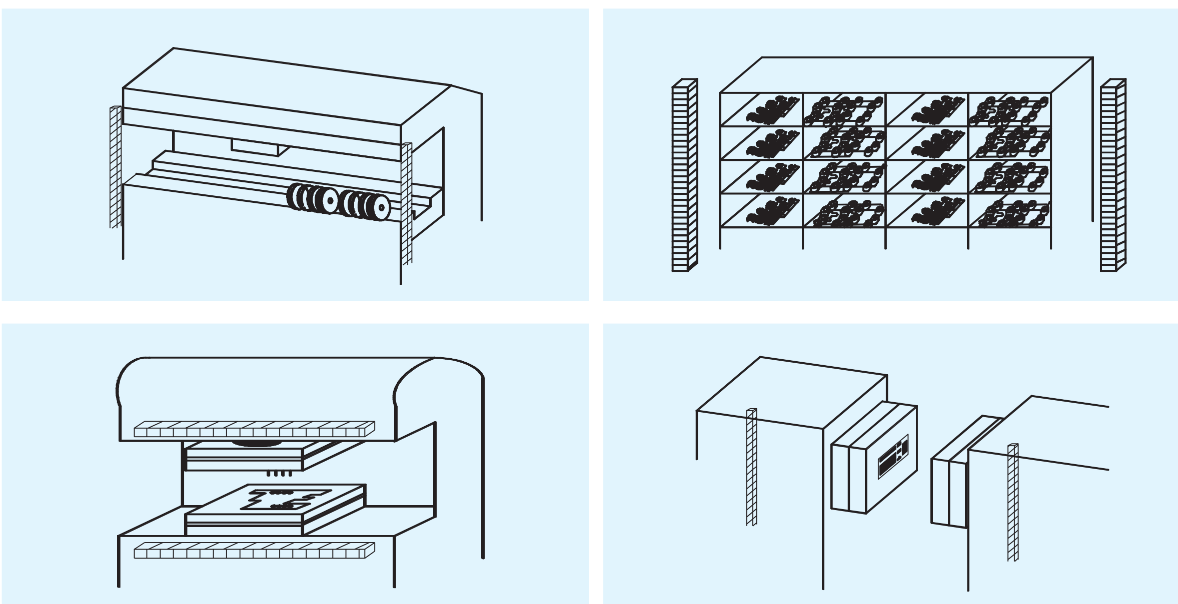
General Use Light Curtain

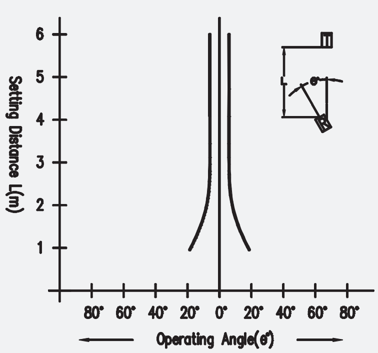
- NA series Beam pitch : 40 mm
- LC series Beam pitch : 25 mm
- Two way output with NO & NC
- Output with short-circuit protection
- All type are appended with「EMC」en-chanced circuit.

Application / 應用例

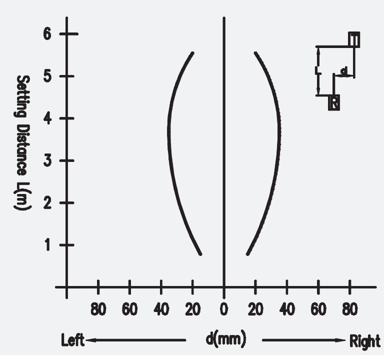


Typical light curve characteristic / 光學特性

Setting Range



Setting Angle



Specification / 規格

LC series											
Model	型號	LC-04E	LC-08E	LC-12E	LC-16E	LC-24E	LC-32E	LC-40E	LC-48E	LC-56E	LC-64E
Beams	光軸數	4	8	12	16	24	32	40	48	56	64
Protection high(mm)	保護高度	75	175	275	375	575	775	975	1175	1375	1575
Beam pitch	光軸間距	25 mm									
Sensible object	最小檢測物	Opaque object 30Φ min.									

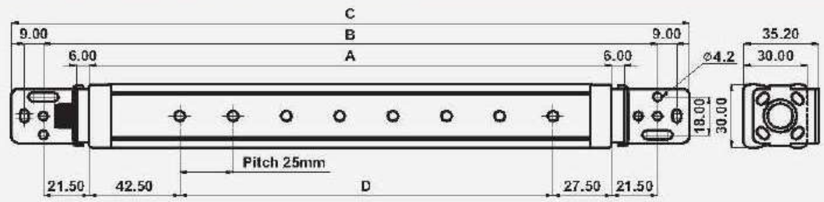
NA series											
Model	型號	NA-04E	NA-06E	NA-08E	NA-12E	NA-16E	NA-20E	NA-24E	NA-28E	NA-32E	NA-36E
Beams	光軸數	4	6	8	12	16	20	24	28	32	36
Protection high(mm)	保護高度	120	200	280	440	600	760	920	1080	1240	1400
Beam pitch	光軸間距	40 mm									
Sensible object	最小檢測物	Opaque object 45Φ min.									

General Specification / 共同規格

Setting distance	安裝距離	0.5 m ~ 6.0 m
Operating voltage	工作電壓	24 ± 20%VDC ； Ripple ±20% P-P max.
Current consumption	消耗電流	8.0 mA/beam max.
Output method	輸出方式	NPN NO & NPN NC two way output
Output current	最大輸出電流	100 mA max.
Output status	輸出狀態	All light channel light NO
Protection circuit	保護電路	Short circuit & polarity reversed protection
Residual voltage	殘留電壓	0.8 V max.
Leakage current	洩漏電流	0.8 mA max.
Response time	反應時間	10 ms max.
Reset time	復歸時間	Output reset time < 200 ms
Illumination	耐外亂光	Lamp < 10,000 LUX ; Sunlight < 20,000 LUX
Protection class	保護等級	IP - 65
Connection method	接線方式	M12x1.0 CONNECTOR 四芯接頭
Housing method	外殼材質	Housing : Aluminum ; END CAP : PBT ; Front cover : ACRYLIC
Circumstance	使用環境	0℃ ~ 50℃; 25% ~ 85% RH
Vibration resistance	抗震動	10 ~ 55 HZ/1.5 mm , 2 小時/ X . Y . Z 方向
Classification	認證標準	CE MARK
EMC Standard	EMC 標準	ESD: 8 KV Air charge (level 3)/EN-61000-4-2 ; Burst test: 2 KV/EN61000-4-4 RF Interference: 10 V/M /ENV50140

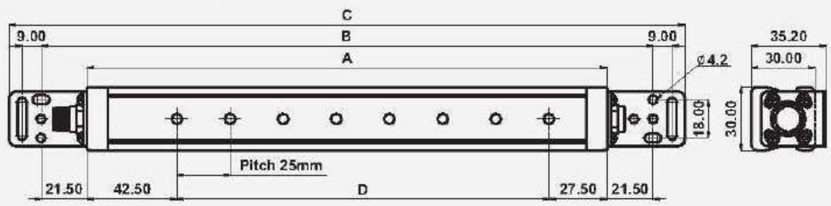
Dimension / 安裝尺寸圖

LC-E series Anti-vibration fixed method / 抗震動固定方式



Type	LC-04	LC-08	LC-12	LC-16	LC-24	LC-32	LC-40	LC-48	LC-56	LC-64
A (mm)	145	245	345	445	645	845	1045	1245	1445	1645
B (mm)	188	288	388	488	688	888	1088	1288	1488	1688
C (mm)	218	318	418	518	718	918	1118	1318	1518	1718
D (mm)	75	175	275	375	575	775	975	1175	1375	1575

LC-E series General fixed method / 一般固定方式



Type	LC-04	LC-08	LC-12	LC-16	LC-24	LC-32	LC-40	LC-48	LC-56	LC-64
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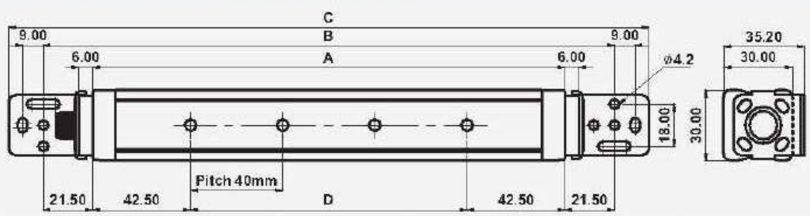
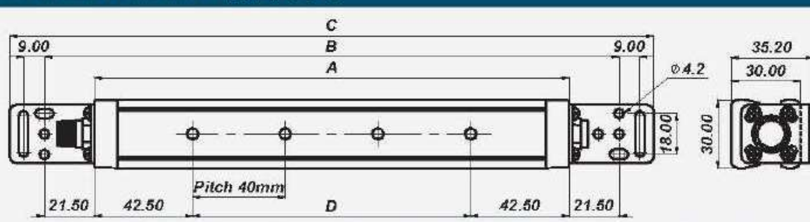
NA-E series Anti-vibration fixed method / 抗震動固定方式



Type	NA-4	NA-6	NA-8	NA-12	NA-16	NA-20	NA-24	NA-28	NA-32	NA-36	NA-40
A (mm)	205	285	365	525	685	845	1005	1165	1325	1485	1645
B (mm)	248	328	408	568	728	888	1048	1208	1368	1528	1688
C (mm)	278	358	438	598	758	918	1078	1238	1398	1558	1718
D (mm)	120	200	280	440	600	760	920	1080	1240	1400	1560

NA-E series General fixed method / 一般固定方式



Type	NA-4	NA-6	NA-8	NA-12	NA-16	NA-20	NA-24	NA-28	NA-32	NA-36	NA-40
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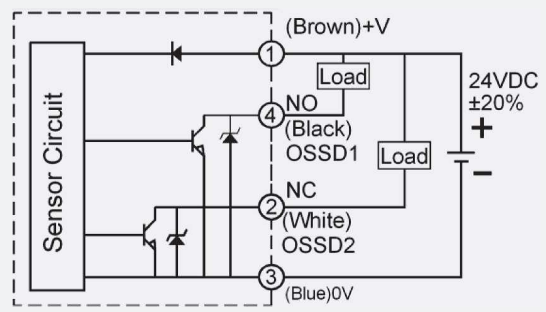
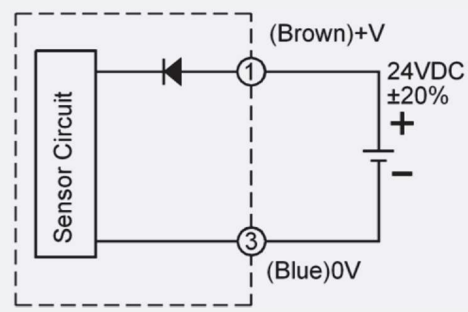
D (mm)	120	200	280	440	600	760	920	1080	1240	1400	1560

Connection diagram / 輸出迴路 & 接線圖

Receiver	Emitter





Status of indicator / 狀態指示燈

Yellow LED : Power indicator
Green LED : Clear status (OSSD1 ON & OSSD2 OFF)
Red LED : Break status (OSSD1 OFF & OSSD2 ON)

黃色指示燈：電源燈
綠色指示燈：警戒狀態 （OSSD1 ON & OSSD2 OFF）
紅色指示燈：遮斷狀態 （OSSD1 OFF & OSSD2 ON）

Cautions / 注意事項

1. This product is not designed to protect [life] , [bodily injury] or [property damage] from dangerous machinery
2. This product is not conformed to any safety standards
3. The power on delay time of sensor output signal less than 0.2s,pleas do not use the sensor output signal this time
4. IT may cause malfunction, if put the sensor cable with the power lines or high voltage lines
5. IT is suggested to settle the protection system with two outputs of sensor to avoid occurring danger, if one of the two output is broke down
6. IF may be malfunction, if the sensor affected by the reflected light from the glossy object

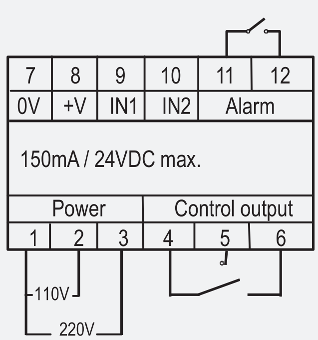
1. 本產品不是設計使用在危險機器上。
2. 本產品是一般用途光幕，未申請任何安全認證。
3. 送電輸出動作延遲時間約0.2秒，這段期間請勿使用控制器的輸出信號。
4. 如果控制器的信號線和動力線或高壓線綁在一起可能造成誤動作。
5. 建議同時使用兩個輸出作連鎖控制以防止其中一個輸出被破壞無法正常工作，導致控制器無法關閉輸出。
6. 四周光亮的物體可能造成控制器失效。

- To detect output malfunction of light curtain
  - Output broke wire detection
  - Output short circuit detection
- Malfunction detection with latching function
- 光幕異常偵測
  - 輸出斷線偵測
  - 輸出短路偵測
- 異常偵測附鎖住功能

Specification / 規格

Product 產品	Light curtain controller 光幕安全控制器			Power supply 24V電源供應器	
Model 型號	**C-1-LCK**			**C-1-24V**	
Control method 控制方式	OSSD1 & OSSD2 Interlock control			Non	
Control output 控制輸出	Relay 1c ; 5A/250VAC			Non	
Alarm output 警報輸出	Relay 1a ; 5A/250VAC			Non	
Latching function 保持功能	Error latching			Non	
Power supply 工作電壓	110V / 220VAC 50/60Hz				
Current consumption 耗電流	3VA Max.				
DC power output 直流輸出	150mA / 24V Max.				
Alarm reset 警報復歸	Manual reset				
Output current 工作環境	-20℃ ~ +80℃ ; 35% ~ 85% RH				
Operating circumstance 功能	Status	OSSD1	OSSD2	Run	Alarm
	Clear	L	H	ON	OFF
	Brake	H	L	OFF	OFF
	Error	H	H	OFF	ON
	Error	L	L	OFF	ON

Connection diagram 接線圖



Outline dimension 外形尺寸