EOS 2

■ EOS 2

EOS2 is a compact Type 2 light curtain with competitive performance and innovative features.
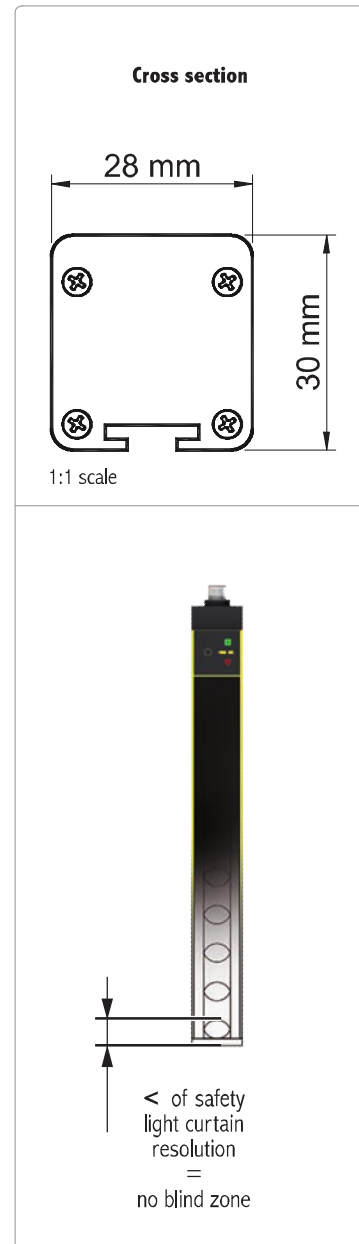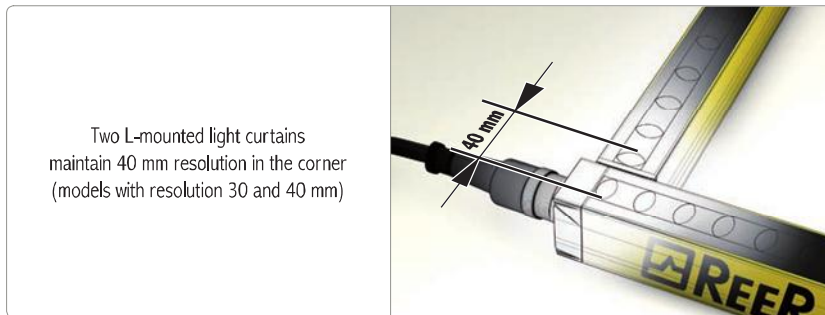
Its features include:
- Minimal cross section: 28 x 30 mm.
- No blind area on one side: the position of first beam ensures that the sensitive area extends to end of the light curtain.
- Minimal blind area on connector side.
- The solution with two L-mounted light curtains, e.g. Master-Slave, maintains 40 mm resolution in corner (models with resolution 30 and 40 mm).
- 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 ... 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.

Special models in conformity with the "ATEX Directive" 94/9/CE - Dust zone 22 - Gas Zone 2 available on request.

EOS2 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.
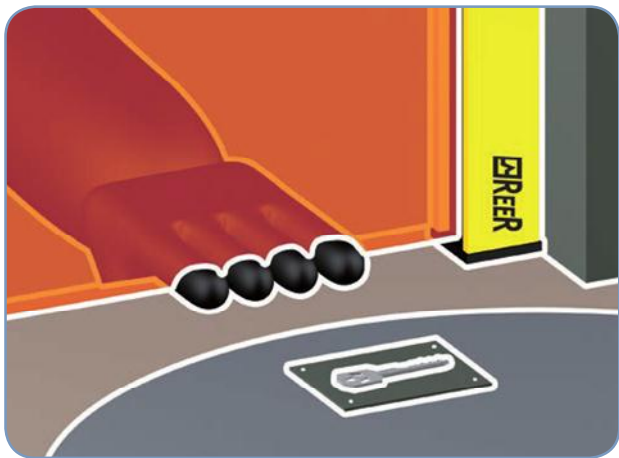

Cross section

28 mm
30 mm
1:1 scale

< of safety light curtain resolution = no blind zone

Two L-mounted light curtains maintain 40 mm resolution in the corner (models with resolution 30 and 40 mm)

40 mm

Safety level: Type 2 – SIL 2 – SILCL 2 – PL d – Cat. 2

- 2006/42/EC "Machinery Directive"
- 2004/108/EC " Electromagnetic Compatibility (EMC)"
- 2006/95/EC "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".

CE

TÜV SÜD

c(UL)us LISTED E S P E

THE EOS2 RANGE

EOS2 A	EOS2 X	EOS4 XS - XM - XS2
Automatic Start/Restart	Built-in, selectable manual or automatic Start/Restart	Master and Slave models for series connection of two or three light curtains regardless of height or resolution
The ideal light curtain for straightforward interfacing with safety modules (i.e. AD SR1) or safety PLCs. (i.e. MOSAIC)	An effective light curtain for directly controlling and monitoring machine circuits with no need of external safety modules	Ideal solution for series connection of several light curtains and combined detection of hand and body or the protection of two different sides of a machine
External relay monitoring (EDM) through external AD SR1 interface, MOSAIC or safety PLCs	Feedback input for external relay monitoring (EDM)	
Electrical connections: M12 5-pole connectors	Electrical connections: M12 5-pole connector for emitter M12 8-pole for receiver	
Max. range 12 m		
Protected height range 160 to 1810 mm		
Types of detection: resolution 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		
2 safety static outputs PNP with auto-test protected against short circuits and overloads		

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
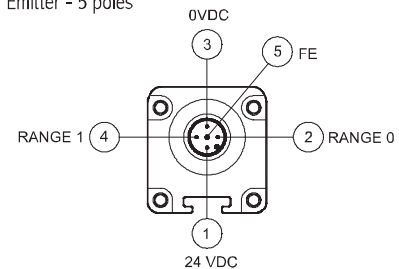
EOS2 A
WITH AUTOMATIC START/RESTART

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.
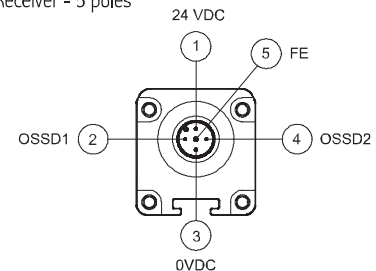Autotest every 0.5 sec.

TECHNICAL FEATURES

Safety level	Type 2 according to IEC/TS 61496-2 SIL 2 – SILCL 2 according to IEC 61508 - IEC 62061 PL d – Cat. 2 according to ISO 13849-1
Protected heights (mm)	160 ... 1810
Resolutions (mm)	30, 40, 50, 90
Numbers of beams for body detection in access control	2, 3, 4
Max. range (m)	4 or 12 selectable
Response time (ms)	2,5 ... 18,5
Safety outputs	2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection
Signaling	LEDs for light curtain's status and diagnostic
Start/Restart	automatic
Power supply (VDC)	24 ± 20%
Electrical connections	M12 5-pole for emitter and receiver
Max. cable lenght (m)	100
Operating temperature (°C)	-10 ... 55
Protection rating	IP 65 and IP 67
Fastening modes	back slot or to the top and lower end by rotating brackets SFB E180 (optional)
Cross section (mm)	28 x 30

Emitter - 5 poles

Receiver - 5 poles

Safety level:

TYPE 2

SIL 2 – SILCL 2
PL d – Cat. 2

Resolution 30 mm	EOS2 153 A	EOS2 253 A	EOS2 303 A	EOS2 453 A	EOS2 603 A	EOS2 753 A	EOS2 903 A	EOS2 1053 A	EOS2 1203 A	EOS2 1353 A	EOS2 1503 A	EOS2 1653 A	EOS2 1803 A
Ordering codes	1320200	1321205	1320201	1320202	1320203	1320204	1320205	1320206	1320207	1320208	1320209	1320270	1320271
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	8	13	16	23	31	38	46	53	61	68	76	83	91
Overall height (mm)	213	313	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 40 mm	EOS2 154 A	EOS2 254 A	EOS2 304 A	EOS2 454 A	EOS2 604 A	EOS2 754 A	EOS2 904 A	EOS2 1054 A	EOS2 1204 A	EOS2 1354 A	EOS2 1504 A	EOS2 1654 A	EOS2 1804 A
Ordering codes	1320300	1321202	1320301	1320302	1320303	1320304	1320305	1320306	1320307	1320308	1320309	1320370	1320371
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	6	9	11	16	21	26	31	36	41	46	51	56	61
Overall height (mm)	213	313	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 50 mm	EOS2 155 A	EOS2 305 A	EOS2 455 A	EOS2 605 A	EOS2 755 A	EOS2 905 A	EOS2 1055 A	EOS2 1205 A	EOS2 1355 A	EOS2 1505 A	EOS2 1655 A	EOS2 1805 A
Ordering codes	1320400	1320401	1320402	1320403	1320404	1320405	1320406	1320407	1320408	1320409	1320470	1320471
Protected height (mm)	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	8	12	16	20	24	28	32	36	40	44	48
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 90 mm	EOS2 309 A	EOS2 459 A	EOS2 609 A	EOS2 759 A	EOS2 909 A	EOS2 1059 A	EOS2 1209 A	EOS2 1359 A	EOS2 1509 A	EOS2 1659 A	EOS2 1809 A
Ordering codes	1320501	1320502	1320503	1320504	1320505	1320506	1320507	1320508	1320509	1320570	1320571
Protected height (mm)	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	6	8	10	12	14	16	18	20	22	24
Overall height (mm)	363	513	663	813	963	1113	1263	1413	1563	1713	1863

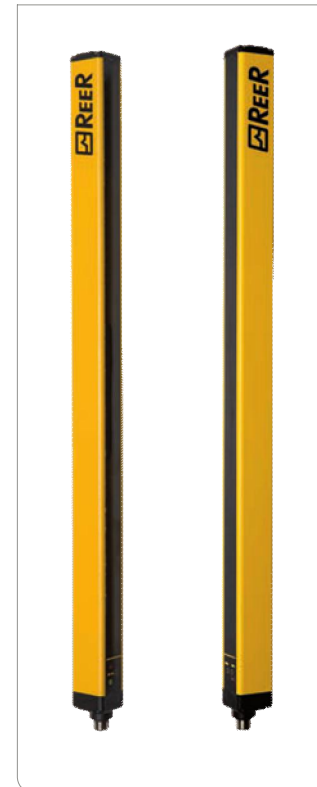| 2, 3, 4 beams	EOS2 2B A	EOS2 3B A	EOS2 4B A
Ordering codes	1320600	1320601	1320602
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected height (mm)	510	810	910
Overall height (mm)	653	953	1053

EOS2 X
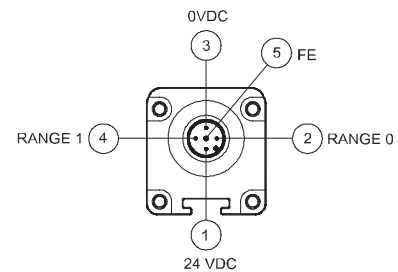## WITH BUILT-IN CONTROL FUNCTIONS

MAIN FEATURES

Built-in, selectable manual/automatic Start/Restart.
Feedback input for controlling external relays (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 cable.
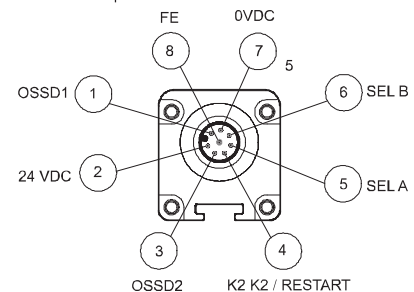Autotest every 0.5 sec.

TECHNICAL FEATURES

Safety level	Type 2 according to IEC/TS 61496-2 SIL 2 – SILCL 2 according to IEC 61508 - IEC 62061 PL d – Cat. 2 according to ISO 13849-1
Protected heights (mm)	160 ... 1810
Resolutions (mm)	30, 40, 50, 90
Numbers of beams for body detection in access control	2, 3, 4
Max. range (m)	4 or 12 selectable
Response time (ms)	2,5 ... 18,5
Safety outputs	2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection
Singnaling	LEDs for light curtain's status and diagnostic
Start/Restart	selectable automatic or manual
External Device Monitoring	external device monitoring feedback input with enabling, selectable
Power supply (VDC)	24 ± 20%
Electrical connections for EOS2 X and EOS2 X Master	M12 5-pole for emitter M12 8-pole for receiver
Electrical connections between Master and Slave	M12 5-pole per emitter and receiver
Max. cable length (m)	100 (50 between Master and Slave)
Operating temperature (°C)	-10 ... 55
Protection rating	IP 65 and IP 67
Fastening modes	back slot
Cross section (mm)	28 x 30

Safety level:

TYPE 2

SIL 2 – SILCL 2
PL d – Cat. 2

CE   TÜV SÜD   c(UL)us LISTED E S P E

Emitter - 5 poles

```
              0VDC
         3         5  FE
RANGE 1  4         2  RANGE 0
              1
            24 VDC
```

Receiver - 8 poles

```
         FE       0VDC
         8         7     5
OSSD1 1              6  SEL B
24 VDC 2            5  SEL A
         3         4
       OSSD2   K2 K2 / RESTART
```

Resolution 30 mm	EOS2 153 X	EOS2 253 X	EOS2 303 X	EOS2 453 X	EOS2 603 X	EOS2 753 X	EOS2 903 X	EOS2 1053 X	EOS2 1203 X	EOS2 1353 X	EOS2 1503 X	EOS2 1653 X	EOS2 1803 X
Ordering codes	1320210	1321200	1320211	1320212	1320213	1320214	1320215	1320216	1320217	1320218	1320219	1320272	1320273
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	8	13	16	23	31	38	46	53	61	68	76	83	91
Overall height (mm)	213	313	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 40 mm	EOS2 154 X	EOS2 254 X	EOS2 304 X	EOS2 454 X	EOS2 604 X	EOS2 754 X	EOS2 904 X	EOS2 1054 X	EOS2 1204 X	EOS2 1354 X	EOS2 1504 X	EOS2 1654 X	EOS2 1804 X
Ordering codes	1320310	1321209	1320311	1320312	1320313	1320314	1320315	1320316	1320317	1320318	1320319	1320372	1320373
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	6	8	11	16	21	26	31	36	41	46	51	56	61
Overall height (mm)	213	313	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 50 mm	EOS2 155 X	EOS2 305 X	EOS2 455 X	EOS2 605 X	EOS2 755 X	EOS2 905 X	EOS2 1055 X	EOS2 1205 X	EOS2 1355 X	EOS2 1505 X	EOS2 1655 X	EOS2 1805 X
Ordering codes	1320410	1320411	1320412	1320413	1320414	1320415	1320416	1320417	1320418	1320419	1320472	1320473
Protected height (mm)	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	8	12	16	20	24	28	32	36	40	44	48
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863

Resolution 90 mm	EOS2 309 X	EOS2 459 X	EOS2 609 X	EOS2 759 X	EOS2 909 X	EOS2 1059 X	EOS2 1209 X	EOS2 1359 X	EOS2 1509 X	EOS2 1659 X	EOS2 1809 X
Ordering codes	1320511	1320512	1320513	1320514	1320515	1320516	1320517	1320518	1320519	1320572	1320573
Protected height (mm)	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	6	8	10	12	14	16	18	20	22	24
Overall height (mm)	363	513	663	813	963	1113	1263	1413	1563	1713	1863

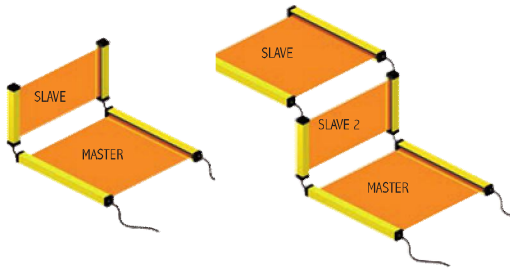| 2, 3, 4 beams	EOS2 2B X	EOS2 3B X	EOS2 4B X
Ordering codes	1320610	1320611	1320612
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected height (mm)	510	810	910
Overall height (mm)	653	953	1053

► **"ACCESSORIES" on page 132**

EOS2 XS - XM - XS2
MASTER / SLAVE MODELS WITH BUILT-IN CONTROL FUNCTIONS

MASTER/SLAVE MODELS

Master/Slave models permit series connection of up to three safety 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
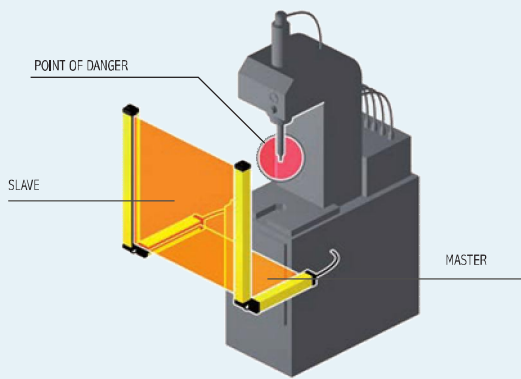- No interference between light curtains installed adjacent to one another.

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.
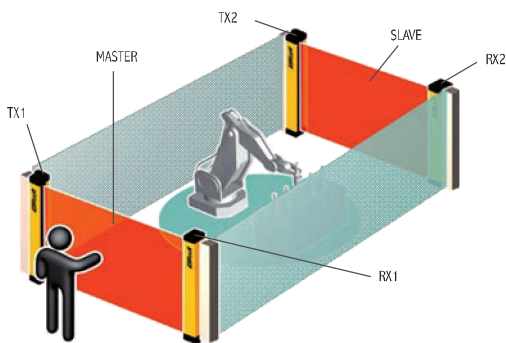

EXAMPLES OF SERIES CONNECTION OF MASTER AND SLAVE LIGHT CURTAINS

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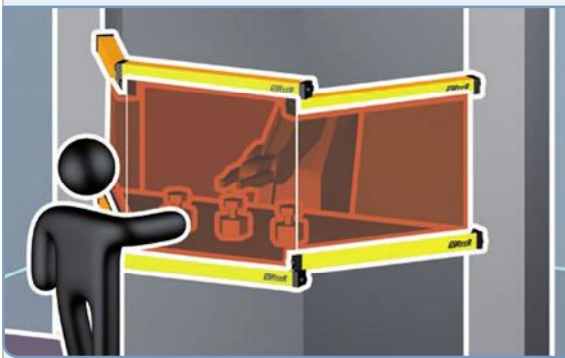
The application shown is one of the most common: horizontal curtains are used to prevent the operator from being undetected in the space between vertical light curtain and dangerous machine, upon system start-up or restarting.

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

On EOS2 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.
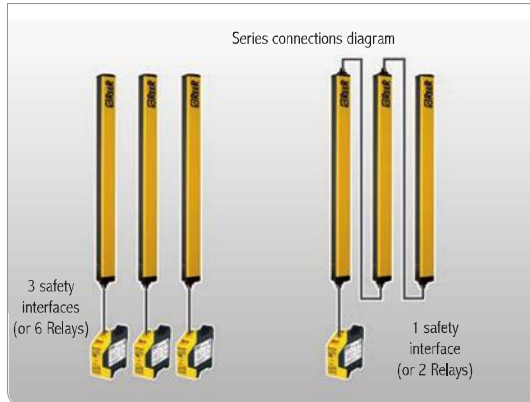

EXAMPLE OF SERIES CONNECTION OF ONE MASTER AND TWO SLAVE LIGHT CURTAINS FOR THE PROTECTION OF THREE SIDES OF THE MACHINE

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

EOS2 XS - XM - XS2
MASTER / SLAVE MODELS WITH BUILT-IN CONTROL FUNCTIONS

Series connections diagram

3 safety interfaces (or 6 Relays)

1 safety interface (or 2 Relays)

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 30 mm	-	EOS 2 253 XM	EOS2 303 XM	EOS2 453 XM	EOS2 603 XM	EOS2 753 XM	EOS2 903 XM	EOS2 1053 XM	EOS2 1203 XM	EOS2 1353 XM	EOS2 1503 XM	EOS2 1653 XM	EOS2 1803 XM
Ordering codes	-	1321206	1320221	1320222	1320223	1320224	1320225	1320226	1320227	1320228	1320229	1320274	1320275
SLAVE Resolution 30 mm	EOS2 153 XS	EOS 2 253 XS	EOS2 303 XS	EOS2 453 XS	EOS2 603 XS	EOS2 753 XS	EOS2 903 XS	EOS2 1053 XS	EOS2 1203 XS	EOS2 1353 XS	EOS2 1503 XS	EOS2 1653 XS	EOS2 1803 XS
Ordering codes	1320230	1321207	1320231	1320232	1320233	1320234	1320235	1320236	1320237	1320237	1320239	1320276	1320277
SLAVE 2 Resolution 30 mm	-	EOS 2 253 XM2	EOS2 303 XS2	EOS2 453 XS2	EOS2 603 XS2	EOS2 753 XS2	EOS2 903 XS2	EOS2 1053 XS2	EOS2 1203 XS2	EOS2 1353 XS2	EOS2 1503 XS2	EOS2 1653 XS2	EOS2 1803 XS2
Ordering codes	-	1321208	1320241	1320242	1320243	1320244	1320245	1320246	1320247	1320248	1320249	1320278	1320279
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	8	13	16	23	31	38	46	53	61	68	76	83	91
Overall height (mm)	236.5	336.5	386.5	536.5	686.5	836.5	986.5	1136.5	1286.5	1436.5	1586.5	1736.5	1886.5

MASTER Resolution 40 mm	-	EOS2 254 XM	EOS2 304 XM	EOS2 454 XM	EOS2 604 XM	EOS2 754 XM	EOS2 904 XM	EOS2 104 XM	EOS2 1204 XM	EOS2 1354 XM	EOS2 1504 XM	EOS2 1654 XM	EOS2 1804 XM
Ordering codes	-	1321210	1320321	1320322	1320323	1320324	1320325	1320326	1320327	1320328	1320329	1320374	1320375
SLAVE Resolution 40 mm	EOS2 154 XS	EOS2 254 XS	EOS2 304 XS	EOS2 454 XS	EOS2 604 XS	EOS2 754 XS	EOS2 904 XS	EOS2 1054 XS	EOS2 1204 XS	EOS2 1354 XS	EOS2 1504 XS	EOS2 1654 XS	EOS2 1804 XS
Ordering codes	1320330	1321211	1320331	1320332	1320333	1320334	1320335	1320336	1320337	1320338	1320339	1320376	1320377
SLAVE 2 Resolution 40 mm	-	EOS2 254 XM2	EOS2 304 XS2	EOS2 454 XS2	EOS2 604 XS2	EOS2 754 XS2	EOS2 904 XS2	EOS2 1054 XS2	EOS2 1204 XS2	EOS2 1354 XS2	EOS2 1504 XS2	EOS2 1654 XS2	EOS2 1804 XS2
Ordering codes	-	1321212	1320341	1320342	1320343	1320344	1320345	1320346	1320347	1320348	1320349	1320378	1320379
Protected height (mm)	160	260	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	6	9	11	16	21	26	31	36	41	46	51	56	61
Overall height (mm)	236.5	336.5	386.5	536.5	686.5	836.5	986.5	1136.5	1286.5	1436.5	1586.5	1736.5	1886.5

► **"ACCESSORIES" on page 132**

EOS2 XS - XM - XS2
MASTER / SLAVE MODELS WITH BUILT-IN CONTROL FUNCTIONS

MASTER Resolution 50 mm	-	EOS2 305 XM	EOS2 455 XM	EOS2 605 XM	EOS2 755 XM	EOS2 905 XM	EOS2 105 XM	EOS2 1205 XM	EOS2 1355 XM	EOS2 1505 XM	EOS2 1655 XM	EOS2 1805 XM
Ordering codes		1320421	1320422	1320423	1320424	1320425	1320426	1320427	1320428	1320429	1320474	1320475
SLAVE Resolution 50 mm	EOS2 155 XS	EOS2 305 XS	EOS2 455 XS	EOS2 605 XS	EOS2 755 XS	EOS2 905 XS	EOS2 1055 XS	EOS2 1205 XS	EOS2 1355 XS	EOS2 1505 XS	EOS2 1655 XS	EOS2 1805 XS
Ordering codes	1320430	1320431	1320432	1320433	1320434	1320435	1320436	1320437	1320438	1320439	1320476	1320477
SLAVE 2 Resolution 50 mm	-	EOS2 305 XS2	EOS2 455 XS2	EOS2 605 XS2	EOS2 755 XS2	EOS2 905 XS2	EOS2 1055 XS2	EOS2 1205 XS2	EOS2 1355 XS2	EOS2 1505 XS2	EOS2 1655 XS2	EOS2 1805 XS2
Ordering codes	-	1320441	1320442	1320443	1320444	1320445	1320446	1320447	1320448	1320449	1320478	1320479
Protected height (mm)	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	8	12	16	20	24	28	32	36	40	44	48
Overall height (mm)	236.5	386.5	536.5	686.5	836.5	986.5	1136.5	1286.5	1436.5	1586.5	1736.5	1886.5

MASTER Resolution 90 mm	EOS2 309 XM	EOS2 459 XM	EOS2 609 XM	EOS2 759 XM	EOS2 909 XM	EOS2 1059 XM	EOS2 1209 XM	EOS2 1359 XM	EOS2 1509 XM	EOS2 1659 XM	EOS2 1809 XM
Ordering codes	1320521	1320522	1320523	1320524	1320525	1320526	1320527	1320528	1320529	1320574	1320575
SLAVE Resolution 90 mm	EOS2 309 XS	EOS2 459 XS	EOS2 609 XS	EOS2 759 XS	EOS2 909 XS	EOS2 1059 XS	EOS2 1209 XS	EOS2 1359 XS	EOS2 1509 XS	EOS2 1659 XS	EOS2 1809 XS
Ordering codes	1320531	1320532	1320533	1320534	1320535	1320536	1320537	1320538	1320539	1320576	1320577
SLAVE 2 Resolution 90 mm	EOS2 309 XS2	EOS2 459 XS2	EOS2 609 XS2	EOS2 759 XS2	EOS2 909 XS2	EOS2 1059 XS2	EOS2 1209 XS2	EOS2 1359 XS2	EOS2 1509 XS2	EOS2 1659 XS2	EOS2 1809 XS2
Ordering codes	1320541	1320542	1320543	1320544	1320545	1320546	1320547	1320548	1320549	1320578	1320579
Protected heights (mm)	310	460	610	760	910	1060	1210	1360	1510	1660	1810
Number of beams	4	6	8	10	12	14	16	18	20	22	24
Overall height (mm)	386.5	536.5	686.5	836.5	986.5	1136.5	1266.5	1436.5	1586.5	1736.5	1886.5

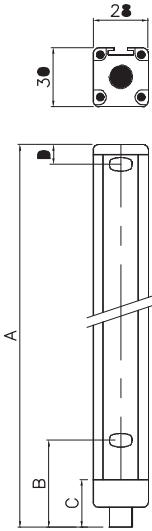| MASTER 2, 3, 4 beams	EOS2 2B XM	EOS2 3B XM	EOS2 4B XM
Ordering codes	1320620	1320621	1320622
SLAVE 2, 3, 4 beams	EOS2 2B XS	EOS2 3B XS	EOS2 4B XS
Ordering codes	1320630	1320631	1320632
SLAVE 2 2, 3, 4 beams	EOS2 2B XS2	EOS2 3B XS2	EOS2 4B XS2
Ordering codes	1320640	1320641	1320642
Number of beams	2	3	4
Beam spacing (mm)	500	400	300
Protected heights (mm)	510	810	910
Overall height barriera (mm)*	677	977	1077

* On slave models, the overall height of the light curtain is the same of the standard model.
On master and slave models 2 the total height of curtain is 24 mm greater owing to the addition of a secondary connector.
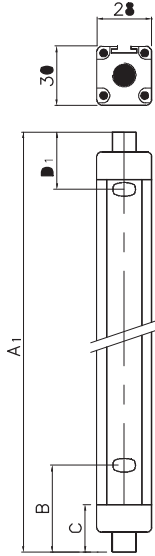
DIMENSIONS (mm)

EOS2 / EOS2 SLAVE

EOS2 MASTER / EOS2 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)	75		

Model	150	250	300	450	600	750	900	1050	1200	1350	1500	1650	1800
A	213	313	363	513	663	813	963	1113	1263	1413	1563	1713	1886
A1 (Master/Slave2)	236.5	336.5	386.5	536.5	686.5	836.5	986.5	1136.5	1286.5	1436.5	1586.5	1736.5	1908.5
B	61.5												
C	29.5												
D	11												
D1 (Master/Slave2)	34.5												
Mounting	Complete set of 4 LE type brackets included in the package								Complete set of 6 LE type brackets included in the package				

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.

ORDERING INFORMATION

Each EOS2 light curtain comprises:

Emitter and Receiver pair	CD-ROM containing the multi-language instruction manual complete with CE declaration of conformity
Brackets and inserts	Quick installation guide

ACCESSORIES

EOS2 curtains can be supplied with the following accessories, to be ordered separately:

AD SR Safety Relays	▶ See page 183
FMC floor mounting columns	▶ See page 220
SP deflection mirrors	▶ See page 223
LAD laser alignment device	▶ See page 224
SAV E vibrations dampers	▶ See page 225
SFB swivel fixing brackets	▶ See page 226
Connectors	▶ See list hereunder:

CONNECTORS EOS2 (EOS2 A emitter and receiver / EOS2 X emitter)

Model	Code	Description
CD 5	1330950	M12 straight connector, 5 poles, pre-wired cable 5 m
CD 10	1330956	M12 straight connector, 5 poles, pre-wired cable 10 m
CD 15	1330952	M12 straight connector, 5 poles, pre-wired cable 15 m
CD 20	1330957	M12 straight connector, 5 poles, pre-wired cable 20 m
CD 25	1330949	M12 straight connector, 5 poles, pre-wired cable 25 m
CD 50	1330965	M12 straight connector, 5 poles, pre-wired cable 50 m
CD 95	1330951	M12 90° angle connector, 5 poles, pre-wired cable 5 m
CD 910	1330958	M12 90° angle connector, 5 poles, pre-wired cable 10 m
CD 915	1330953	M12 90° angle connector, 5 poles, pre-wired cable 15 m
CDM 9	1330954	M12 straight connector, 5 poles with screw terminal, PG9 cable gland
CDM 99	1330955	M12 angle connector, 5 poles with screw terminal, PG9 cable gland

CONNECTORS EOS2 X receivers

Model	Code	Description
C8D 5	1330980	M12 straight connector, 8 poles, pre-wired cable 5 m
C8D 10	1330981	M12 straight connector, 8 poles, pre-wired cable 10 m
C8D 15	1330982	M12 straight connector, 8 poles, pre-wired cable 15 m
C8D 25	1330967	M12 straight connector, 8 poles, pre-wired cable 25 m
C8D 40	1330966	M12 straight connector, 8 poles, pre-wired cable 40 m
C8D 95	1330983	M12 90° angle connector, 8 poles, pre-wired cable 5 m
C8D 910	1330984	M12 90° angle connector, 8 poles, pre-wired cable 10 m
C8D 915	1330985	M12 90° angle connector, 8 poles, pre-wired cable 15 m
C8DM 11	1330978	M12 straight connector, 8 poles with screw terminal, PG9/11 cable gland
C8DM 911	1330979	M12 90° angle connector, 8 poles with screw terminal, PG9/11 cable gland

CONNECTION BETWEEN MASTER AND SLAVE

Model	Code	Description
CDS 03	1330990	0,3 m pre-wired cable with 2 straight connectors, M12 5-pole
CJBE 3	1360960	3 m pre-wired cable with 2 straight connectors, M12 5-pole
CJBE 5	1360961	5 m pre-wired cable with 2 straight connectors, M12 5-pole
CJBE 10	1360962	10 m pre-wired cable with 2 straight connectors, M12 5-pole
CJBE 25	1360963	25 m pre-wired cable with 2 straight connectors, M12 5-pole