

Safety detection solutions Preventa

Safety light curtains, type 4
Light curtains Optimum XUS LB and
Universal XUS LDM with solid-state output

Light curtain type			XUS LBQ6A●●●● XUS LDMQ6A●●●● (14 mm)	XUS LBR5A●●●● (30 mm)	XUS LDMY5A●●●●● (30 mm)
Environment characteristics					
Conformity to standards			ANSI/RIA R15.06, ANSI B11:19-1990, OSHA 1910.217(C), OSHA 1910.212, EN/IEC 61496-1 and EN/IEC 61496-2 and IEC 61508-1, 2 (Type 4 ESPE)		
Certifications			CE, TUV, UL, CSA		
European directives			Machinery directive 98/37/EC, Work equipment directive 89/655/EEC and EMC directive 89/336 EEC ROHS directive 2002/95/EC		
Ambient air temperature	Operating	°C	- 10...+ 55		
	For storage	°C	- 25...+ 75		
Relative humidity			95% maximum, without condensation		
Degree of protection			IP 65		
Shock and vibration resistance	Conforming to IEC 61496-1		Shock resistance: 10 gn, impulse 16 ms Vibration resistance: 10...55 Hz, amplitude: 0.35 ± 0.05 mm		
Materials			Casing: aluminium with electrostatically applied red (RAL 3000) polyester paint finish; end caps: 20% fibreglass impregnated polycarbonate.		
Fixings			End brackets (included)		
Optical characteristics					
Minimum detection capacity		mm	14 (finger)	30 (hand)	
Nominal sensing distance (Sn)		m	0.3...7 or 3 m with PDM (1)	0.3...8 or 20 m with PDM (1)	0.3...20 or 8 m with PDM (1)
Height protected		mm	280...1360	320...2120	
Effective aperture angle (EAA)			2.5° at 3 m (3° when used with IP 67 protection tube)		
Light source			GaAIAs LED, 880 nm		
Immunity to ambient light			Conforming to IEC/EN 61496-2		
Electrical characteristics					
Response time		ms	23...41	23...32	
Power supply			--- 24 V ± 20% 2 A conforming to EN/IEC 61496 and EN/IEC 60204-1		
	Transmitter	mA	285		
	Receiver	A	1.8 (with maximum load)		
Maximum current consumption (no-load)	Transmitter	mA	285		
	Receiver	mA	450		
Immunity to interference			Conforming to EN 61496-1		
Safety outputs OSSD (Output Signal Switching Devices)			2 solid-state PNP (N/O) outputs ≤ 625 mA, --- 24 V (Short-circuit protected)		
Auxiliary output			1 solid-state output 100 mA, --- 24 V, PNP or NPN (depending on model)		
Monitoring activation of output switching devices (MPCE/EDM)			50 mA, --- 24 V and start/restart 10 mA		
Signalling	Transmitter		1 LED (power supply)		
	Receiver		4 LEDs (stop, run, interlock, ECS/B Blanking or FB Floating Blanking)		
Connections (2)					
Light curtains	Transmitter		M12, 5-pin, female connector		
	Receiver		M12, 8-pin, female connector		
Segments XUS LDS	Transmitter/Receiver		M12, 4-pin, female connector on flying lead		
XPS LCM1	Receiver		M12, 4-pin, female connector		
Pre-wired connectors c.s.a.	Transmitter/Receiver	mm²	0.32 conductors with M12, 5-pin, male connector		
	Receiver	mm²	0.32 conductors with M12, 8-pin, male connector		
Jumper cables c.s.a.	Transmitter/receiver	mm²	0.32 conductors with M12, 4-pin, male/female connectors		
Cable resistance of pre-wired connectors	Transmitter/receiver	Ω	0.055 per metre for 0.32 mm² conductors		
Cable lengths		m	Pre-wired connectors with cable lengths of 5, 10, 15 and 30 m are available separately. The maximum cable length is 60 m, depending on the load current and power supply.		

(1) PDM: Programming and Diagnostic Module, available as option, see page 30314/8.

(2) Pre-wired connectors to be ordered separately, see page 30314/8.

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Light curtains Optimum XUS LB and

Universal XUS LDM with solid-state output

Light curtain type		XUS LB●●●●●●	XUS LDM●●●●●●
Functions			
Functions	Accessible by cabling alone (1)	☐ Automatic start ☐ Auxiliary output (PNP, status signalling) ☐ Test (MTS: Monitoring Test Signal) ☐ Alignment aid by display of each light beam broken ☐ LED display of operating modes and faults	
	Accessible via programming and diagnostic module	☐ Auto/Manual ☐ Monitoring of external switching devices (EDM: External Device Monitoring) ☐ Light beam coding (A or B) ☐ Sensing distance (short, long) ☐ Programming and downloading of configuration settings, via programming and diagnostic module (PDM) ☐ Display of operating modes and faults by LED and/or PDM (2)	☐ Auto/Manual, manual 1st cycle ☐ Monitoring of external switching devices (EDM: External Device Monitoring) ☐ Blanking (ECS/B) ☐ Monitored Blanking ☐ Floating Blanking (FB) ☐ Reduction of resolution ☐ Response time (normal, slow) ☐ Light beam coding (A or B) ☐ Sensing distance (short, long) ☐ Auxiliary output (alarm or status signalling, PNP or NPN) ☐ Start button (N/O or N/C, 0 V or 24 V) ☐ Muting (see page 30315/2) ☐ Cascadable versions with up to 4 segments total (256 light beams max., modular finger/hand) using segments XUS LDS ☐ Programming and downloading of configuration settings, via programming and diagnostic module (PDM) ☐ Display of operating modes and faults by LED and/or PDM (2)
Monitoring of external switching devices (EDM = External Device Monitoring)		Monitoring of the function (open or closed) as well as the response time of the power components.	
"Test" function		Instigates the stop instruction of the light curtain by opening the contact (simulated intrusion)	
"Muting" function (inhibition)		☐ With external module XPS LCM1150	☐ Integrated when using connection box XPS LCM1 for connecting sensors and "muting" indicator light ☐ or with module XPS LCM1150

(1) Not requiring use of PDM.

(2) PDM: Programming and Diagnostic Module, available as option, see page 30314/8.

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Safety light curtains, type 4

Light curtains Optimum XUS LB with solid-state output



XUS LBQ6A●●●●



XUS LBR5A●●●●

★ Products available in stock

Transmitter-receiver pairs for finger protection (1)

Detection capacity 14 mm. Sensing distance 0.3 to 7 m (or 3 m with PDM).

■ 2 PNP safety outputs

Height protected	Response time	Number of light beams	Auxiliary output	Reference (2)	Weight
mm	ms				kg
280	23	24	PNP	XUS LBQ6A0280 ★	1.790
320	23	32	PNP	XUS LBQ6A0320	1.970
360	23	36	PNP	XUS LBQ6A0360 ★	2.150
440	23	44	PNP	XUS LBQ6A0440 ★	2.500
520	23	52	PNP	XUS LBQ6A0520 ★	2.870
600	23	60	PNP	XUS LBQ6A0600 ★	3.220
720	32	72	PNP	XUS LBQ6A0720 ★	3.760
760	32	76	PNP	XUS LBQ6A0760	3.940
880	32	88	PNP	XUS LBQ6A0880 ★	4.470
920	32	92	PNP	XUS LBQ6A0920	4.650
960	32	96	PNP	XUS LBQ6A0960	4.830
1040	32	104	PNP	XUS LBQ6A1040	5.190
1120	32	112	PNP	XUS LBQ6A1120	5.540
1200	32	120	PNP	XUS LBQ6A1200	5.900
1360	41	136	PNP	XUS LBQ6A1360	6.180

Transmitter-receiver pairs for hand protection (1)

Detection capacity 30 mm. Sensing distance 0.3 to 8 m (or 20 m with PDM).

■ 2 PNP safety outputs

Height protected	Response time	Number of light beams	Auxiliary output	Reference (2)	Weight
mm	ms				kg
320	23	16	PNP	XUS LBR5A0320	1.970
360	23	18	PNP	XUS LBR5A0360 ★	2.150
440	23	22	PNP	XUS LBR5A0440	2.500
520	23	26	PNP	XUS LBR5A0520 ★	2.870
600	23	30	PNP	XUS LBR5A0600	3.220
680	23	34	PNP	XUS LBR5A0680 ★	3.580
760	23	38	PNP	XUS LBR5A0760	3.940
880	23	44	PNP	XUS LBR5A0880 ★	4.470
920	23	46	PNP	XUS LBR5A0920	4.650
1040	23	52	PNP	XUS LBR5A1040 ★	5.190
1200	23	60	PNP	XUS LBR5A1200 ★	5.900
1360	23	68	PNP	XUS LBR5A1360	6.620
1400	23	70	PNP	XUS LBR5A1400 ★	6.800
1520	32	76	PNP	XUS LBR5A1520	7.330
1560	32	78	PNP	XUS LBR5A1560 ★	7.500
1640	32	82	PNP	XUS LBR5A1640	7.870
1720	32	86	PNP	XUS LBR5A1720	8.230
1800	32	88	PNP	XUS LBR5A1800	8.590
1920	32	96	PNP	XUS LBR5A1920	9.120
2120	32	106	PNP	XUS LBR5A2120	10.020

(1) Supplied with a test rod, 2 sets of 2 brackets with fixings, user guide with certificate of conformity on CD-ROM and 1 arc suppressor set.

Programming and Diagnostic Module (if required) and pre-wired connectors to be ordered separately, see page 30314/8.

(2) To order a receiver only, add the letter **R** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LBR5A0320 becomes **XUS LBR5A0320R** for the receiver only.

To order a transmitter only, add the letter **T** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LBR5A0320 becomes **XUS LBR5A0320T** for the transmitter only.

Other versions

Combining type 4 safety light curtains with external module for muting function.
See pages 30311/2 to 30311/7.

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Safety light curtains, type 4

Light curtains Universal XUS LDM with solid-state output



XUS LDMQ●●●●



XUS LDMY●●●●

★ Products available in stock

Transmitter-receiver pairs for finger protection (1)

Detection capacity 14 mm. Sensing distance 0.3 to 7 m (or 3 m with PDM).

■ 2 PNP safety outputs

Height protected	Response time		Number of light beams	Auxiliary output	Reference (2)	Weight
	Normal	Slow				
mm	ms	ms				kg
280	23	38	24	PNP/NPN	XUS LDMQ6A0280 ★	1.790
320	23	38	32	PNP/NPN	XUS LDMQ6A0320 ★	1.970
360	23	38	36	PNP/NPN	XUS LDMQ6A0360	2.150
440	23	38	44	PNP/NPN	XUS LDMQ6A0440 ★	2.500
520	23	38	52	PNP/NPN	XUS LDMQ6A0520 ★	2.900
600	23	38	60	PNP/NPN	XUS LDMQ6A0600 ★	3.220
720	32	53	72	PNP/NPN	XUS LDMQ6A0720 ★	3.760
760	32	53	76	PNP/NPN	XUS LDMQ6A0760	3.940
880	32	53	88	PNP/NPN	XUS LDMQ6A0880 ★	4.470
920	32	53	92	PNP/NPN	XUS LDMQ6A0920	4.650
960	32	53	96	PNP/NPN	XUS LDMQ6A0960	4.830
1040	32	53	104	PNP/NPN	XUS LDMQ6A1040	5.190
1120	32	53	112	PNP/NPN	XUS LDMQ6A1120	5.540
1200	32	53	120	PNP/NPN	XUS LDMQ6A1200	5.900
1360	41	68	136	PNP/NPN	XUS LDMQ6A1360	6.620

Transmitter-receiver pairs for hand protection (1)

Detection capacity 30 mm. Sensing distance 0.3 to 20 m (or 8 m with PDM).

■ 2 PNP safety outputs

Height protected	Response time		Number of light beams	Auxiliary output	Reference (2)	Weight
	Normal	Slow				
mm	ms	ms				kg
320	23	38	16	PNP/NPN	XUS LDMY5A0320	1.970
360	23	38	18	PNP/NPN	XUS LDMY5A0360 ★	2.150
440	23	38	22	PNP/NPN	XUS LDMY5A0440	2.500
520	23	38	26	PNP/NPN	XUS LDMY5A0520 ★	2.870
600	23	38	30	PNP/NPN	XUS LDMY5A0600	3.220
680	23	38	34	PNP/NPN	XUS LDMY5A0680 ★	3.580
760	23	38	38	PNP/NPN	XUS LDMY5A0760	3.940
880	23	38	44	PNP/NPN	XUS LDMY5A0880 ★	4.470
920	23	38	46	PNP/NPN	XUS LDMY5A0920	4.650
1040	23	38	52	PNP/NPN	XUS LDMY5A1040 ★	5.190
1200	23	38	60	PNP/NPN	XUS LDMY5A1200	5.900
1360	23	38	68	PNP/NPN	XUS LDMY5A1360	6.620
1400	23	38	70	PNP/NPN	XUS LDMY5A1400 ★	6.800
1520	32	53	76	PNP/NPN	XUS LDMY5A1520	7.330
1560	32	53	78	PNP/NPN	XUS LDMY5A1560 ★	7.500
1640	32	53	82	PNP/NPN	XUS LDMY5A1640	7.870
1720	32	53	86	PNP/NPN	XUS LDMY5A1720	8.230
1800	32	53	88	PNP/NPN	XUS LDMY5A1800	8.590
1920	32	53	96	PNP/NPN	XUS LDMY5A1920	9.120
2120	32	53	106	PNP/NPN	XUS LDMY5A2120	10.020

(1) Supplied with a test rod, 2 sets of 2 brackets with fixings, user guide with certificate of conformity on CD-ROM and 1 arc suppressor set.

Programming and Diagnostic Module (if required) and pre-wired connectors to be ordered separately, see page 30314/8.

(2) To order a receiver only, add the letter **R** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LDMY5A0320 becomes **XUS LDMY5A0320R** for the receiver only.

To order a transmitter only, add the letter **T** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LDMY5A0320 becomes **XUS LDMY5A0320T** for the transmitter only.

Other versions

Combining type 4 safety light curtains with external module for muting function.
See pages 30311/2 to 30311/7.

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Safety light curtains, type 4

Segments XUS LDS for Universal XUS LDM light curtains



XUS LDM + XUS LDS

Barrières Universel XUS LDM version cascadables

Cascadable versions with up to 4 segments total (256 light beams max., modular finger/hand) using segments XUS LDS

Configuration of segments XUS LDS

Two segments

Number of light beams	Response time
	ms
0 to 65	23
66 to 120	32
121 to 174	41
175 to 229	50
230 to 256	59

Three segments

Number of light beams	Response time
	ms
0 to 59	23
60 to 114	32
115 to 168	41
169 to 223	50
224 to 256	59

Four segments

Number of light beams	Response time
	ms
0 to 53	23
54 to 108	32
109 to 162	41
163 to 217	50
218 to 256	59

Safety detection solutions

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Safety light curtains, type 4

Segments XUS LDS for Universal XUS LDM light curtains



XUS LDSQ6A●●●●

Transmitter-receiver pairs for finger protection (1)

Detection capacity 14 mm. Sensing distance depending on XUS LDM light curtain used

■ Segments for cascable Universal light curtains (2)

Height protected	Number of light beams	Reference (3)	Weight
mm			kg
280	24	XUS LDSQ6A0280 ★	1.790
320	32	XUS LDSQ6A0320 ★	1.970
360	36	XUS LDSQ6A0360	2.150
440	44	XUS LDSQ6A0440 ★	2.500
520	52	XUS LDSQ6A0520 ★	2.870
600	60	XUS LDSQ6A0600 ★	3.220
720	72	XUS LDSQ6A0720 ★	3.760
760	76	XUS LDSQ6A0760	3.940
880	88	XUS LDSQ6A0880 ★	4.470
920	92	XUS LDSQ6A0920	4.650
960	96	XUS LDSQ6A0960	4.830
1040	104	XUS LDSQ6A1040	5.190
1120	112	XUS LDSQ6A1120	5.540
1200	120	XUS LDSQ6A1200	5.900



XUS LDSY5A●●●●

Transmitter-receiver pairs for hand protection (1)

Detection capacity 30 mm. Sensing distance depending on XUS LDM light curtain used

■ Segments for cascable Universal light curtains (2)

Height protected	Number of light beams	Reference (3)	Weight
mm			kg
320	16	XUS LDSY5A0320	1.970
360	18	XUS LDSY5A0360 ★	2.150
440	22	XUS LDSY5A0440	2.500
520	26	XUS LDSY5A0520 ★	2.870
600	30	XUS LDSY5A0600	3.220
680	34	XUS LDSY5A0680 ★	3.580
760	38	XUS LDSY5A0760	3.940
880	44	XUS LDSY5A0880 ★	4.470
920	46	XUS LDSY5A0920	4.650
1040	52	XUS LDSY5A1040 ★	5.190
1200	60	XUS LDSY5A1200	5.900
1360	68	XUS LDSY5A1360	6.620
1400	70	XUS LDSY5A1400 ★	6.800
1520	76	XUS LDSY5A1520	7.330
1560	78	XUS LDSY5A1560 ★	7.500
1640	82	XUS LDSY5A1640	7.870
1720	86	XUS LDSY5A1720	8.230
1800	88	XUS LDSY5A1800	8.590
1920	96	XUS LDSY5A1920	9.120
2120	106	XUS LDSY5A2120	10.020

★ Products available in stock

(1) Supplied with 2 sets of 2 brackets and fixings.

Jumper cables to be ordered separately, see page 30314/8.

(2) The segments are to be connected to the M12 4-pin connector on top of the XUS LDM light curtains.

(3) To order a receiver only, add the letter **R** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LDSY5A0320 becomes **XUS LDSY5A0320R** for the receiver only.

To order a transmitter only, add the letter **T** to the end of the reference for the corresponding transmitter-receiver pair.

Example: reference XUS LDSY5A0320 becomes **XUS LDSY5A0320T** for the transmitter only.

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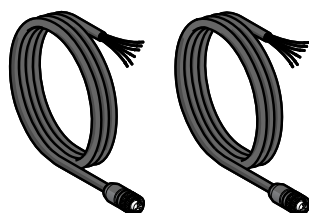
Light curtains Optimum XUS LB and

Universal XUS LDM/LDS with solid-state output



XUS LPDM

563528



XSZ BCT●●

XSZ BCR●●

Separate components

Power supplies, 90° mirror adaptors, protective covers, anti-vibration kit, fixing bases, laser alignment tool

See pages 30308/2 to 30308/9.

Accessories

Description	For use with	Length m	Reference	Weight kg	
Programming and Diagnostic Module (PDM)	Light curtains XUS LB/LDM	–	XUS LPDM ★	0.280	
Holder fixing	Programming and diagnostic module XUS LPDM	–	XUS LZPDM ★	0.040	
Pre-wired connectors for light curtains XUS LB/XUS LDM	Transmitter type	5	XSZ BCT05 ★	0.390	
		10	XSZ BCT10 ★	0.690	
		15	XSZ BCT15 ★	1.030	
		30	XSZ BCT30 ★	1.930	
	Receiver type	5	XSZ BCR05 ★	0.450	
		10	XSZ BCR10 ★	0.780	
		15	XSZ BCR15 ★	1.100	
		30	XSZ BCR30 ★	2.280	
Jumper cables for segments XUS LDS M12 male/female, 4-pin, straight	Transmitter type	0.3	XSZ DCT003 ★	0.050	
		0.5	XSZ DCT005 ★	0.070	
		1	XSZ DCT010 ★	0.110	
		2	XSZ DCT020	0.210	
		3	XSZ DCT030	0.300	
		5	XSZ DCT050	0.490	
		10	XSZ DCT100	0.950	
	Receiver type	0.3	XSZ DCR003 ★	0.050	
		0.5	XSZ DCR005 ★	0.070	
		1	XSZ DCR010 ★	0.110	
		2	XSZ DCR020	0.210	
		3	XSZ DCR030	0.300	
		5	XSZ DCR050	0.490	
		10	XSZ DCR100	0.960	
Jumpers for replacement of light curtains XUS LT by XUS LB or XUS LDM	Transmitter type Male/Female 5 pins	0,3	XSZ TBDMCT003 ★	0.060	
	Receiver type Male/Female 8 pins	0,3	XSZ TBDMCR003 ★	0.060	
Description	For use with	Unit reference		Weight kg	
Replacement caps for M12 connector (Sold in lots of 10)	Light curtains XUS LDM and segments XUS LDS	XUS LZ600 ★		0.001	
Replacement caps for M8 connector (programming and diagnostic module XUS LPDM connection to light curtains) (Sold in lots of 10)	Light curtains XUS LB/LDM and segments XUS LDS	XUS LZ610 ★		0.010	
Fixings kit (2 brackets)	Light curtains XUS LB/LDM and segments XUS LDS	XUS LZ228 ★		0.100	
Sliding nuts (4 nuts) for rear or side fixing with XUS LZ228	Light curtains XUS LB/LDM	XUS LZ330 ★		0,040	
Arc suppressor (pair)	All types of light curtain	XUS LZ500 ★		0.020	
IP 67 protection tube (see page 30314/9)					–
User guide on CD-ROM	All types of light curtain	XUS LZ450		0.010	
Connection box for sensors and Muting indicator light (see page 30315/2)	Light curtains XUS LDM	XPS LCM1 ★		0.190	

★ Products available in stock

IP 67 protection tubes for light curtains XUS LB/XUS LDM and segments XUS LDS		XUS LZD7●●●●	
Environment characteristics			
Air temperature	For operation	°C	0...+ 40
	For storage	°C	- 25...+ 70
Degree of protection			IP 67 conforming to IEC 60529
Material			Acrylic
Sensing distance (Sn) reduction coefficient			0.90

Environmental chemicals			
Chemical resistance	Aliphatic hydrocarbons		Resistant
	Alkalis		
	Aqueous solutions		
	Detergents and cleaners		
	Inorganic diluted acids		
	Chlorinated or aromatic hydrocarbons		Limited resistance
	Esters		
	Ketones		
Environmental resistance	Adverse weather, sunlight (UV)		Resistant
	Humidity		
	Immersion in water		

References of IP 67 protection tubes



XUS LZD7●●●●

Description	For use with	Height mm	Reference	Weight kg
IP 67 protection tubes for XUS LB/LDM transmitter-receiver pair and segments XUS LDS●●● (0.90 Sn) (1) (Sold in lots of 2)	XUS L●●6A0280	284.4	XUS LZD70280	2.650
	XUS L●●●A0320	324.8	XUS LZD70320	2.810
	XUS L●●●A0360	364.5	XUS LZD70360	2.960
	XUS L●●●A0440	443.9	XUS LZD70440	3.270
	XUS L●●●A0520	523.4	XUS LZD70520	3.580
	XUS L●●●A0600	604.1	XUS LZD70600	3.890
	XUS L●●5A0680	683.6	XUS LZD70680	4.190
	XUS L●●6A0720	724	XUS LZD70720	4.350
	XUS L●●●A0760	763	XUS LZD70760	4.500
	XUS L●●●A0880	882.8	XUS LZD70880	4.960
	XUS L●●●A0920	922.5	XUS LZD70920	5.120
	XUS L●●6A0960	963.6	XUS LZD70960	5.270
	XUS L●●●A1040	1042.9	XUS LZD71040	5.580
	XUS L●●6A1120	1122.3	XUS LZD71120	5.890
	XUS L●●●A1200	1203.8	XUS LZD71200	6.200
	XUS L●●●A1360	1362	XUS LZD71360	6.810
	XUS L●●5A1400	1401.7	XUS LZD71400	6.970
	XUS L●●5A1520	1521.5	XUS LZD71520	7.430
	XUS L●●5A1560	1563.3	XUS LZD71560	7.580
	XUS L●●5A1640	1641.3	XUS LZD71640	7.890
	XUS L●●5A1720	1720.8	XUS LZD71720	8.200
	XUS L●●5A1800	1802.9	XUS LZD71800	8.510
	XUS L●●5A1920	1922.8	XUS LZD71920	8.970
	XUS L●●5A2120	2120.7	XUS LZD72120	9.740

(1) Sensing distance reduction coefficient to be taken into account for each pair of IP 67 protection tubes used.

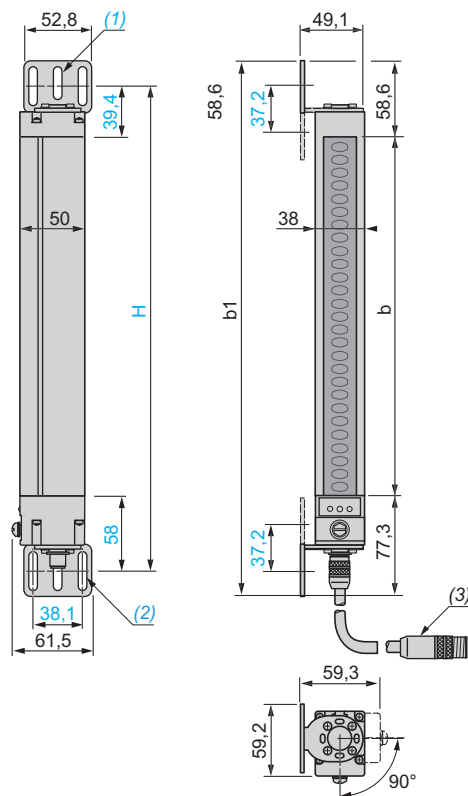
Safety detection solutions Preventa

Safety light curtains, type 4

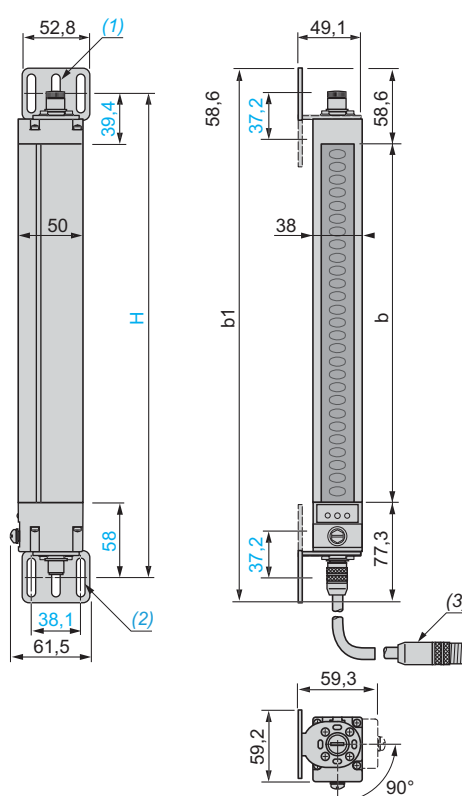
Light curtains Optimum XUS LB and
Universal XUS LDM with solid-state output

Light curtains

XUS LB

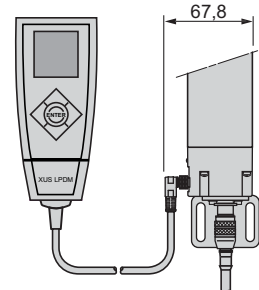


XUS LDM



Programming and diagnostic module

XUS LPDM



XUS	b	b1	H	Height protected
LB●●●0280	284.4	420.4	381.7	280
LB●●●0320	324.8	460.8	422.1	320
LB●●●0360	364.5	500.5	461.8	360
LB●●●0440	443.9	579.9	541.2	440
LB●●●0520	523.4	659.4	620.7	520
LB●●●0600	604.1	740.1	701.4	600
LB●●●0680	683.6	819.6	780.9	680
LB●●●0720	724	860	821.3	720
LB●●●0760	763	899	860.3	760
LB●●●0880	882.8	1018.8	980.1	880
LB●●●0920	922.5	1058.5	1019.8	920
LB●●●0960	963.6	1099.6	1060.9	960
LB●●●1040	1042.9	1178.9	1140.2	1040
LB●●●1120	1122.3	1258.3	1219.6	1120
LB●●●1200	1203.8	1339.8	1301.1	1200
LB●●●1360	1362	1498	1459.3	1360
LB●●●1400	1401.7	1537.7	1499	1400
LB●●●1520	1521.5	1657.5	1618.8	1520
LB●●●1560	1563.3	1699.3	1660.6	1560
LB●●●1640	1641.3	1777.3	1738.6	1640
LB●●●1720	1720.8	1856.8	1818.1	1720
LB●●●1800	1802.9	1938.9	1900.2	1800
LB●●●1920	1922.8	2058.8	2020.1	1920
LB●●●2120	2120.7	2256.7	2217.3	2120

XUS	b	b1	H	Height protected
LDM●●0280	284.4	420.4	381.7	280
LDM●●0320	324.8	460.8	422.1	320
LDM●●0360	364.5	500.5	461.8	360
LDM●●0440	443.9	579.9	541.2	440
LDM●●0520	523.4	659.4	620.7	520
LDM●●0600	604.1	740.1	701.4	600
LDM●●0680	683.6	819.6	780.9	680
LDM●●0720	724	860	821.3	720
LDM●●0760	763	899	860.3	760
LDM●●0880	882.8	1018.8	980.1	880
LDM●●0920	922.5	1058.5	1019.8	920
LDM●●0960	963.6	1099.6	1060.9	960
LDM●●1040	1042.9	1178.9	1140.2	1040
LDM●●1120	1122.3	1258.3	1219.6	1120
LDM●●1200	1203.8	1339.8	1301.1	1200
LDM●●1360	1362	1498	1459.3	1360
LDM●●1400	1401.7	1537.7	1499	1400
LDM●●1520	1521.5	1657.5	1618.8	1520
LDM●●1560	1563.3	1699.3	1660.6	1560
LDM●●1640	1641.3	1777.3	1738.6	1640
LDM●●1720	1720.8	1856.8	1818.1	1720
LDM●●1800	1802.9	1938.9	1900.2	1800
LDM●●1920	1922.8	2058.8	2020.1	1920
LDM●●2120	2120.7	2256.7	2217.3	2120

(1) 2 elongated holes 18.5 x 6.8 mm.

(2) 4 elongated holes 23.2 x 6.8 mm.

(3) M12 male connector on 0.27 m flying lead.

Safety detection solutions

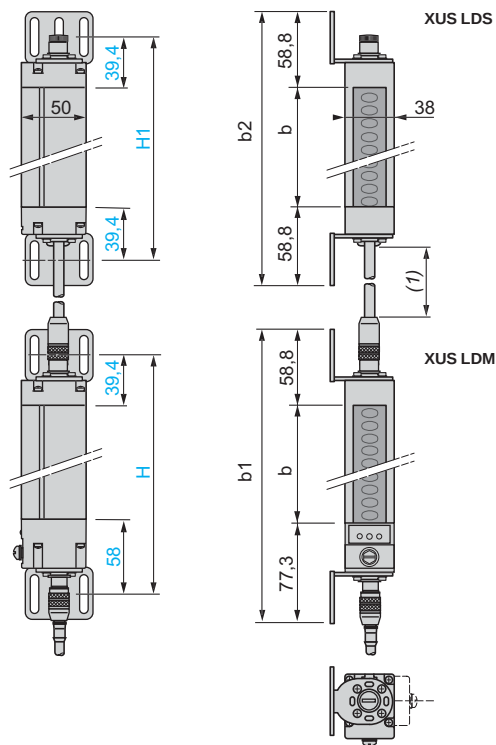
Preventa

Safety light curtains, type 4

Segments XUS LDS for Universal XUS LDM light curtains
Protection tube

Cascadable segments

XUS LDS

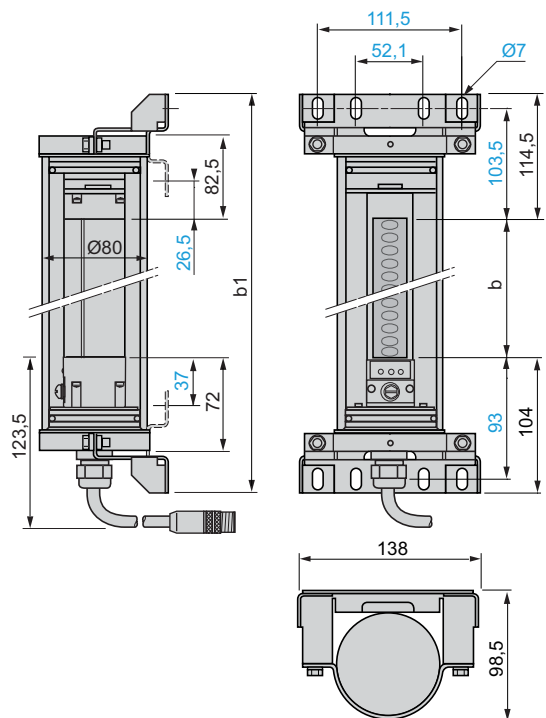


XUS	b	b1	b2	H	H1	Height protected
LDS●●●0280	284.4	420.4	401.5	381.7	363.1	280
LDS●●●0320	324.8	460.8	442.3	422.1	403.5	320
LDS●●●0360	364.5	500.5	482	461.8	443.2	360
LDS●●●0440	443.9	579.9	561.4	541.2	522.6	440
LDS●●●0520	523.4	659.4	640.9	620.7	602.1	520
LDS●●●0600	604.1	740.1	721.6	701.4	682.8	600
LDS●●●0680	683.6	819.6	801.1	780.9	762.3	680
LDS●●●0720	724	860	841.5	821.3	802.7	720
LDS●●●0760	763	899	880.5	860.3	841.7	760
LDS●●●0880	882.8	1018.8	1000.3	980.1	961.5	880
LDS●●●0920	922.5	1058.5	1040	1019.8	1001.2	920
LDS●●●0960	963.6	1099.6	1081.1	1060.9	1042.3	960
LDS●●●1040	1042.9	1178.9	1160.4	1140.2	1121.6	1040
LDS●●●1120	1122.3	1258.3	1239.8	1219.6	1201	1120
LDS●●●1200	1203.8	1339.8	1321.3	1301.1	1282.5	1200
LDS●●●1360	1362	1498	1479.5	1459.3	1440.7	1360
LDS●●●1400	1401.7	1537.7	1519.2	1499	1480.4	1400
LDS●●●1520	1521.5	1657.5	1639	1618.8	1600.2	1520
LDS●●●1560	1563.3	1699.3	1680.8	1660.6	1679.2	1560
LDS●●●1640	1641.3	1777.3	1758.8	1738.6	1720	1640
LDS●●●1720	1720.8	1856.8	1838.3	1818.1	1799.5	1720
LDS●●●1800	1802.9	1938.9	1920.4	1900.2	1881.6	1800
LDS●●●1920	1922.8	2058.8	2040.3	2020.1	2001.5	1920
LDS●●●2120	2120.7	2256.7	2237.5	2217.3	2198.7	2120

(1) Flexible 0.11 m long cable.

Protection tube for light curtains XUS LB/XUS LDM and segments XUS LDS

XUS LZD7●●●●



XUS	b	b1
LZD70280	284.4	502.8
LZD70320	324.8	543.2
LZD70360	364.5	582.9
LZD70440	443.9	662.3
LZD70520	523.4	741.8
LZD70600	604.1	822.5
LZD70680	683.6	902
LZD70720	724	942.4
LZD70760	763	981.4
LZD70880	882.8	1101.2
LZD70920	922.5	1140.9
LZD70960	963.6	1182

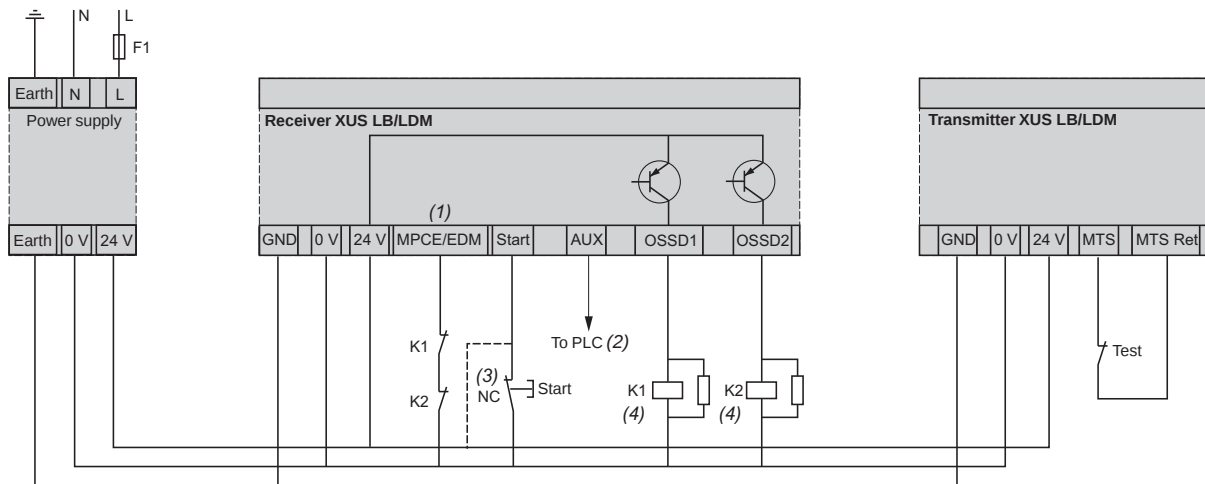
XUS	b	b1
LZD71040	1042.9	1261.3
LZD71120	1122.3	1340.7
LZD71200	1203.8	1422.2
LZD71360	1362	1580.4
LZD71400	1401.7	1620.1
LZD71520	1521.5	1739.9
LZD71560	1563.3	1781.7
LZD71640	1641.3	1859.2
LZD71720	1720.8	1939.2
LZD71800	1802.9	2021.2
LZD71920	1922.8	2141.2
LZD72120	2120.7	2338.4

Safety detection solutions Preventa

Safety light curtains, type 4

Light curtains Optimum XUS LB and
Universal XUS LDM with solid-state output

Direct connection with XUS LB/LDM●●●



(1) For testing prior to installation, the user can select MPCE/EDM OFF (default factory setting). In this case, the MPCE/EDM line must be connected to the 0 V line of the system.

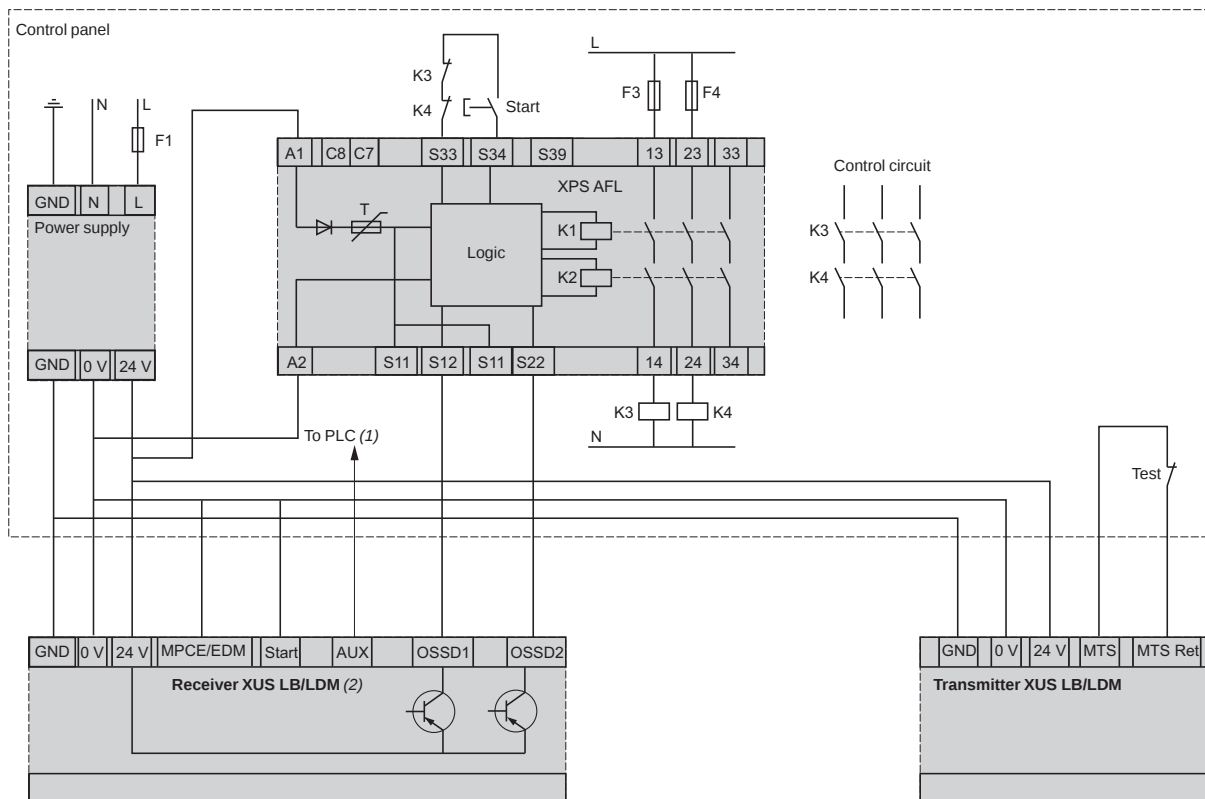
(2) The auxiliary output connects to a PLC (optional).

(3) If remote start is not used, connect the start line to the 0 V line.

(4) The K1 and K2 coils must be protected using the arc suppressors included in the documentation kit.

Note: Relays K1 and K2 must have mechanically linked contacts.

Connection via a Preventa XPS AFL module



(1) The auxiliary output connects to a PLC (optional).

(2) The light curtain must be configured with MPCE/EDM OFF and with automatic start.

Note: Relays K1 and K2 must have mechanically linked contacts.

Safety detection solutions Preventa

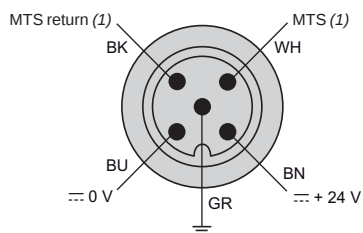
Safety light curtains, type 4

Light curtains Optimum XUS LB and

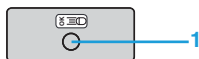
Universal XUS LDM with solid-state output

Transmitter

Transmitter connector



Transmitter status indicator

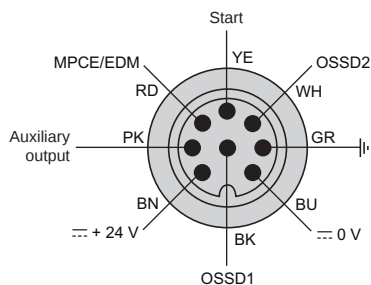


1 Yellow LED

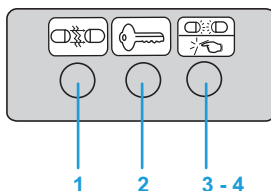
(1) Light curtain test input.

Receiver

Receiver connector



Receiver status indicator

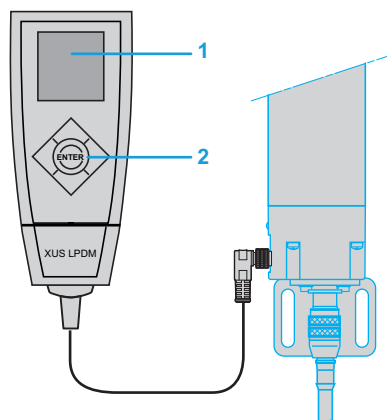


1 Blanking: Orange LED
2 Interlock or Alarm: Yellow LED
3 - 4 Machine run: Green LED
Machine stop: Red LED

Programming and diagnostic module

Description and connection to light curtains XUS LB/LDM

XUS LPDM



1 Screen
2 Navigation button for displaying menus and selecting functions

Safety detection solutions Preventa

Safety light curtains, type 4

Light curtains Optimum XUS LB and

Universal XUS LDM with solid-state output

Light curtains Optimum	
Detection capacity 14 mm	
Old light curtain	New light curtain
XUS LTQ6A0260, XUS LTQ6B0260	XUS LBQ6A0280
XUS LTQ6A0350, XUS LTQ6B0350	XUS LBQ6A0320, XUS LBQ6A0360
XUS LTQ6A0435, XUS LTQ6B0435	XUS LBQ6A0440
XUS LTQ6A0520, XUS LTQ6B0520	XUS LBQ6A0520
XUS LTQ6A0610, XUS LTQ6B0610	XUS LBQ6A0600
XUS LTQ6A0700, XUS LTQ6B0700	XUS LBQ6A0720
XUS LTQ6A0785, XUS LTQ6B0785	XUS LBQ6A0760
XUS LTQ6A0870, XUS LTQ6B0870	XUS LBQ6A0880, XUS LBQ6A0920
XUS LTQ6A0955, XUS LTQ6B0955	XUS LBQ6A0960
XUS LTQ6A1045, XUS LTQ6B1045	XUS LBQ6A1040
XUS LTQ6A1130, XUS LTQ6B1130	XUS LBQ6A1120
XUS LTQ6A1215, XUS LTQ6B1215	XUS LBQ6A1200
XUS LTQ6A1305, XUS LTQ6B1390, XUS LTQ6A1390, XUS LTQ6B1390	XUS LBQ6A1360
Detection capacity 30 mm	
Old light curtain	New light curtain
XUS LTR5A0350, XUS LTR5B0350	XUS LBR5A0320, XUS LBR5A0360, XUS LBR5A0440
XUS LTR5A0520, XUS LTR5B0520	XUS LBR5A0520, XUS LBR5A0600
XUS LTR5A0700, XUS LTR5B0700	XUS LBR5A0680, XUS LBR5A0760
XUS LTR5A0870, XUS LTR5A0870,	XUS LBR5A0880, XUS LBR5A0920
XUS LTR5A1045, XUS LTR5B1045	XUS LBR5A1040
XUS LTR5A1215, XUS LTR5B1215	XUS LBR5A1200, XUS LBR5A1360
XUS LTR5A1390, XUS LTR5B1390	XUS LBR5A1400, XUS LBR5A1520
XUS LTR5A1570, XUS LTR5B1570	XUS LBR5A1560, XUS LBR5A1640
XUS LTR5A1745, XUS LTR5B1745	XUS LBR5A1720, XUS LBR5A1800
XUS LTR5A1920, XUS LTR5B1920	XUS LBR5A1920
XUS LTR5A2095, XUS LTR5B2095	XUS LBR5A2120

Note: Caution, the characteristics of the ranges (optics, connections, dimensions, fixings, functions, etc.) are not exactly the same.
Please refer to the detailed characteristics of the XUS LB..... and XUS LD..... ranges and associated accessories when replacing a light curtain from the XUS LT..... range.

Safety detection solutions Preventa

Safety light curtains, type 4
 Light curtains Optimum XUS LB and
 Universal XUS LDM with solid-state output

Light curtains Universel	
Detection capacity 30 mm	
Old light curtain	New light curtain
XUS LTY5A0350, XUS LTY5B0350	XUS LDMY5A0320, XUS LDMY5A0360, XUS LDMY5A0440
XUS LTY5A0520, XUS LTY5B0520	XUS LDMY5A0520, XUS LDMY5A0600
XUS LTY5A0700, XUS LTY5B0700	XUS LDMY5A0680, XUS LDMY5A0760
XUS LTY5A0870, XUS LTY5B0870	XUS LDMY5A0880, XUS LDMY5A0920
XUS LTY5A1045, XUS LTY5B1045	XUS LDMY5A1040
XUS LTY5A1215, XUS LTY5B1215	XUS LDMY5A1200, XUS LDMY5A1360
XUS LTY5A1390, XUS LTY5B1390	XUS LDMY5A1400, XUS LDMY5A1520
XUS LTY5A1570, XUS LTY5B1570	XUS LDMY5A1560, XUS LDMY5A1640
XUS LTY5A1745, XUS LTY5B1745	XUS LDMY5A1720, XUS LDMY5A1800
XUS LTY5A1920, XUS LTY5B1920	XUS LDMY5A1920
XUS LTY5A2095, XUS LTY5B2095	XUS LDMY5A2120

*Note: Caution, the characteristics of the ranges (optics, connections, dimensions, fixings, functions, etc.) are not exactly the same.
 Please refer to the detailed characteristics of the XUS LB..... and XUS LD..... ranges and associated accessories when replacing a light curtain from the XUS LT..... range.*