy)			
16...24 ms			
M12 connectors (1)		Connecteurs M12	
Detection capacity	No. of beams	Ref.	Passive receiver
-	1	XUSLPZ1AM	-
300 mm	4	XUSLPZ4A0300M	-
	5	XUSLPZ5A0300M	-
	6	XUSLPZ6A0300M	-
400 mm	3	XUSLPZ3A0400M	-
500 mm	2	XUSLPZ2A0500M	XUSLPB2A0500M
	3	XUSLPZ3A0500M	-
600 mm	2	XUSLPZ2A0600M	XUSLPB2A0600M

(1) Light curtains with M12 connector. For terminal block connections, replace the letter **M** at the end of the reference by **B**, example: XUSLPZ1AM becomes XUSLPZ1AB

(2) For references of Type 2 light curtains XU2 S + XPS CM, refer to [www.telemecanique.com](http://www.telemecanique.com)

(3) Light curtains with manual start. For automatic start, replace the letter **D** in the reference by **C**, example: XUSLNG5D0150 becomes XUSLNG5C0150

### Type 4 Slim XUS LM

Fingers		Hands	
0.3...4,5 m		0.3...7 m	
14 mm		30 mm	
2 solid-state PNP/1 solid-state PNP and NPN (alarm or recopy)			
7...24 ms		7...15 ms	
0.25 m flying leads with M12 connector		M12 connectors	
Ref.	Ref.	Ref. (3)	Height protected
XUSLMN6X0150	XUSLMP5X0150	XUSLNG5D0150	150 mm
XUSLMN6X0300	XUSLMP5X0300	XUSLNG5D0300	300 mm
XUSLMN6X0450	XUSLMP5X0450	XUSLNG5D0450	450 mm
XUSLMN6X0650	XUSLMP5X0650	XUSLNG5D0650	600 mm
XUSLMN6X0750	XUSLMP5X0750	XUSLNG5D0750	750 mm
XUSLMN6X0900	XUSLMP5X0900	XUSLNG5D0900	900 mm
XUSLMN6X1050	XUSLMP5X1050	XUSLNG5D1050	1050 mm
XUSLMN6X1200	XUSLMP5X1200	XUSLNG5D1200	1200 mm
XUSLMN6X1350	XUSLMP5X1350	XUSLNG5D1350	1350 mm
XUSLMN6X1500	XUSLMP5X1500	XUSLNG5D1500	1500 mm
XUSLMN6X1650	XUSLMP5X1650		1650 mm
XUSLMN6X1800	XUSLMP5X1800		1800 mm

### Type 2 (2) Compact XUS LN

Hands	
0.3...15 m	
30 mm	
2 solid-state PNP	
14...24 ms	
M12 connectors	
Ref. (3)	Height protected
XUSLNG5D0150	150 mm
XUSLNG5D0300	300 mm
XUSLNG5D0450	450 mm
XUSLNG5D0650	600 mm
XUSLNG5D0750	750 mm
XUSLNG5D0900	900 mm
XUSLNG5D1050	1050 mm
XUSLNG5D1200	1200 mm
XUSLNG5D1350	1350 mm
XUSLNG5D1500	1500 mm
	1650 mm
	1800 mm





## Protect Area Design

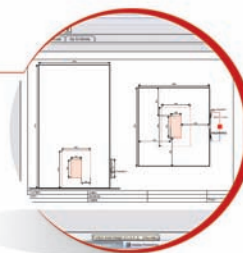
Software to assist selection that also includes safety mats XY2 TP

Protect Area Design software is a configurator that enables selection of the type of safety detection system (light curtains, sensing mats), depending on the application. This software enables the user, via a graphic interface, to create or modify a safe working environment within the vicinity of a potentially dangerous machine.

Having established the predefined fields (selection of control system category, dimensions of the machine), the Protect Area Design software, depending on the reaction time parameters (machine and protection system) and the approach typology, calculates the safety distance and displays the optimal safety detection solution. A list of product references, quantities and accessories to be used is also created.



Protect Area Design software is user-friendly and compatible with Windows 98, NT, 2000 and XP. It is available using product reference SISCD104200, downloadable from our Internet site and included in the Schneider Electric electronic catalogue.



## Protect Area Design

is integrated in **SafetySuite V1**

See page 6



# SafetySuite V1

SafetySuite V1 software incorporates 4 software applications for machine safety

■ **Protect Area Design**

Safety light curtain and sensing mat configuration software.

■ **ASI SWIN**

AS-Interface safety monitor configuration software.

■ **XPS MCWIN**

XPS MC safety controllers configuration software.

■ **XPS MFWIN**

XPS MF safety PLCs programming software.

There are 4 versions of SafetySuite V1 available to suit your particular needs:

■ **SafetySuite V1** comprising Protect Area Design (full version) and demo versions of the 3 other software applications.  
Reference:: **SISCD104200**

■ **SafetySuite V1** comprising Protect Area Design and ASI SWIN (full versions) and demo versions of the 2 other software applications.  
Reference: **ASISWIN2**

■ **SafetySuite V1** comprising Protect Area Design, ASI SWIN and XPS MCWIN (full versions) and demo version of XPS MFWIN.  
Reference: **XPSMCWIN**

■ **SafetySuite V1** comprising Protect Area Design, ASI SWIN, XPS MCWIN and XPS MFWIN (full versions).  
Reference: **SSV1XPSMFWIN**

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