

SAFETY LIGHT CURTAINS FOR POWER PRESSES

Features

- 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 through software.
- 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.

Specifications

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, 16, 24, 32 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
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

Accessories



Control Unit : Wall Mount
(Code : 2CW)



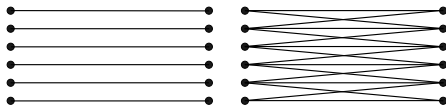
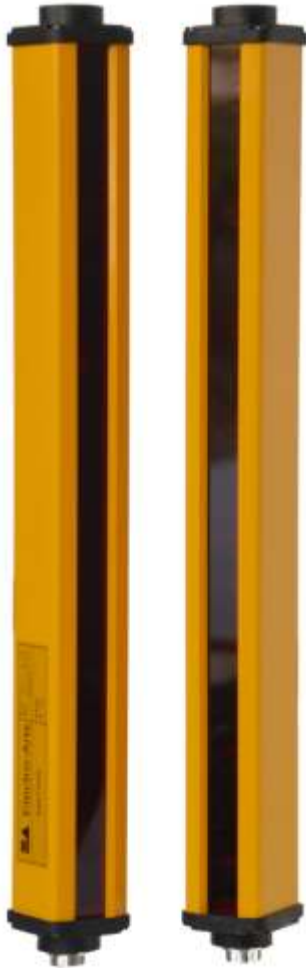
Control Unit : Panel Mount
(Code : 2CP)



Control Unit : DIN Mount
(Code : 2CD)



All the models are also available with CE mark. Replace 2OP with CE for models with CE certification



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

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

HAND Protection : Models with 2 Outputs

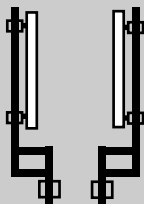
Supply : 12 - 24 Volts DC
Covered Range : 300 - 3000 mm, Duel PNP Output
LED Indication and By-Pass facility for each beam

Protected Height mm	Parallel Beam		Cross Beam		Pitch mm	Overall Height mm
	Models	Beam	Models	Beam		
150	LC 0630 - 2OP	6	LX 0630 - 2OP	16	30	245
180	LC 1020 - 2OP	10	LX 1020 - 2OP	28	20	305
200	LC 0640 - 2OP	6	LX 0640 - 2OP	16	40	295
210	LC 0830 - 2OP	8	LX 0830 - 2OP	22	30	295
250	LC 0650 - 2OP	6	LX 0650 - 2OP	16	50	345
270	LC 1030 - 2OP	10	LX 1030 - 2OP	28	30	365
280	LC 0840 - 2OP	8	LX 0840 - 2OP	22	40	370
300	LC 1620 - 2OP	16	LX 1620 - 2OP	46	20	435
350	LC 0850 - 2OP	8	LX 0850 - 2OP	22	50	440
360	LC 1040 - 2OP	10	LX 1040 - 2OP	28	40	455
380	LC 2020 - 2OP	20	LX 2020 - 2OP	58	20	645
450	LC 1050 - 2OP	10	LX 1050 - 2OP	28	50	545
450	LC 1630 - 2OP	16	LX 1630 - 2OP	46	30	535
500	LC 2620 - 2OP	26	LX 2620 - 2OP	76	20	610
600	LC 1640 - 2OP	16	LX 1640 - 2OP	46	40	685
620	LC 3220 - 2OP	32	LX 3220 - 2OP	94	20	715
690	LC 2430 - 2OP	24	LX 2430 - 2OP	70	30	770
750	LC 1650 - 2OP	16	LX 1650 - 2OP	46	50	840
780	LC 4020 - 2OP	40	LX 4020 - 2OP	118	30	885
920	LC 2440 - 2OP	24	LX 2440 - 2OP	70	40	1005
930	LC 3230 - 2OP	32	LX 3230 - 2OP	94	30	1010
1150	LC 2450 - 2OP	24	LX 2450 - 2OP	70	50	1250
1170	LC 4030 - 2OP	40	LX 4030 - 2OP	118	30	1250
1240	LC 3240 - 2OP	32	LX 3240 - 2OP	94	40	1325
1410	LC 4830 - 2OP	48	LX 4830 - 2OP	142	30	1490
1550	LC 3250 - 2OP	32	LX 3250 - 2OP	94	50	1640
1645	LC 4040 - 2OP	40	LX 4040 - 2OP	118	40	1650
1650	LC 5630 - 2OP	56	LX 5630 - 2OP	166	30	1725
1890	LC 6430 - 2OP	64	LX 6430 - 2OP	190	30	1965

FINGER Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC
Covered Range : 150 - 3000 mm, Duel PNP Output
LED Indication for final output

Protected Height mm	Cross Beam		Pitch mm	Overall Height mm
	Models	Beam		
100	FX 1011 - 2OP	28	11	200
165	FX 1611 - 2OP	46	11	240
250	FX 2411 - 2OP	70	11	340
355	FX 3211 - 2OP	94	11	445
530	FX 4811 - 2OP	142	11	620
705	FX 6411 - 2OP	190	11	800



Mounting Stand
(Code : MS)



Vibration Dampers
(Code : VD)

SAFETY LIGHT CURTAINS ANTI - CRANE COLLISION SENSORS

SAFETY LIGHT CURTAINS

BODY PROTECTION : Models with 2 Outputs

Supply : 12 - 24 volts DC

Covered Range : 500 - 3000 mm, Duel PNP Output

LED Indication and Beam By-Pass for each channel

Protected Height mm	Parallel Beam		Cross Beam		Pitch mm	Overall Height mm
	Models	Beam	Models	Beam		
270	LC 0490 - 2OP	4	LX 0490 - 2OP	14	90	360
630	LC 0890 - 2OP	8	LX 0890 - 2OP	22	90	720
990	LC 1290 - 2OP	12	LX 1290 - 2OP	34	90	1080
1350	LC 1690 - 2OP	16	LX 1690 - 2OP	46	90	1440
1710	LC 2090 - 2OP	20	LX 2090 - 2OP	58	90	1800

DIFFUSED AREA SENSOR

Supply : 12 - 24 Volts DC

Covered Range : UPTO 1000 mm, Duel PNP Output

LED Indication for final output

Protected Height mm	Diffuse Scan Models	Overall Height
350	DA 0850	435
750	DA 1650	835
1150	DA 2450	1245
1550	DA 3250	1645
1950	DA 4050	2055



OTHER APPLICATIONS

HEIGHT SENSOR	SAFETY GUARD : PAPER CUTTING M/C	BIN SENSOR
Model : HS xxxx	Model : PCM 03 : For 3 beams Model : PCM 04 : For 4 beams	



Sensor Supply : 24V DC	Power Supply : 220 VAC or 110 VAC	Power Supply : 12 - 24 VDC
No of Beams : As per requirement	Output : Relay Contacts @ 2 A (max)	Output : PNP - NO
Pitch : 20, 25, 30, 40, 50, 90. mm	Controller : Metal Enclosure	Range : 300 mm with Reflector
Output : 5 Bit / Individual / Analogue	Sensors : 18D x 75L (mm)	Cross section : 36 x 42 mm (Aluminum)
Used for : Conveyer System / Vehicle	Non critical alignment	Indications : At the Top of Sensor
Height measurement / Object height	Range : 3 Meters (max)	Protection : Reverse Polarity/Short Circuit
measurement for automatic storage	LED indication for each channel	Application : Used in Pokayoka system
system / Painting Booths to control	By Pass switches for each beam	which allows Operator to pick up the
spray guns as per height of object	Total Guard By-Pass for unit available	material from next correct bin.