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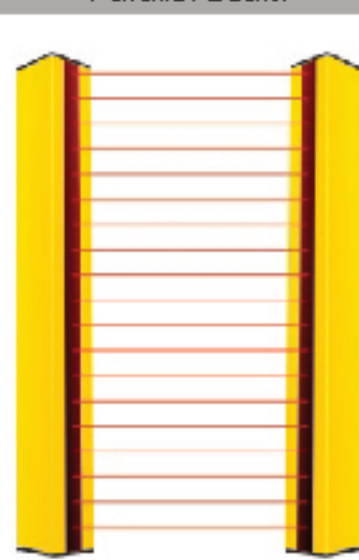
A Complete Process Control automation

Safety Light Curtains

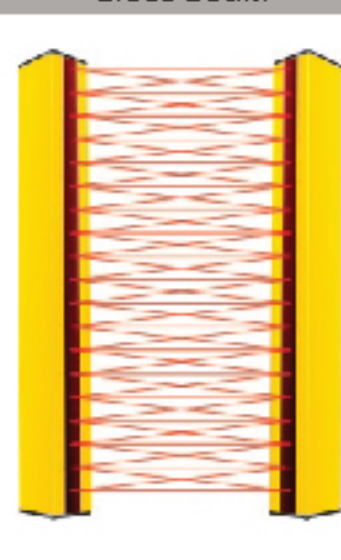
Safety Guards



Parallel Beam



Cross Beam



1. Hand Protection
2. Finger Protection
3. Protection of Body/Part of Body

These are available in two types. Parallel Beam and Cross Beam. For the same protected height, Cross Beam Light curtains are more sensitive as there are more number of active beams in the same area (explained at the bottom with figure).

Safety Light Curtains / Guards are used for preventing injuries of hand / finger / body part, while working at Power presses for Metal, Processing machines for Wood, Plastic, Leather, Rubber, Glass, etc.; Filter presses, Folding or systems, Rubber molding machines, SPMs, Forging Presses, Injection machines, etc.

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 & Receivers is possible.
- Blanking / bypassing individual channel is provided through software.
- System operation is unaffected by mains power fluctuation.
- Dirty or Oily screen make your machine off.
- Barrier operated on cycles scanning photo-electric infra-red techniques.
- Various barrier heights are available for covering 90mm to 1710mm.
- Higher covering heights available upon request.
- Use of solid state components & special construction technique ensures that barrier is not affected by normal vibration & shock.
- 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 indicators are provided of status indication of each channel.
- LED indicators are also provided for output and sense.
- Choice for suitable Control Unit available as per different working conditions. Flexible fixing arrangements to suits individual requirements.
- Increases productivity while maintaining required safety.

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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 msec. Off to On: 50-100 msec.
Restart	Automatic
No of Beams	4, 6, 8, 10, 16, 24, 32 nod.
Beam by Pass	Provided
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 degree centigrade
Fastening Modes	Slide Slot on the back with Adjustable height
Cross Section	36*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 placed opposite to receiver > 3000 lux when source is placed at an angle of 20 degrees

2 Output Models for HAND Protection

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

Protected Height mm	Parallel Beam Models	No. of Beam	Cross Beam Models	No. of Beam	Pitch in mm	Overall Height mm
45	ULC 0415-2OP	4	ULX 0415-2OP	10	15	75
60	ULC 0420-2OP	4	ULX 0420-2OP	10	20	90
75	ULC 0615-2OP	6	ULX 0615-2OP	16	15	105
90	ULC 0430-2OP	4	ULX 0430-2OP	10	30	120
100	ULC 0620-2OP	6	ULX 0620-2OP	16	20	130
105	ULC 0815-2OP	8	ULX 0815-2OP	22	15	150
120	ULC 0440-2OP	4	ULX 0440-2OP	10	40	165
135	ULC 1015-2OP	10	ULX 1015-2OP	18	15	210
140	ULC 0820-2OP	8	ULX 0820-2OP	22	20	210

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Protected Height mm	Parallel Beam Models	No. of Beam	Cross Beam Models	No. of Beam	Pitch in mm	Overall Height mm
150	ULC 0450-2OP	4	ULX 0450-2OP	10	50	240
150	ULC 0630-2OP	6	ULX 0630-2OP	16	30	240
180	ULC 1020-2OP	10	ULX 1020-2OP	28	20	250
200	ULC 0640-2OP	6	ULX 0640-2OP	16	40	290
210	ULC 0830-2OP	8	ULX 0830-2OP	22	30	290
225	ULC 1615-2OP	16	ULX 1615-2OP	46	15	300
250	ULC 0650-2OP	6	ULX 0650-2OP	16	50	340
270	ULC 1030-2OP	10	ULX 1030-2OP	28	30	360
280	ULC 0840-2OP	8	ULX 0840-2OP	22	40	365
300	ULC 1620-2OP	16	ULX 1620-2OP	46	20	370
350	ULC 0850-2OP	8	ULX 0850-2OP	22	50	435
360	ULC 1040-2OP	10	ULX 1040-2OP	28	40	450
450	ULC 1050-2OP	10	ULX 1050-2OP	28	50	540
450	ULC 1630-2OP	16	ULX 1630-2OP	46	30	530
600	ULC 1640-2OP	16	ULX 1640-2OP	46	40	685
690	ULC 2430-2OP	24	ULX 2430-2OP	70	30	770
750	ULC 1650-2OP	16	ULX 1650-2OP	46	50	835
920	ULC 2440-2OP	24	ULX 2440-2OP	70	40	1005
930	ULC 3230-2OP	32	ULX 3230-2OP	94	30	1010
1150	ULC 2450-2OP	24	ULX 2450-2OP	70	50	1235
1240	ULC 3240-2OP	32	ULX 3240-2OP	94	40	1325
1550	ULC 3250-2OP	32	ULX 3250-2OP	94	50	1635

2 Output Models for BODY Protection

Supply	:	12 - 24 Volts DC
Covered Range	:	500 - 3000 mm, Dual PNP Output
Indication	:	LED indicator and Beam By-Pass for each channel

Protected height mm	Parallel Beam Models	No. of Beam	Cross Beam Models	No. of Beam	Pitch mm	Overall height mm
270	UBP 0490-2OP	4	ULX 0490-2OP	14	90	360
630	UBP 0890-2OP	8	ULX 0890-2OP	22	90	720
990	UBP 1290-2OP	12	ULX 1290-2OP	34	90	1080
1350	UBP 1690-2OP	16	ULX 1690-2OP	46	90	1440
1710	UBP 2090-2OP	20	ULX 2090-2OP	58	90	1800

2 Output Models for FINGER Protection

Supply	:	12 - 24 Volts DC
Covered Range	:	45 - 600 mm, Dual PNP Output
Indication	:	LED Indicator for final output

Protected Height mm	No. of Beam	Cross Beam Models	No. of Beam	Pitch mm	Overall Height mm
135	-	UFX1015-2OP	28	15	210
180	-	UFX1020-2OP	28	20	250
225	-	UFX1615-2OP	46	15	300
300	-	UFX1620-2OP	48	20	370
345	-	UFX 2415-2OP	70	15	420

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