

ACCESSORIES



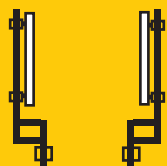
Control Unit : Wall Mount (code : 2CW)
(Place this code after model of Safety Light Curtain such as LC 1030 - 2OP - 2CW)
This is used with Sensors of Safety Light Curtains. It works on 220 volts AC supply and offers potential free relay output for further interlock. This can be fixed on the wall with two bolts/screws. It has LED indications for SENSE and OUTPUT also has facility for total Unit By-Pass with light indication. Dimensions: 235 x 120 x 50 mm. Housing : Metal



Control Unit : Panel Mount (code : 2CP)
(Place this code after model of Safety Light Curtain such as LC 1030 - 2OP - 2CP)
This is used with Sensors of Safety Light Curtains. It works on 220 volts AC supply and offers potential free relay output for further interlock. This can be fixed on the panel door with two fixing clamps. It has LED indications for SENSE and OUTPUT also has facility for total Unit By-Pass with light indication. Dimensions: 96 x 96 x 150 mm. Housing : Metal



Control Unit : DIN Mount (code : 2CD)
(Place this code after model of Safety Light Curtain such as LC 1030 - 2OP - 2CD)
This is used with Sensors of Safety Light Curtains. It works on 220 volts AC supply and offers potential free relay output for further interlock. This is suitable for DIN RAIL mounting and can be fixed inside control panel. Terminals are provided for Unit By-Pass on Control Unit. Dimensions: 61 x 71 x 110 mm. Housing : Plastic



Mounting Stand :
Mounting Stand is suitable for fixing Light Curtain on the machine. With mounting stand, height and location of sensors can be adjusted very easily. It is made from 19 mm dia steel pipe (powder coated) and comes with support at the bottom as well as fixing supports for sensors. This allows rotation of Light Curtain / Safety Guard around its longitudinal axis, as well as the adjustment of its vertical and horizontal positions.



Vibration Dampers :
The Vibration Dampers are used for fixing the Light Curtain Sensors are specially designed to avoid mechanical damage to Safety Light Curtains when installed on machines which has high vibration level. A set consists of two pieces and TWO sets will be required for fixing light curtains, one set for emitter and one set for receiver. Thread size is 5 mm and available thread length is 4.5 mm.

All the Safety Light Curtains with CE mark conforms to following standards :
(IEC 61496 : A Safety Standard for Electrosensitive Protective Equipments)



For Models
with CE Certification

- | | | |
|---|------------------------------------|-----------------|
| 1 | Electrical Fast Transients / Burst | IEC 61000-4-4 |
| 2 | Electrical Fast Transients / Surge | IEC 61000-4-5 |
| 3 | Electromagnetic Field | IEC 61000-4-3 |
| 4 | Conducted Disturbance | IEC 61000-4-6 |
| 5 | Electro Static Discharge | IEC 61000-4-2 |
| 6 | Mechanical Vibration | IEC 61000-2-6 |
| 7 | Magnetic Field Immunity Test | IEC 61000-4-8 |
| 8 | Radiated Emission (RE) | EN 61326-1:2005 |



ELECTRONIC SWITCHES (I) PVT. LTD.

Plot No. K-11, MIDC Area, Ambad, Nashik 422 010
Ph.No.: (0253) 6697701, 6603954, Fax No.: 2380918
switches_nsk@sancharnet.in / electronic.switches@gmail.com
www.electronicswitchesindia.in / com



SAFETY LIGHT CURTAIN



Electro-Arts offers Safety Light Curtains / Safety Guards based on infra-red techniques. These are also known as Infra red barriers & are designed to ensure maximum safety in dangerous operating areas on automatic machines, plants, power presses, insertion presses, shears, bending machines, injection molding m/s etc in continuous operation. Using these invisible barriers, perfect plant or machine safety is insured with no loss of productivity, which may even be increased with considerable improvements in working conditions.



ELECTRONIC SWITCHES (I) PVT. LTD.

An ISO 9001 - 2008 Company

FOR POWER PRESSES

Features

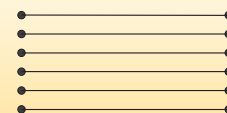
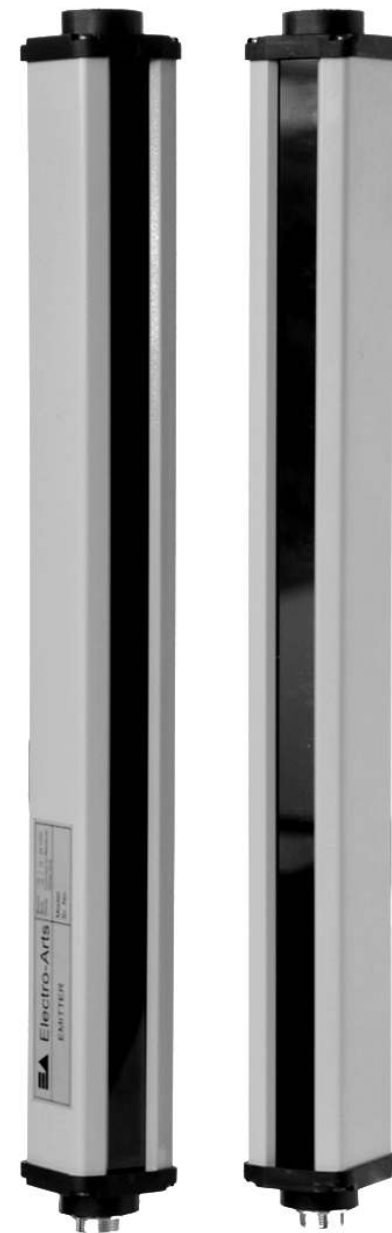
- Easy to install & may be mounted in any position. Vertical or Horizontal.
- Non-critical alignment between Emitter & Receiver.
- Blanking / by-passing individual channel is provided through software.
- Unaffected by mains power fluctuations. Machine OFF if screen is too dirty or oily.
- Barrier operates on cyclic scanning photo-electric infra-red techniques.
- Various barrier range heights are available from covering 90 mm to 1710 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.
- For Sensors, 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 detected.
- LED Indications are provided for status indication of each channel.
- LED indication for output and sense.
- Choice for suitable Control Unit available to suit different working conditions.
- Flexible fixing arrangements to suit individual requirement.
- Increases productivity while maintaining required safety.

Specifications

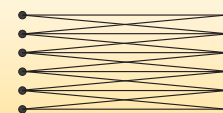
Power Supply	:	12 - 24 Volts DC
Supply Protection	:	Reverse Polarity Protected
Output	:	PNP - NC + PNP - NC
Output Indications	:	Through LEDs
Channel Indication	:	LED indication for each channel
Response Time	:	On to Off : 10 - 15 m sec. Off to On : 50 - 100 m sec
Restart	:	Automatic
No of beams	:	6, 8, 10, 16, 24, 32 nos.
Beam By Pass	:	Provided in hand/body protection models
Protected Heights	:	90 - 1710 mm
Pitch offered	:	11 - 20 - 30 - 40 - 50 - 90 mm
Adjustable Range	:	Up to 3 meters (Higher range 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



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



Type : Cross Beam
No of Beams : 6 nos
Active Beams:16 nos

2 Output Models for HAND Protection

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	240
180	LC 1020 - 2OP	10	LX 1020 - 2OP	28	20	300
200	LC 0640 - 2OP	6	LX 0640 - 2OP	16	40	290
210	LC 0830 - 2OP	8	LX 0830 - 2OP	22	30	290
250	LC 0650 - 2OP	6	LX 0650 - 2OP	16	50	340
270	LC 1030 - 2OP	10	LX 1030 - 2OP	28	30	360
280	LC 0840 - 2OP	8	LX 0840 - 2OP	22	40	365
300	LC 1620 - 2OP	16	LX 1620 - 2OP	46	20	370
350	LC 0850 - 2OP	8	LX 0850 - 2OP	22	50	435
360	LC 1040 - 2OP	10	LX 1040 - 2OP	28	40	450
380	LC 2020 - 2OP	20	LX 2020 - 2OP	58	20	460
450	LC 1050 - 2OP	10	LX 1050 - 2OP	28	50	540
450	LC 1630 - 2OP	16	LX 1630 - 2OP	46	30	530
500	LC 2620 - 2OP	32	LX 2620 - 2OP	76	20	580
600	LC 1640 - 2OP	16	LX 1640 - 2OP	46	40	685
690	LC 2430 - 2OP	24	LX 2430 - 2OP	70	30	770
750	LC 1650 - 2OP	16	LX 1650 - 2OP	46	50	835
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	1235
1240	LC 3240 - 2OP	32	LX 3240 - 2OP	94	40	1325
1550	LC 3250 - 2OP	32	LX 3250 - 2OP	94	50	1635

2 Output Models for FINGER Protection

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

Protected Height mm	Parallel Beam		Cross Beam		Pitch mm	Overall Height mm
	Models	Beam	Models	Beam		
100			FX 1011 - 2OP	28	11	200
165			FX 1611 - 2OP	46	11	240
250			FX 2411 - 2OP	70	11	340

2 Output Models for BODY Protection

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