

SAFETY LIGHT CURTAINS

FOR MACHINES



Electronic Switches (I) Pvt. Ltd. presents Safety Light Curtains - Affordable safety solutions for your shop floor. Safety is the most integral part of working Environment. For over Three decades our products have ensured safety across millions of workplaces across India. Our products are designed for hands, fingers, body safety used in various machinery such as moulding machines, SPM Machines, Hydraulic & Pneumatic Power Press manufacturers etc.

FEATURES

Safety Light Curtains for
Finger, hand and body Safety
with Cross-beam features

Long Range Safety Light
Curtains for Conveyor
Application

Light Curtains for Height
Detection application

Diffuse Light Curtains for Area
Sensing Application

Retro-Reflective Light
Curtains

Light Curtains for Passage
Confirmation Application

For Bin Application
Picking Sensor for Pick to
Light Application

- Offers Safety Standard Type 4 when used with Controller.
- Easy to install & can be mounted in any position, Vertical / Horizontal.
- Non-Critical alignment between Emitter & Receiver.
- Blanking / By-Passing individual channel is provided .
- System operation is unaffected by mains power fluctuations.
- Machine OFF if screen is too dirty or oily.
- Barrier operates on cyclic scanning photo-electric infra-red techniques.
- Various barrier heights are available for covering 90 mm to 1890 mm .
- Higher covering heights available upon request.
- Use of solid state components & special construction technique ensures that barrier is not affected by normal vibrations & shocks.
- Sensor connections are provided through plug in connectors.
- Self Checking Circuitry with two outputs continuously monitors failure of any of the beam in the system and stop the machine if failure is detected.
- LED Indications are provided for status indication of each channel.
- LED indications are also provided for each output.
- Choice for suitable Control Unit available as per different working conditions.
- Flexible fixing arrangements to suit individual requirement.
- Increases productivity while maintaining required safety.

SENSOR SPECIFICATIONS

Series : LC / LX / FX / PX

Power Supply	: 12 - 24 Volts DC
Supply Protection	: Reverse Polarity Protected
Output	: Duel Output : PNP or NPN / NO or NC
Output Indications	: Through LEDs
Channel Indication	: LED indication for each channel
Response Time	: On to Off : 10 - 15 m sec. Off to On : 50 - 100 m sec
Restart	: Automatic
No of beams	: 6, 8, 10, 12,16, 20, 24, 32, 40, 48, 56, 64 nos.
Beam By Pass	: Provided in hand / body protection models
Protected Heights	: 90 - 1890 mm
Pitch offered	: 11 - 20 - 30 - 40 - 50 - 90 mm
Adjustable Range	: Up to 3 meters (Higher range up to 20 meters available)
Electrical Connections	: Plug in Connector for Emitter & Receiver
Standard Cable length	: 5 meters for emitter, 3 meters for receiver
Operating Temperature	: Up to 55 Degrees centigrade
Fastening Modes	: Slide Slot on the back with adjustable height
Cross Section	: 36 x 42 mm / 36 x 35mm
Applicable to	: Directly work with PLCs / Controllers
Suitable for	: Machines with quick emergency stop
Protections	: Output short circuit protected.
Vibration Resistance	: Amplitude : 0.75 mm (p) Freq : 10 - 55 Hzs Rate : 1 Octave / min
Operating ambient Light	: 500 Lux (max.) when source is places opposite to receiver : > 3000 lux when source placed at an angle of 20 degrees

CONTROLLERS



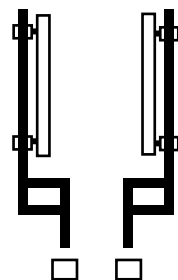
Control Unit : Wall Mount
Size: 235 x 120 x 50 mm
Model : 2CW



Control Unit : Panel Mount
Size : 96 x 96 x 120 mm
Model : 2CP



Control Unit : DIN Rail
Size : 100 x 70 x 114 mm
Model : 2CD



Mounting Stand
Model : MS

CLAMPS



Vibration Dampers
Model : VD



S-TYPE



S-TYPE



L-TYPE



L-TYPE

SAFETY LIGHT CURTAINS

Series : LC / LX



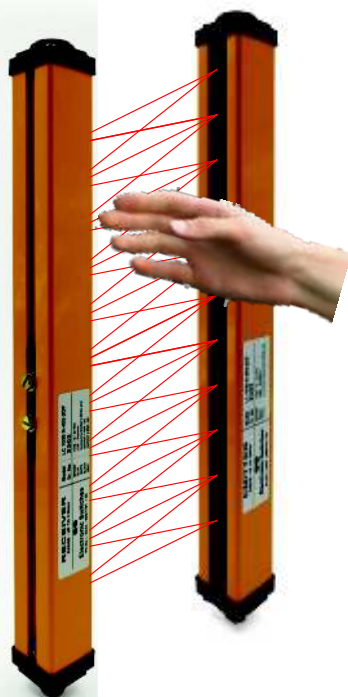
TYPE-4

IEC Standard:
IEC 61496-1-2

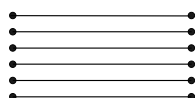
HAND Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC
Covered Range : LC : 300 mm - 3/5/10/15/20 mtr
LED Indication and By-Pass for each beam

Output : PNP / NPN - NO / NC
LX : 500 mm - 3/5/10/15/20 mtr
LX (Pitch50):1- 3/5/10/15/20 mtr

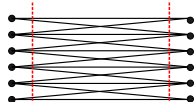


LC MODELS



Type : Parallel Beam
No of Beams : 6 nos
Active Beams: 6 nos
Min.Range : 300 mm

LX MODELS



Type: Cross Beam
No of Beams: 6 nos
Active Beams: 16 nos
Min.Range: 500 mm

Models Available in:

- CE - Type 4 : LC & LX Series with 2OP
- 2 OP (Two Outputs) All Series
- 1 OP (One Output) All Series

PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
New 140	LC 0820	8	LX 0820	22	20	235
150	LC 0630	6	LX 0630	16	30	245
180	LC 1020	10	LX 1020	28	20	295
200	LC 0640	6	LX 0640	16	40	295
210	LC 0830	8	LX 0830	22	30	290
New 220	LC 1220	12	LX 1220	34	20	315
250	LC 0650	6	LX 0650	16	50	345
New 260	LC 1420	14	LX 1420	40	20	355
270	LC 1030	10	LX 1030	28	30	365
280	LC 0840	8	LX 0840	22	40	365
300	LC 1620	16	LX 1620	46	20	395
330	LC 1230	12	LX 1230	34	30	410
New 340	LC 1820	18	LX 1820	52	20	435
350	LC 0850	8	LX 0850	22	50	435
360	LC 1040	10	LX 1040	28	40	455
380	LC 2020	20	LX 2020	58	20	475
New 390	LC 1430	14	LX 1430	40	30	470
New 420	LC 2220	22	LX 2220	64	20	515
440	LC 1240	12	LX 1240	34	40	525
450	LC 1630	16	LX 1630	46	30	530
460	LC 2420	24	LX 2420	70	20	555
500	LC 2620	26	LX 2620	76	20	595
New 510	LC 1830	18	LX 1830	52	30	590
New 520	LC 1440	14	LX 1440	40	40	605
New 540	LC 2820	28	LX 2820	82	20	635
550	LC 1250	12	LX 1250	34	50	635
570	LC 2030	20	LX 2030	58	30	650
New 580	LC 3020	30	LX 3020	88	20	675
600	LC 1640	16	LX 1640	46	40	685
620	LC 3220	32	LX 3220	94	20	715
New 630	LC 2230	22	LX 2230	64	30	710
New 650	LC 1450	14	LX 1450	40	50	735
New 660	LC 3420	34	LX 3420	100	20	755
New 680	LC 1840	18	LX 1840	52	40	765
690	LC 2430	24	LX 2430	70	30	770
700	LC 3620	36	LX 3620	106	20	795
New 740	LC 3820	38	LX 3820	112	20	835
New 750	LC 2630	26	LX 2630	76	30	830

SAFETY LIGHT CURTAINS

Series : LC / LX



TYPE-4

IEC Standard:
IEC 61496-1-2

HAND Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC

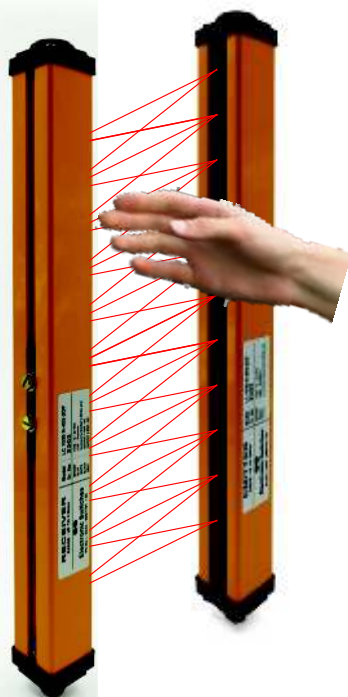
Covered Range : LC : 300 mm - 3/5/10/15/20 mtr

LED Indication and By-Pass for each beam

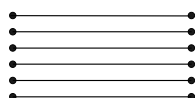
Output : PNP / NPN - NO / NC

LX : 500 mm - 3/5/10/15/20 mtr

LX (Pitch50):1- 3/5/10/15/20 mtr

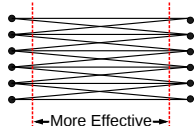


LC MODELS



Type : Parallel Beam
No of Beams : 6 nos
Active Beams: 6 nos
Min.Range : 300 mm

LX MODELS



Type: Cross Beam
No of Beams: 6 nos
Active Beams: 16 nos
Min.Range: 500 mm

Models Available in:

- CE - Type 4 : LC & LX Series with 2OP
- 2 OP (Two Outputs) All Series
- 1 OP (One Output) All Series

PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
750	LC 1650	16	LX 1650	46	50	835
760	LC 2040	20	LX 2040	58	40	845
New 780	LC 4020	40	LX 4020	118	20	875
New 810	LC 2830	28	LX 2830	82	30	890
New 820	LC 4220	42	LX 4220	124	20	915
New 840	LC 2240	22	LX 2240	64	40	925
New 850	LC 1850	18	LX 1850	52	50	935
New 860	LC 4420	44	LX 4420	130	20	955
New 870	LC 3030	30	LX 3030	88	30	950
New 900	LC 4620	46	LX 4620	136	20	995
920	LC 2440	24	LX 2440	70	40	1005
930	LC 3230	32	LX 3230	94	30	1010
New 940	LC 4820	48	LX 4820	142	20	1035
950	LC 2050	20	LX 2050	58	50	1035
New 980	LC 5020	50	LX 5020	148	20	1075
New 990	LC 3430	34	LX 3430	100	30	1070
New 1000	LC 2640	26	LX 2640	76	40	1085
New 1020	LC 5220	52	LX 5220	154	20	1115
1050	LC 3630	36	LX 3630	106	30	1130
New 1050	LC 2250	22	LX 2250	64	50	1135
New 1060	LC 5420	54	LX 5420	160	20	1155
1080	LC 2840	28	LX 2840	82	40	1165
New 1100	LC 5620	56	LX 5620	166	20	1195
New 1110	LC 3830	38	LX 3830	112	30	1190
New 1140	LC 5820	58	LX 5820	172	20	1235
1150	LC 2450	24	LX 2450	70	50	1235
New 1160	LC 3040	30	LX 3040	88	40	1245
New 1170	LC 4030	40	LX 4030	118	30	1250
New 1180	LC 6020	60	LX 6020	178	20	1275
New 1220	LC 6220	62	LX 6220	184	20	1315
New 1230	LC 4230	42	LX 4230	124	30	1310
1240	LC 3240	32	LX 3240	94	40	1325
New 1250	LC 2650	26	LX 2650	76	50	1335
New 1260	LC 6420	64	LX 6420	190	20	1355
New 1290	LC 4430	44	LX 4430	130	30	1370
New 1300	LC 6620	66	LX 6620	196	20	1395
New 1320	LC 3440	34	LX 3440	100	40	1405
New 1340	LC 6820	68	LX 6820	202	20	1435

SAFETY LIGHT CURTAINS

Series : LC / LX



TYPE-4

IEC Standard:
IEC 61496-1-2

HAND Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC

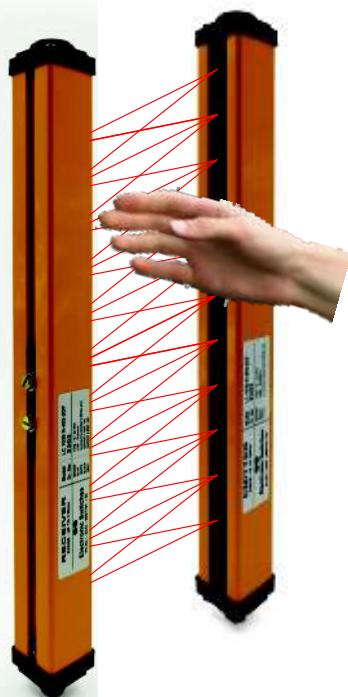
Covered Range : LC : 300 mm - 3/5/10/15/20 mtr

LED Indication and By-Pass for each beam

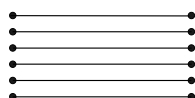
Output : PNP / NPN - NO / NC

LX : 500 mm - 3/5/10/15/20 mtr

LX (Pitch50):1- 3/5/10/15/20 mtr

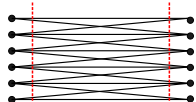


LC MODELS



Type : Parallel Beam
No of Beams : 6 nos
Active Beams: 6 nos
Min.Range : 300 mm

LX MODELS



Type: Cross Beam
No of Beams: 6 nos
Active Beams: 16 nos
Min.Range: 500 mm

Models Available in:

- CE - Type 4 : LC & LX Series with 2OP
- 2 OP (Two Outputs) All Series
- 1 OP (One Output) All Series

PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
New 1350	LC 4630	46	LX 4630	136	30	1430
New 1350	LC 2850	28	LX 2850	82	50	1435
New 1380	LC 7020	70	LX 7020	208	20	1475
1400	LC 3640	36	LX 3640	106	40	1485
1410	LC 4830	48	LX 4830	142	30	1490
New 1420	LC 7220	72	LX 7220	214	20	1515
New 1450	LC 3050	30	LX 3050	88	50	1535
New 1470	LC 5030	50	LX 5030	148	30	1550
New 1480	LC 3840	38	LX 3840	112	40	1565
New 1530	LC 5230	52	LX 5230	154	30	1610
New 1550	LC 3250	32	LX 3250	94	50	1635
New 1560	LC 4040	40	LX 4040	118	40	1645
New 1590	LC 5430	54	LX 5430	160	30	1670
New 1640	LC 4240	42	LX 4240	124	40	1725
New 1650	LC 5630	56	LX 5630	166	30	1730
New 1650	LC 3450	34	LX 3450	100	50	1735
New 1710	LC 5830	58	LX 5830	172	30	1790
New 1720	LC 4440	44	LX 4440	130	40	1805
New 1750	LC 3650	36	LX 3650	106	50	1835
New 1770	LC 6030	60	LX 6030	178	30	1850
New 1800	LC 4640	46	LX 4640	136	40	1885
New 1830	LC 6230	62	LX 6230	184	30	1910
New 1850	LC 3850	38	LX 3850	112	50	1935
1880	LC 4840	48	LX 4840	142	40	1965
1890	LC 6430	64	LX 6430	190	30	1970
New 1950	LC 6630	66	LX 6630	196	30	2030
New 1950	LC 4050	40	LX 4050	118	50	2035
New 1960	LC 5040	50	LX 5040	148	40	2045
New 2010	LC 6830	68	LX 6830	202	30	2090
New 2040	LC 5240	52	LX 5240	154	40	2125
New 2050	LC 4250	42	LX 4250	124	50	2135
New 2070	LC 7030	70	LX 7030	208	30	2150
New 2120	LC 5440	54	LX 5440	160	40	2205
New 2150	LC 4450	44	LX 4450	130	50	2235
New 2200	LC 5640	56	LX 5640	166	40	2285
New 2250	LC 4650	46	LX 4650	136	50	2335
New 2280	LC 5840	58	LX 5840	172	40	2365
New 2350	LC 4850	48	LX 4850	142	50	2435

SAFETY LIGHT CURTAINS

Series : LC / LX



TYPE-4

IEC Standard:
IEC 61496-1-2

HAND Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC

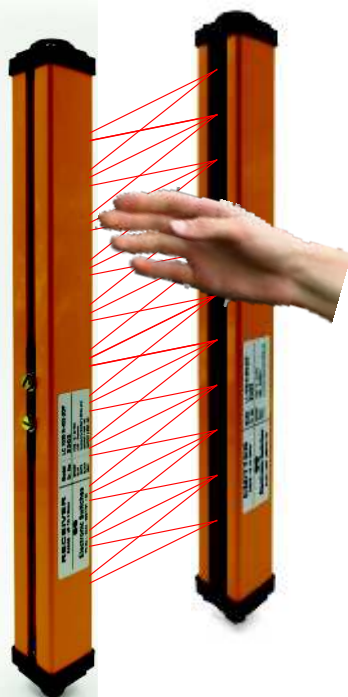
Covered Range : LC : 300 mm - 3/5/10/15/20 mtr

LED Indication and By-Pass for each beam

Output : PNP / NPN - NO / NC

LX : 500 mm - 3/5/10/15/20 mtr

LX (Pitch50):1- 3/5/10/15/20 mtr



PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
New 2360	LC 6040	60	LX 6040	178	40	2445
New 2440	LC 6240	62	LX 6240	184	40	2525
New 2450	LC 5050	50	LX 5050	148	50	2535
New 2520	LC 6440	64	LX 6440	190	40	2605
New 2550	LC 5250	52	LX 5250	154	50	2635
New 2600	LC 6640	66	LX 6640	196	40	2685
New 2650	LC 5450	54	LX 5450	160	50	2735
New 2680	LC 6840	68	LX 6840	202	40	2765
New 2750	LC 5650	56	LX 5650	166	50	2835
New 2760	LC 7040	70	LX 7040	208	40	2845
New 2850	LC 5850	58	LX 5850	172	50	2935
New 2950	LC 6050	60	LX 6050	178	50	3035
New 3050	LC 6250	62	LX 6250	184	50	3135
New 3150	LC 6450	64	LX 6450	190	50	3235
New 3250	LC 6650	66	LX 6650	196	50	3335
New 3350	LC 6850	68	LX 6850	202	50	3435
New 3450	LC 7050	70	LX 7050	208	50	3535
New 3550	LC 7250	72	LX 7250	214	50	3635

FINGER PROTECTION : MODELS WITH 2 OUTPUTS

Supply : 12 - 24 Volts DC, Covered Range : 500 - 3000mm

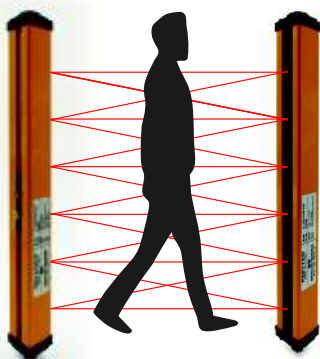
LED Indication for Output, Output : PNP / NPN - NO / NC



PROTECTED HEIGHT	PARALLEL BEAM	CROSS BEAM		PITCH	OVERALL HEIGHT
mm		Models	Beam	mm	mm
100	NA	FX 1011	28	11	205
165	NA	FX 1611	46	11	275
245	NA	FX 2411	70	11	370
340	NA	FX 3211	94	11	455
430	NA	FX 4011	118	11	545
515	NA	FX 4811	142	11	630
605	NA	FX 5611	166	11	720
695	NA	FX 6411	190	11	805
781	NA	FX 7211	213	11	905

BODY PROTECTION AREA SENSOR

Series : LC / LX / DA

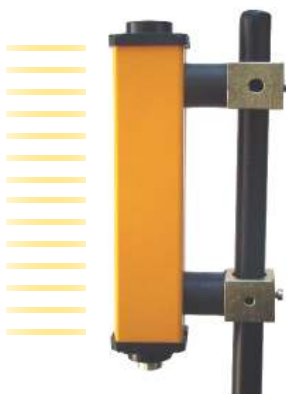


Supply : 12 -24 Volts DC, Covered Range : 500 - 3000 mm,
LED indication and Beam By-Pass for each channel, 1OP / 2OP Output
Output : PNP / NPN - NO / NC

PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
mm	Models	Beam	Models	Beam	mm	mm
270	LC 0490	4	LX 0490	10	90	405
630	LC 0890	8	LX 0890	22	90	765
990	LC 1290	12	LX 1290	34	90	1125
1350	LC 1690	16	LX 1690	46	90	1485
1710	LC 2090	20	LX 2090	58	90	1845
2070	LC 2490	24	LX 2490	70	90	2205
2430	LC 2890	28	LX 2890	82	90	2555

DIFFUSE AREA SENSOR

Supply : 12 -24 Volts DC, Covered Range : Up to 2000 mm
PNP NO / PNP NC Output, LED indication for output



PROTECTED HEIGHT	DIFFUSED SCAN		PITCH	OVERALL HEIGHT
mm	Models	Beam	mm	mm
100	DA 0620	6	20	185
280	DA 0840	8	40	370
350	DA 0850	8	50	440
270	DA 1030	10	30	365
440	DA 1240	12	40	530
600	DA 1640	16	40	685
750	DA 1650	16	50	840
760	DA 2040	20	40	855
920	DA 2440	24	40	1010
1080	DA 2840	28	40	1170
1150	DA 2450	24	50	1240
1240	DA 3240	32	40	1335
1550	DA 3250	32	50	1640

HAND PROTECTION AREA SENSOR

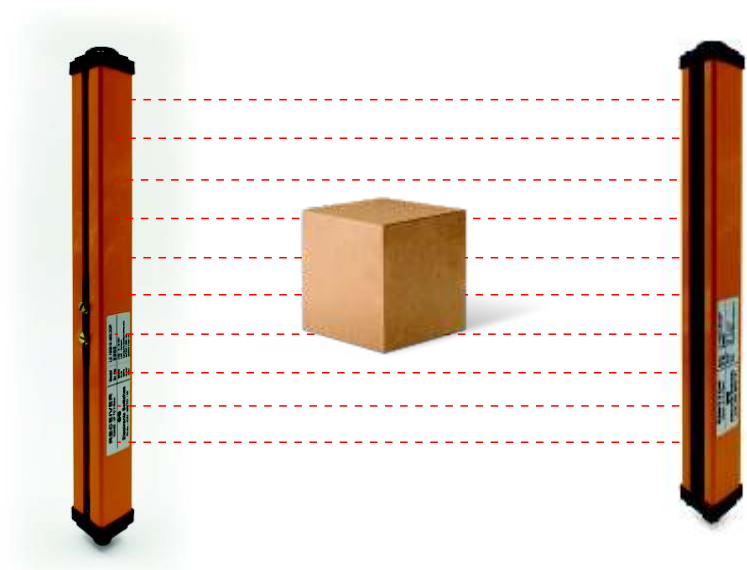
Supply : 12 -24 Volts DC, Covered Range : Up to 500 mm
PNP / NPN - NO / NC Output, LED indication for output



PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
mm	Models	Beam	Models	Beam	mm	mm
90	LC 0430 - 1OP	4	LX 0430 - 1OP	10	30	180
100	LC 0620 - 1OP	6	LX 0620 - 1OP	16	20	185
120	LC 0440 - 1OP	4	LX 0440 - 1OP	10	40	210
150	LC 0450 - 1OP	4	LX 0450 - 1OP	10	50	240

HEIGHT PROFILE SENSOR

Series : HS / LC



Supply : 12 -24 Volts DC, Covered Range : 500 - 3000 mm,

Output : BCD

LED indication and Beam By-Pass for each channel.

PROTECTED HEIGHT	PARALLEL BEAM		PITCH	OVERALL HEIGHT
mm	Models	Beam	mm	mm
375	HS 0675	6	75	560
375	HS 1625	16	25	560
750	HS 3125	31	25	1060

LONG RANGE LIGHT CURTAIN

Supply : 12 -24 Volts DC, Covered Range : 3 / 10 / 15 / 20 / 30 / 40 mtr

LED indication for each channel, Output : PNP / NPN - NO / NC,



PROTECTED HEIGHT	PARALLEL BEAM		CROSS BEAM		PITCH	OVERALL HEIGHT
mm	Models	Beam	Models	Beam	mm	mm
270	LC 0490	4	LX 0490	10	90	405
630	LC 0890	8	LX 0890	22	90	765
990	LC 1290	12	LX 1290	34	90	1125
1350	LC 1690	16	LX 1690	46	90	1485
1710	LC 2090	20	LX 2090	58	90	1845
2070	LC 2490	24	LX 2490	70	90	2205
2250	LC 2690	26	LX 2690	76	90	2385
2430	LC 2890	28	LX 2890	82	90	2555
2610	LC 3090	30	LX 3090	88	90	2715
2790	LC 3290	32	LX 3290	94	90	2925
3150	LC 3690	36	LX 3690	106	90	3285

HOW TO ORDER

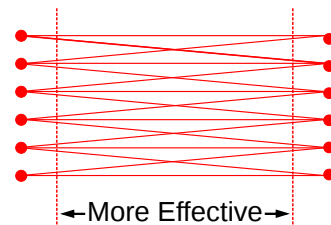
Model	LC	-	1030	-	4	-	03	-	20P	-	D
	LC LX FX		MODELS		4 3 2 1		03 05 10 15 20		CE TYPE 4 2OP 1OP		D CW CP CD
	SLC SLX DA RLC								2OP 1OP		
SLC/ SLX LC LX FX DA / RLC	SLEEK PARALLEL CROSS CROSS DIFFUSE/RETRO										
MODELS	SAFETY LIGHT CURTAIN										
4 3 2 1	OUTPUT - PNP - NC OUTPUT - PNP - NO OUTPUT - NPN - NC OUTPUT - NPN - NO										
03 05 10 15 20	RANGE - 03 METERS RANGE - 05 METERS RANGE - 10 METERS RANGE - 15 METERS RANGE - 20 METERS										
CE TYPE 4 2 OP 1 OP	OUTPUT - 2 OUTPUTS OUTPUT - 2 OUTPUTS OUTPUT - 1 OUTPUT										
D CW CP CD	DC TYPE - BUILT-IN CONTROLLER - OUTPUT PNP OR NPN CONTROL UNIT - WALL MOUNT - 220 VAC - RELAY OUTPUT CONTROL UNIT - PANEL MOUNT - 220 VAC - RELAY OUTPUT CONTROL UNIT - DIN MOUNT - 220 VAC - RELAY OUTPUT										

LC MODELS



Type: Parallel Beam | No of Beams: 6 nos
Active Beams: 6 nos | Min.Range: 300 mm

LX MODELS



Type: Cross Beam | No of Beams: 6 nos
Active Beams:16 nos | Min.Range: 500 mm

PICK TO LIGHT Model : PAS 0523



Electronic Switches offers Pick to Light sensor for assembly or sub-assembly operation. These devices together form a system that helps Industrial automation manufacturer to reduce risk of errors in assembly process, boosting product quality and improving time required for production.

- 16mm Slim ABS plastic enclosure / Fast Response
- Easy mounting with flat base / LED Indication at side & at front
- PICK LED - Green LED / Sense LED - Red LED
- Range upto 1.5 mtr
- Microcontroller based IR Technology
- With M 12 Male connector at end of 6 inch cable / 2 mtr cable
- Elimination of Synch wire makes installation easy



AREA SENSORS - Model : AS 1606 & AS 0523



AS Series Area Sensors feature a flat and compact body size made of ABS Plastic. The sensors use high performance.

MODELS	AS 1606	AS 0525
No. of Beams	16	5
Pitch	6.2mm	23mm
Protected Height	92mm	92mm
Overall Height	127mm	127mm
Sensing Range	1.5 meter	1.5 meter

PICK TO LIGHT SYSTEM



Electronic Switches offers PICK TO LIGHT (PTL) system for various Assembly Line operations, Warehousing Solutions, or Large Factory Store operations. System operates with micro-controller based state of arts devices to ensure smooth and error free operations. Pick To Light devices are used with Computer based System, PLC or dedicated custom build controller.

Pick to Light (PTL) devices uses standard RS 485 MODBUS RTU protocol to communicate with master controller (Computer / PLC /Dedicated Controller) Normally input devices such as Bar code reader are connected to Master Controller. Based on the input received to the Master, it will switch ON light indication and display the quantity of item to be picked. This will indicate operator to pick material from that particular bin.

PAPER CUTTING MACHINE CONTROLLER



Model : PCM 03 / PCM 04 : For 3 / 4 beams
 Power Supply : 220 VAC or 110 VAC , Output : Relay Contacts @ 2 A (max),
 Controller : Metal Enclosure, Sensors : 18D x 35L (mm) , Non critical alignment
 Range : 3 Meters (max) , LED indication for each channel,
 By Pass switches for each beam, Total Guard By-Pass for unit

TWO HAND SAFETY CONTROLLER



Supply : 220 Volts AC, Output : Relay Contacts , Housing : Wall Mount or DIN Rail Used for Safety of Operator working on Machines, Also used on Mechanical Rolling Key Power Presses

PRESSURE SENSITIVE SAFETY MATS



SM MODELS



Max Contact Rating :200 mA
 Max Switching Voltage:10-30 VDC
 Cable :Pre Wired- 1 meter
 Maximum Weight :100 KG
 Thickness :10mm
 Dimensions :As per Chart
 Contact :Normally Open Type
 Connections :In series with Load

CSM MODELS



Rubber Mat : Anti-Skid Coined
 Max Contact Rating : 200 mA
 Max Switching Voltage: 10-30 VDC
 Cable : 1 meter
 Maximum Weight : 100 KG
 Thickness : 15mm
 Dimensions : As per Chart
 Contact : Normally Open
 Connections : In series with Load

INTELLIGENT CONTROLLER FOR SERIES CONNECTION



This Controller is for Series Models

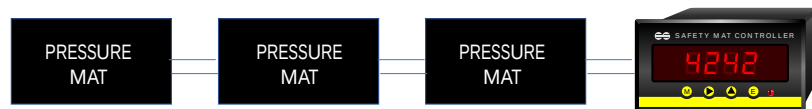
Power - 230 V AC | Panel Mount Controller | Display : ½ Inch Seven segment display

Dimensions - 48 x 96 x 110 mm | Display will indicate which mat has been pressed

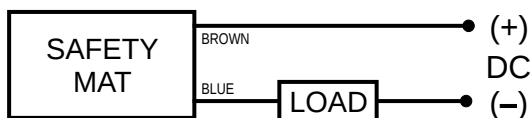
Advance Teach Facility is given for mat connection | Input - From safety mat in series connection

Output 1 - Relay1 NC-C-NO This output will be activated when any mat is pressed.

Output 2 - Relay 2 NC-C-NO This output will be ON if any of the interconnecting cable gets open .

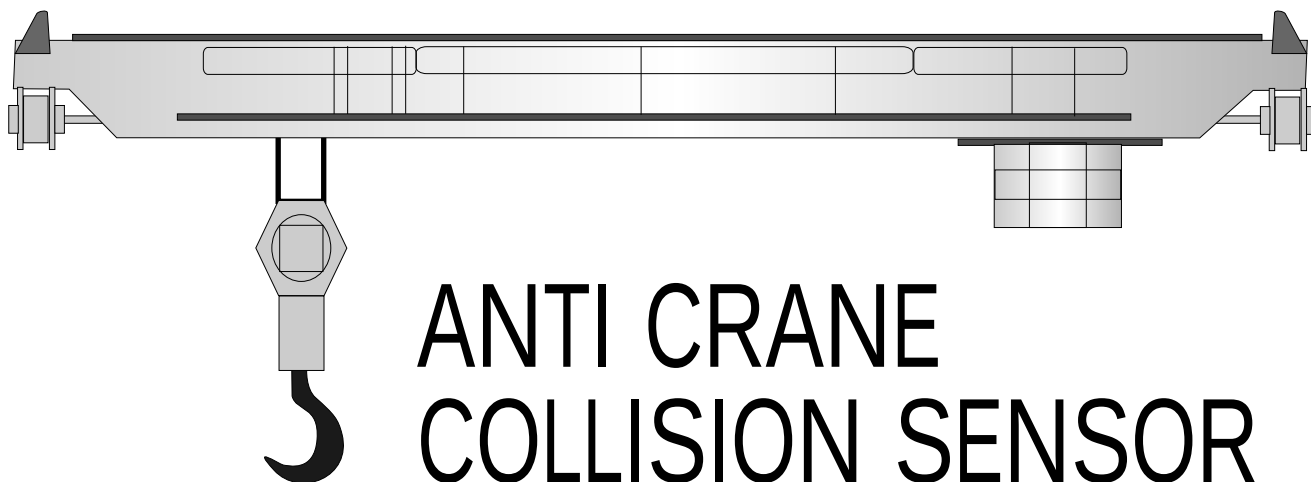


WIRING DIAGRAM :



MODEL SELECTION CHART

Sr. No.	Model	Length (L)	Width (W)	Height (H)
1	SM 520 X 390	520	390	10
2	SM 520 X 780	520	780	10
3	SM 750 X 750	750	750	10
4	SM 1000 X 500	1000	500	10
5	CSM 520 X 390	520	390	15
6	CSM 520 X 780	520	780	15
7	CSM 750 X 750	750	750	15
8	CSM 1000 X 500	1000	500	15



Electronic Switches offers Anti Crane Collision Switch for two over head cranes on the same rail. These units are installed on two cranes on the same rail approaching each other. With these units, the two cranes on the same rail will never collide with each other & thus the damage caused due to collision can be avoided. The minimum distance in between two cranes can be set and will always be maintained. The cranes will be able to move away from each other but not closer.

DUST-PROOF HOUSING (DP)	Model : ACC 03 Model : ACC 10 / 15	Model : ACC 102 (2 Set Points)	Model : ACC 102 LS
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(275 x 160 x 90 mm)



SPECIFICATIONS			
Model :	Model : ACC 03 / 10 / 15 / 20	Model : ACC 102 : 2 set Points	Model : ACC 102 LS : 2 set Points
Range:	3 / 10 / 15 / 20 Meters	8 and 10 Meters	10 Meters
Supply Voltage :	110 V AC or 220 V AC (User Selectable)	110 V AC or 220 V AC (User Selectable)	110V AC or 220 Volts (User Selectable)
Supply type :	Fixed supply voltage	Fixed supply voltage	Fixed supply voltage
Laser Alignment tool :	For Alignment of sensor and reflector	For Alignment of sensor and reflector	Laser Distance Sensor
No of set points :	Single Set Point	Two Set Points independently adjustable	Two Set Point
No of output / Relay :	Single Output / Single Relay	Two Outputs / Two Relays	Two Output / Two Relay
Output :	Potential Free Relay Contacts	Potential Free Relay Contacts	Potential Free Relay Contacts
Contacts Rating :	3 Amps (max.) at 220 V AC	3 Amps (max.) at 220 V AC	3 Amps (max.) at 220 V AC
Range Adjustment :	Provided (up to 50 % approx.)	Provided (up to 50 % approx.)	Provided
Adjustment through :	POT	POT	Distance setting - TEACH type
Reflector size :	130 x 75 mm	130 x 75 mm	Without Reflector
Dimensions :	180 mm X 145 mm X 55 mm	180 mm X 145 mm X 55 mm	140 x 150 x 110mm
Housing :	Metal Housing	Metal Housing	Metal Housing
Supply Available :	24V DC / 24V AC / 48V AC	24V DC / 24V AC / 48V AC	24V DC / 24V AC / 48V AC

Working Principle : This is used for Two overhead cranes on the same rail. This model is suitable for 3 meters or 10 meters range. Output is offered through relay contacts which can be interlocked with coil of contactor in respective direction. Alignment of Sensor and Reflector is very easy.

This is used for Two overhead cranes on the same rail. This model is suitable for 10 meters. There are two outputs. One output can be used for audio alarm for operator and another output is interlocked with coil of contactor in respective direction.

It displays measurement in centimeter. unit has TEACH type facility for Range adjustment, No reflector requirement. Unit is with 2 set point and 2 relay output. Display will show actual distance