EOS4

EOS4

EOS4 is a compact Type 4 light curtain with competitive performance and innovative features.

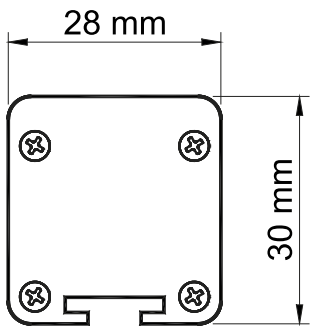
Its features include:

- Minimal cross section - 28 x 30 mm.
- No blind area on one side:
  the position of first beam ensures that the sensitive area extends to end of the light curtain.
- The solution with two L-mounted light curtains, e.g. Master-Slave, maintains 40 mm resolution in corner (models with resolution up to 40 mm).
- Minimal blind area on connector side.
- Easy connection and installation thanks to the M12 connectors and the use of unshielded cables up to 100 m.
- Integrated safety functions, including self-monitoring of static outputs, control of external contactors (EDM) and automatic/manual selectable Restart.
- Exceptional mechanical and electrical robustness are the result of extensive experience gained hands-on with all kinds of applications.
- Operating temperature range -10 to 55 °C.
- Protection rate: IP 65 and IP 67 at the same time
  High resistance to infiltration by dust and liquids in a highly compact light curtain.
- Models Master/Slave for cascade connection of two or three light curtains.
- 2 safety PNP static outputs.

Special versions with IP 69K watertight enclosure (WTF and WTHF), also suitable for Food & Beverage industry, available (see page 192).

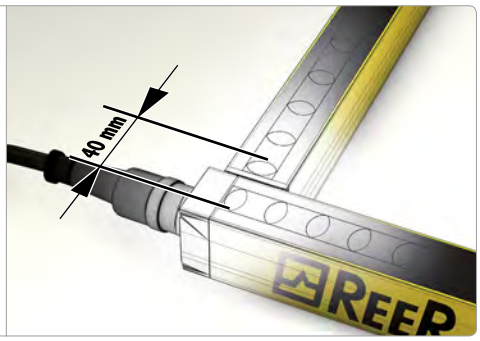
EOS4 light curtains may be connected to the dedicated safety interfaces series AD SR, or directly to contactors actuated and controlled by the light curtain, or to MOSAIC or to suitable commercial safety modules or safety PLCs.

Cross section



< of safety light curtain resolution = no blind zone

Two L-mounted light curtains maintain 40 mm resolution in the corner (models with resolution up to 40 mm)



Safety level: Type 4 – SIL 3 – SILCL 3 – PL e – Cat. 4

- 2006/42/CE "Machinery Directive"
- 2004/108/CE "Electromagnetic Compatibility (EMC)"
- 2006/95/CE "Low Voltage Directive (LVD)"
- IEC/EN 61496-1 Ed. 2.1, IEC/TS 61496-2 Ed. 2 "Safety of machinery - Electro-sensitive protective equipment- General requirements and tests"
- EN ISO 13849-1 "Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design"
- IEC/EN 62061 "Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- IEC 61508 "Functional safety of electrical/electronic/programmable electronic safety-related systems"
- IEC/TS 62046 Ed. 2 "Safety of machinery – Application of protective equipment to detect the presence of persons"
- UL (C+US) mark for USA and Canada
- ANSI / UL 1998 "Safety Software in Programmable Components".

EOS4

THE EOS4 RANGE

EOS4 A

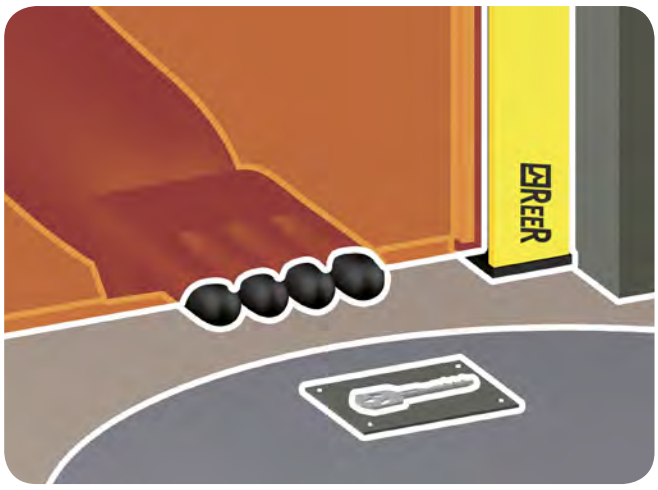
- Protected height range 160 to 1510 mm
- 7 types of detection:
  - Resolution 14 mm for finger detection
  - Resolution 20 - 30 - 40 mm for hand detection
  - Resolution 50 - 90 mm for detection of the body in a dangerous area
  - 2 - 3 - 4 beams for detection of the body in access control
- Max range 12 m and 20 m for H models (6 m for 14 mm resolution)
- 2 safety static outputs PNP with auto-test protected against short circuits and overloads
- Automatic Start/Restart
- M12 5-pole connectors.

The ideal light curtain for straightforward interfacing with safety modules or safety PLCs.

EOS4 X

- Protected height range 160 to 1510 mm
- 7 types of detection:
  - Resolution 14 mm for finger detection
  - Resolution 20 - 30 - 40 mm for hand detection
  - Resolution 50 - 90 mm for detection of the body in a dangerous area
  - 2 - 3 - 4 beams for detection of the body in access control
- Max range 12 m and 20 m for H models (6 m for 14 mm resolution)
- M12 5-pole connector for emitter and M12 8-pole for receiver
- Integrated, selectable manual or automatic Start/Restart
- Feedback input for external relay monitoring (EDM)
- Master and Slave models for series connection of two or three light curtains regardless of height or resolution.

An effective light curtain for directly controlling and monitoring machine circuits with no need of external safety modules.
Master/Slave models are also ideal for series connection of several light curtains and combined detection of hand and body or the protection of two different sides of a machine.



The protected area extends until the light curtain end maintaining the resolution

The resolution is maintained (up to 40 mm) in the junction between the 2 protected areas

EOS4 A

MAIN FEATURES

Automatic Start/Restart.
Two safety PNP static outputs, auto-controlled.
All connections and configurations through M12 5-pole connectors.
Unshielded cables up to 100 meter long.
Start/Restart interlock and EDM through external AD SR1 interface.
Muting function through external AD SRM interface.

TECHNICAL FEATURES

Safety level	Type 4 according to IEC/TS 61496-2 SIL 3 – SILCL 3 according to IEC 61508 - IEC 62061 PL e – Cat. 4 according to ISO 13849-1
Protected heights (mm)	160 to 1510
Resolutions (mm)	14 – 20 – 30 – 40 – 50 – 90
Numbers of beams for body detection in access control	2 – 3 – 4
Max. range (m)	selectable 3 - 6 for 14 mm resolution for 20 – 30 – 40 – 50 – 90 mm resolution and 2 – 3 – 4 beams: selectable 10 – 20 for H models selectable 4 – 12 for standard models
Response time (ms)	2,5 – 20
Safety outputs	2 PNP – 400 mA at 24 VDC
Signaling	LEDs for light curtain's status and diagnostic
Start/Restart	automatic
Power supply (VDC)	24 ± 20%
Electrical connections	M12 - 5 poles
Max. cable lenght (m)	100
Operating temperature (°C)	-10 to 55
Protection rating	IP 65 and IP 67
Fastening modes	back slot
Cross section (mm)	28 x 30

Safety level:

Type **4**

SIL 3 – SILCL 3
PL e – Cat. 4

EOS4 A

Resolution 14 mm	EOS4 151 A	EOS4 301 A	EOS4 451 A	EOS4 601 A	EOS4 751 A	EOS4 901 A	EOS4 1051 A	EOS4 1201 A	EOS4 1351 A	EOS4 1501 A
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	15	30	45	60	75	90	105	120	135	150
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 20 mm	EOS4 152 AH	EOS4 302 AH	EOS4 452 AH	EOS4 602 AH	EOS4 752 AH	EOS4 902 AH	EOS4 1052 AH	EOS4 1202 AH	EOS4 1352 AH	EOS4 1502 AH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	15	30	45	60	75	90	105	120	135	150
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 30 mm	EOS4 153 A	EOS4 303 A	EOS4 453 A	EOS4 603 A	EOS4 753 A	EOS4 903 A	EOS4 1053 A	EOS4 1203 A	EOS4 1353 A	EOS4 1503 A
–	EOS4 153 AH	EOS4 303 AH	EOS4 453 AH	EOS4 603 AH	EOS4 753 AH	EOS4 903 AH	EOS4 1053 AH	EOS4 1203 AH	EOS4 1353 AH	EOS4 1503 AH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	8	16	23	31	38	46	53	61	68	76
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 40 mm	EOS4 154 A	EOS4 304 A	EOS4 454 A	EOS4 604 A	EOS4 754 A	EOS4 904 A	EOS4 1054 A	EOS4 1204 A	EOS4 1354 A	EOS4 1504 A
–	EOS4 154 AH	EOS 304 AH	EOS4 454 AH	EOS4 604 AH	EOS4 754 AH	EOS4 904 AH	EOS4 1054 AH	EOS4 1204 AH	EOS4 1354 AH	EOS4 1504 AH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	6	11	16	21	26	31	36	41	46	51
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 50 mm	EOS4 155 A	EOS4 305 A	EOS4 455 A	EOS4 605 A	EOS4 755 A	EOS4 905 A	EOS4 1055 A	EOS4 1205 A	EOS4 1355 A	EOS4 1505 A
–	EOS4 155 AH	EOS4 305 AH	EOS4 455 AH	EOS4 605 AH	EOS4 755 AH	EOS4 905 AH	EOS4 1055 AH	EOS4 1205 AH	EOS4 1355 AH	EOS4 1505 AH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	4	8	12	16	20	24	28	32	36	40
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 90 mm	EOS4 309 A	EOS4 459 A	EOS4 609 A	EOS4 759 A	EOS4 909 A	EOS4 1059 A	EOS4 1209 A	EOS4 1359 A	EOS4 1509 A
–	EOS4 309 AH	EOS4 459 AH	EOS4 609 AH	EOS4 759 AH	EOS4 909 AH	EOS4 1059 AH	EOS4 1209 AH	EOS4 1359 AH	EOS4 1509 AH
Protected heights (mm)	310	460	610	760	910	1060	1210	1360	1510
Number of beams	4	6	8	10	12	14	16	18	20
Overall height (mm)	363	513	663	813	963	1113	1263	1413	1563

2-3-4-beams	EOS4 2B A	EOS4 3B A	EOS4 4B A
–	EOS4 2B AH	EOS4 3B AH	EOS4 4B AH
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected heights (mm)	510	810	910
Overall height (mm)	653	953	1053

• For accessories see page 64 • For ordering codes see page 215

EOS4 X

WITH BUILT-IN CONTROL FUNCTIONS

MAIN FEATURES

Built-in, selectable manual/automatic Start/Restart
Feedback input for external relays monitoring (EDM).
Two safety PNP static outputs, auto-controlled.
All connections and setting adjustments through M12 5-pole and 8-pole connectors.
Unshielded cables up to 100 meter long.
Master and Slave models for series connection of up to 3 light curtains.
Max. length of connections toward Slaves: 50 meters, through standard unshielded cables.

TECHNICAL FEATURES

Safety level	Type 4 according to IEC/TS 61496-2 SIL 3 – SILCL 3 according to IEC 61508 - IEC 62061 PL e – Cat. 4 according to ISO 13849-1
Protected heights (mm)	160 to 1510
Resolutions (mm)	14 – 20 – 30 – 40 – 50 – 90
Numbers of beams for body detection in access control	2 – 3 – 4
Max. range (m)	selectable 3 - 6 for 14 mm resolution 20 – 30 – 40 – 50 – 90 mm resolution and 2 – 3 – 4 beams: selectable 10 – 20 for H models selectable 4 – 12 for standard models
Response time (ms)	2,5 – 20
Safety outputs	2 PNP – 400 mA at 24 VDC
Signaling	LEDs for light curtain's status and diagnostic
Start/Restart	selectable automatic or manual
External Device Monitoring	external device monitoring feedback input with selectable enabling
Power supply (VDC)	24 ± 20%
Electrical connections for EOS4 X and EOS4 X Master	M12 - 5 poles for emitter M12 - 8 poles for receiver
Electrical connections between Master and Slave	M12 - 5 poles for emitter and receiver
Max. cable lenght (m)	100 (50 between Master and Slave)
Operating temperature (°C)	-10 to 55
Protection rating	IP 65 and IP 67
Fastening modes	back slot
Cross section (mm)	28 x 30

Safety level:

Type **4**

SIL 3 – SILCL 3
PL e – Cat. 4

EOS4 X

WITH BUILT-IN CONTROL FUNCTIONS

Resolution 14 mm	EOS4 151 X	EOS4 301 X	EOS4 451 X	EOS4 601 X	EOS4 751 X	EOS4 901 X	EOS4 1051 X	EOS4 1201 X	EOS4 1351 X	EOS4 1501 X
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	15	30	45	60	75	90	105	120	135	150
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 20 mm	EOS4 152 XH	EOS4 302 XH	EOS4 452 XH	EOS4 602 XH	EOS4 752 XH	EOS4 902 XH	EOS4 1052 XH	EOS4 1202 XH	EOS4 1352 XH	EOS4 1502 XH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	15	30	45	60	75	90	105	120	135	150
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 30 mm	EOS4 153 X	EOS4 303 X	EOS4 453 X	EOS4 603 X	EOS4 753 X	EOS4 903 X	EOS4 1053 X	EOS4 1203 X	EOS4 1353 X	EOS4 1503 X
–	EOS4 153 XH	EOS4 303 XH	EOS4 453 XH	EOS4 603 XH	EOS4 753 XH	EOS4 903 XH	EOS4 1053 XH	EOS4 1203 XH	EOS4 1353 XH	EOS4 1503 XH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	8	16	23	31	38	46	53	61	68	76
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 40 mm	EOS4 154 X	EOS4 304 X	EOS4 454 X	EOS4 604 X	EOS4 754 X	EOS4 904 X	EOS4 1054 X	EOS4 1204 X	EOS4 1354 X	EOS4 1504 X
–	EOS4 154 XH	EOS 304 XH	EOS4 454 XH	EOS4 604 XH	EOS4 754 XH	EOS4 904 XH	EOS4 1054 XH	EOS4 1204 XH	EOS4 1354 XH	EOS4 1504 XH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	6	11	16	21	26	31	36	41	46	51
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 50 mm	EOS4 155 X	EOS4 305 X	EOS4 455 X	EOS4 605 X	EOS4 755 X	EOS4 905 X	EOS4 1055 X	EOS4 1205 X	EOS4 1355 X	EOS4 1505 X
–	EOS4 155 XH	EOS4 305 XH	EOS4 455 XH	EOS4 605 XH	EOS4 755 XH	EOS4 905 XH	EOS4 1055 XH	EOS4 1205 XH	EOS4 1355 XH	EOS4 1505 XH
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	4	8	12	16	20	24	28	32	36	40
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563

Resolution 90 mm	EOS4 309 X	EOS4 459 X	EOS4 609 X	EOS4 759 X	EOS4 909 X	EOS4 1059 X	EOS4 1209 X	EOS4 1359 X	EOS4 1509 X
–	EOS4 309 XH	EOS4 459 XH	EOS4 609 XH	EOS4 759 XH	EOS4 909 XH	EOS4 1059 XH	EOS4 1209 XH	EOS4 1359 XH	EOS4 1509 XH
Protected heights (mm)	310	460	610	760	910	1060	1210	1360	1510
Number of beams	4	6	8	10	12	14	16	18	20
Overall height (mm)	363	513	663	813	963	1113	1263	1413	1563

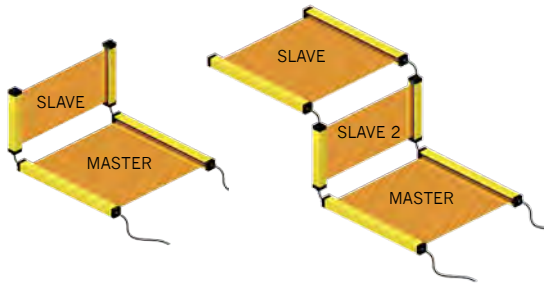
2-3-4-beams	EOS4 2B X	EOS4 3B X	EOS4 4B X
–	EOS4 2B XH	EOS4 3B XH	EOS4 4B XH
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected heights (mm)	510	810	910
Overall height (mm)	653	953	1053

• For accessories see page 64 • For ordering codes see page 215

EOS4

MASTER/SLAVE MODELS

Master/Slave models permit series connection of up to three light curtains and combined detection of hand and presence of a person or of more sides of the machine, with the following major benefits:
- A single pair of safety outputs
- No interference between light curtains installed adjacent to one another.

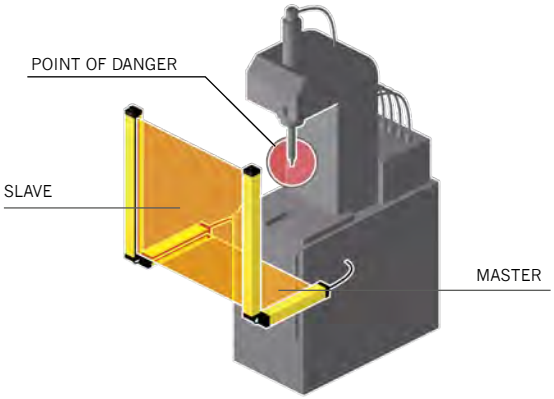


EXAMPLES OF SERIES CONNECTION OF MASTER AND SLAVE LIGHT CURTAINS

Any Master model can be used together with any Slave model.

All electrical connections are made using M12 5-pole connectors, except for Master receivers which necessitate the adoption of M12 8-pole connectors.

Pre-wired cables with twin connectors are available for the connection between Master and Slave.

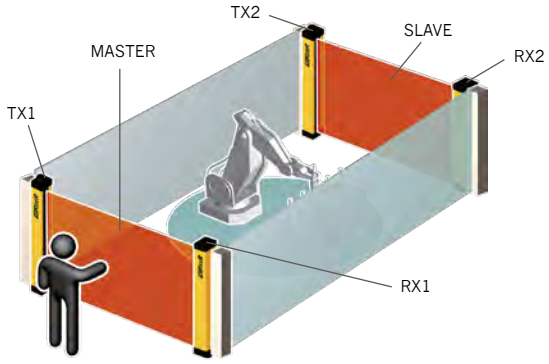


EXAMPLES OF SERIES CONNECTION OF MASTER AND SLAVE LIGHT CURTAINS

Master light curtain is placed horizontally for detection of the person and Slave light curtain is placed vertically to detect fingers or hands.

The arrangement can be reversed to have the Master light curtain vertical for finger and hand detection and the Slave light curtain horizontally for detecting the presence of a person.

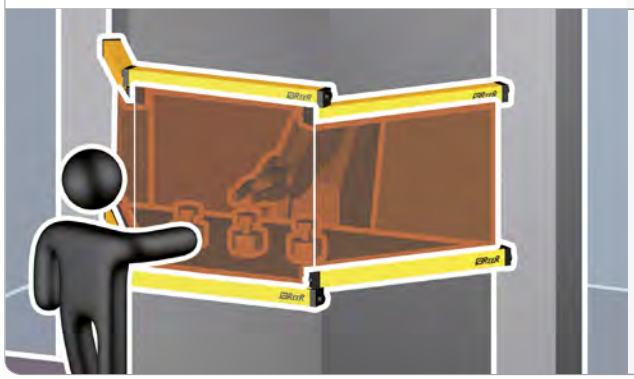
The application shown is one of the most common: horizontal curtains are used to prevent the operator from being undetected in the space between vertical light curtain and dangerous machine, upon system start-up or restarting.



EXAMPLE OF SERIES CONNECTION OF MASTER AND SLAVE LIGHT CURTAINS FOR PROTECTION OF TWO SIDES OF THE MACHINE

On EOS4 X the connecting cable across Master and Slave is a standard (unshielded) cable up to 50 meter long.

Thus, two series connected curtains may be located one at the front of the machine and the other at the rear, with a single connection to the machine power and control circuitry.



EXAMPLE OF SERIES CONNECTION OF ONE MASTER AND TWO SLAVE LIGHT CURTAINS FOR THE PROTECTION OF THREE SIDES OF THE MACHINE

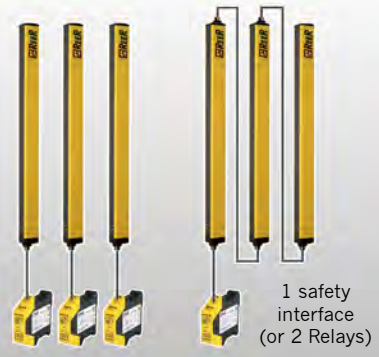
Benefit: unimpeded operator access to work area from front and sides.

Continues

EOS4

Follows

Series connections diagram



Benefit: with three standard curtains it will be necessary to use and wire up 3 safety interfaces or 6 contactors.

With the master/slave solution having 3 series light curtains it will be enough to use and wire up only 1 safety interface or 2 contactors.

MASTER/SLAVE MODELS

MASTER Resolution 14 mm		**EOS4 301 XM**	**EOS4 451 XM**	**EOS4 601 XM**	**EOS4 751 XM**	**EOS4 901 XM**	**EOS4 1051 XM**	**EOS4 1201 XM**	**EOS4 1351 XM**	**EOS4 1501 XM**
SLAVE Resolution 14 mm	**EOS4 151 XS**	**EOS4 301 XS**	**EOS4 451 XS**	**EOS4 601 XS**	**EOS4 751 XS**	**EOS4 901 XS**	**EOS4 1051 XS**	**EOS4 1201 XS**	**EOS4 1351 XS**	**EOS4 1501 XS**
SLAVE 2 Resolution 14 mm		**EOS4 301 XS2**	**EOS4 451 XS2**	**EOS4 601 XS2**	**EOS4 751 XS2**	**EOS4 901 XS2**	**EOS4 1051 XS2**	**EOS4 1201 XS2**	**EOS4 1351 XS2**	**EOS4 1501 XS2**
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	15	30	45	60	75	90	105	120	135	150
Overall height (mm)*	213	363	513	663	813	963	1113	1263	1413	1563

MASTER Resolution 30 mm		**EOS4 303 XM**	**EOS4 453 XM**	**EOS4 603 XM**	**EOS4 753 XM**	**EOS4 903 XM**	**EOS4 1053 XM**	**EOS4 1203 XM**	**EOS4 1353 XM**	**EOS4 1503 XM**
SLAVE Resolution 30 mm	**EOS4 153 XS**	**EOS4 303 XS**	**EOS4 453 XS**	**EOS4 603 XS**	**EOS4 753 XS**	**EOS4 903 XS**	**EOS4 1053 XS**	**EOS4 1203 XS**	**EOS4 1353 XS**	**EOS4 1503 XS**
SLAVE 2 Resolution 30 mm		**EOS4 303 XS2**	**EOS4 453 XS2**	**EOS4 603 XS2**	**EOS4 753 XS2**	**EOS4 903 XS2**	**EOS4 1053 XS2**	**EOS4 1203 XS2**	**EOS4 1353 XS2**	**EOS4 1503 XS2**
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	8	16	23	31	38	46	53	61	68	76
Overall height (mm)*	213	363	513	663	813	963	1113	1263	1413	1563

MASTER Resolution 40 mm		**EOS4 304 XM**	**EOS4 454 XM**	**EOS4 604 XM**	**EOS4 754 XM**	**EOS4 904 XM**	**EOS4 104 XM**	**EOS4 1204 XM**	**EOS4 1354 XM**	**EOS4 1504 XM**
SLAVE Resolution 40 mm	**EOS4 154 XS**	**EOS4 304 XS**	**EOS4 454 XS**	**EOS4 604 XS**	**EOS4 754 XS**	**EOS4 904 XS**	**EOS4 1054 XS**	**EOS4 1204 XS**	**EOS4 1354 XS**	**EOS4 1504 XS**
SLAVE 2 Resolution 40 mm		**EOS4 304 XS2**	**EOS4 454 XS2**	**EOS4 604 XS2**	**EOS4 754 XS2**	**EOS4 904 XS2**	**EOS4 1054 XS2**	**EOS4 1204 XS2**	**EOS4 1354 XS2**	**EOS4 1504 XS2**
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1510
Number of beams	6	11	16	21	26	31	36	41	46	51
Overall height (mm)*	213	363	513	663	813	963	1113	1263	1413	1563

EOS4 X

WITH BUILT-IN CONTROL FUNCTIONS

MASTER/SLAVE MODELS

MASTER Resolution 50 mm		**EOS4 305 XM**	**EOS4 455 XM**	**EOS4 605 XM**	**EOS4 755 XM**	**EOS4 905 XM**	**EOS4 105 XM**	**EOS4 1205 XM**	**EOS4 1355 XM**	**EOS4 1505 XM**
SLAVE Resolution 50 mm	**EOS4 155 XS**	**EOS4 305 XS**	**EOS4 455 XS**	**EOS4 605 XS**	**EOS4 755 XS**	**EOS4 905 XS**	**EOS4 1055 XS**	**EOS4 1205 XS**	**EOS4 1355 XS**	**EOS4 1505 XS**
SLAVE 2 Resolution 50 mm		**EOS4 305 XS2**	**EOS4 455 XS2**	**EOS4 605 XS2**	**EOS4 755 XS2**	**EOS4 905 XS2**	**EOS4 1055 XS2**	**EOS4 1205 XS2**	**EOS4 1355 XS2**	**EOS4 1505 XS2**
Protected heights (mm)	160	310	460	610	760	910	1060	1210	1360	1560
Number of beams	4	8	12	16	20	24	28	32	36	40
Overall height (mm)*	213	363	513	663	813	963	1113	1263	1413	1563

MASTER Resolution 90 mm	**EOS4 309 XM**	**EOS4 459 XM**	**EOS4 609 XM**	**EOS4 759 XM**	**EOS4 909 XM**	**EOS4 1059 XM**	**EOS4 1209 XM**	**EOS4 1359 XM**
SLAVE Resolution 90 mm	**EOS4 309 XS**	**EOS4 459 XS**	**EOS4 609 XS**	**EOS4 759 XS**	**EOS4 909 XS**	**EOS4 1059 XS**	**EOS4 1209 XS**	**EOS4 1359 XS**
SLAVE 2 Resolution 90 mm	**EOS4 309 XS2**	**EOS4 459 XS2**	**EOS4 609 XS2**	**EOS4 759 XS2**	**EOS4 909 XS2**	**EOS4 1059 XS2**	**EOS4 1209 XS2**	**EOS4 1359 XS2**
Protected heights (mm)	310	460	610	760	910	1060	1210	1360
Number of beams	4	6	8	10	12	14	16	18
Overall height (mm)*	363	513	663	813	963	1113	1263	1413

MASTER 2-3-4 beams	**EOS4 2B XM**	**EOS4 3B XM**	**EOS4 4B XM**
SLAVE 2-3-4 beams	**EOS4 2B XS**	**EOS4 3B XS**	**EOS4 4B XS**
SLAVE 2 2-3-4 beams	**EOS4 2B XS2**	**EOS4 3B XS2**	**EOS4 4B XS2**
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected heights (mm)	510	810	910
Overall height (mm)*	653	953	1053

* On Master and Slave2, the total height of the light curtain is 24 mm greater due to the addition of a secondary connector

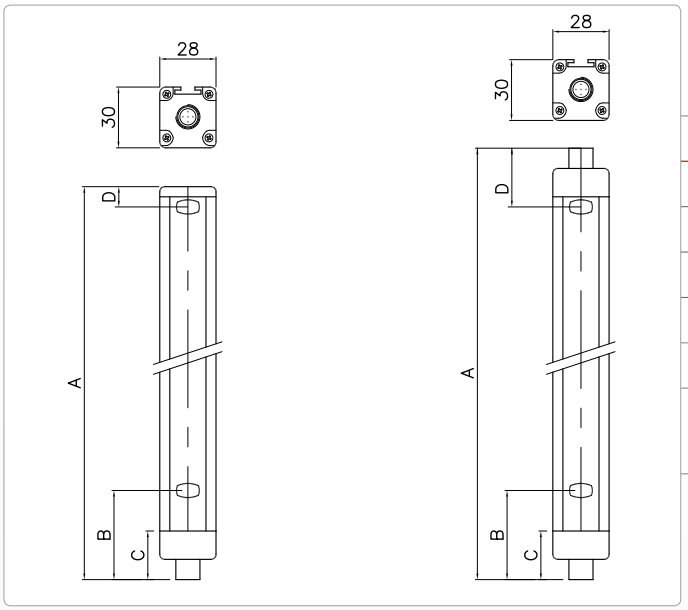
• For accessories see page 64 • For ordering codes see page 216

EOS4 X

WITH BUILT-IN CONTROL FUNCTIONS

DIMENSIONS (mm)

EOS4 SLAVE **EOS4 MASTER / SLAVE 2**



Model	2B	3B	4B
A	653	953	1053
A (Master/Slave2)	677	977	1077
B	102		
C	29.5		
D	51		
D (Master/Slave2) (with 2 connectors)	75		

Model	150	300	450	600	750	900	1050	1200	1350	1500
A	213	363	513	663	813	963	1113	1263	1413	1563
A (Master/Slave)	236.5	386.5	536.5	686.5	836.5	986.5	1136.5	1286.5	1436.5	1586.5
B	61.5									
C	29.5									
D	11									
D (Master/Slave 2) (with 2 connectors)	34.5									
Mounting	2 LE type brackets with 2 inserts							3 LE type brackets with 3 inserts		

WARNING!

- Where the light curtain is subjected to strong vibrations (presses, textile looms, etc.) always use vibrations dampers SAV E (available as accessories) in order to prevent damaging the light curtain
- Where protections are to be placed over long distances or on several sides using deflection mirrors, it is advisable to use laser alignment aid LAD 4 to ensure simple, quick and perfect alignment of light curtains.

EOS4

ORDERING INFORMATION (for ordering codes see page 215)

Each EOS4 light curtain comprises:
▪ Emitter and Receiver pair
▪ Brackets and inserts
▪ CD-ROM containing the multi-language instruction manual complete with CE declaration of conformity
▪ Quick installation guide

ACCESSORIES

EOS4 light curtains can be supplied with the following accessories, to be ordered separately:	
▪ AD SR Safety Relays	see page 180
▪ LAD laser alignment device	see page 210
▪ FMC floor mounting columns	see page 206
▪ SP deflection mirrors	see page 209
▪ SAV E vibrations dampers	see page 211
▪ SFB swivel fixing brackets	see page 212
▪ Connectors	see list hereunder:

CONNECTORS EOS4 (EOS4 A emitter and receiver EOS4 X emitter)

Model	**Description**
CD 5	M12 straight connector, 5 poles, pre-wired cable 5 m
CD 10	M12 straight connector, 5 poles, pre-wired cable 10 m
CD 15	M12 straight connector, 5 poles, pre-wired cable 15 m
CD 20	M12 straight connector, 5 poles, pre-wired cable 20 m
CD 25	M12 straight connector, 5 poles, pre-wired cable 25 m
CD 50	M12 straight connector, 5 poles, pre-wired cable 50 m
CD 95	M12 90° angle connector, 5 poles, pre-wired cable 5 m
CD 910	M12 90° angle connector, 5 poles, pre-wired cable 10 m
CD 915	M12 90° angle connector, 5 poles, pre-wired cable 15 m
CDM 9	M12 straight connector, 5 poles with screw terminal, PG9 cable gland
CDM 99	M12 angle connector, 5 poles with screw terminal, PG9 cable gland

CONNECTORS EOS4 X receivers

Model	**Description**
C8D 5	M12 straight connector, 8 poles, pre-wired cable 5 m
C8D 10	M12 straight connector, 8 poles, pre-wired cable 10 m
C8D 15	M12 straight connector, 8 poles, pre-wired cable 15 m
C8D 25	M12 straight connector, 8 poles, pre-wired cable 25 m
C8D 40	M12 straight connector, 8 poles, pre-wired cable 40 m
C8D 95	M12 90° angle connector, 8 poles, pre-wired cable 5 m
C8D 910	M12 90° angle connector, 8 poles, pre-wired cable 10 m
C8D 915	M12 90° angle connector, 8 poles, pre-wired cable 15 m
C8DM 11	M12 straight connector, 8 poles with screw terminal, PG9/11 cable gland
C8DM 911	M12 90° angle connector, 8 poles with screw terminal, PG9/11 cable gland

CONNECTION BETWEEN MASTER AND SLAVE

Model	**Description**
CDS 03	0,3 m pre-wired cable with 2 straight connectors, M12 5 poles
CJBE 3	3 m pre-wired cable with 2 straight connectors, M12 5 poles
CJBE 5	5 m pre-wired cable with 2 straight connectors, M12 5 poles
CJBE 10	10 m pre-wired cable with 2 straight connectors, M12 5 poles
CJBE 25	25 m pre-wired cable with 2 straight connectors, M12 5 poles