

CHELSEA LINEAR LIGHT SENSOR

Option 1: Light Level & Motion Sensor

Features:

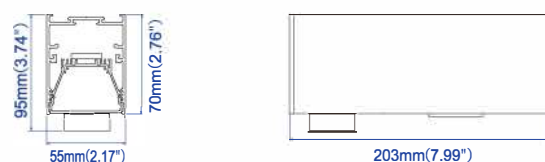
- The constant value (lux) of luminance can be adjusted freely to satisfy different requests.
- Controlled by ambient luminance, daylight sensor can be adjusted freely.
- Sensitivity of sensor can be adjusted.
- The time of light on, hold time light on or hold time light off could be adjusted freely
- Compatible with lighting fixtures with 1-10V dimming function.



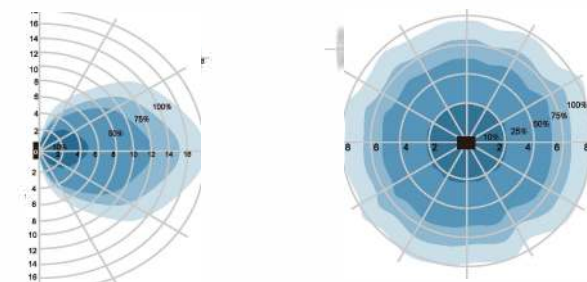
Parameter

Dimension	203mm(0.67ft)X55mm(0.18ft)X70mm(0.23ft)
Detection angle	150°(wall installation),360°(ceiling installation)
Operating voltage	120-277Vac,50HZ/60HZ
Rated power	400W
Detection radius	6m (when installation height is 6 meters)
Max installtion height	12M
Constant illuminance range	100LUX~800LUX
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / +∞
Daylight sensor	2lux/5lux / 10lux / 25lux / 50lux / 100lux / Disable
Stand-by period	0s / 5s / 5min / 10min / 30min / 1h / +∞
Stand-by dimming level	10% / 20% / 30% / 50%
Operating temperature	0°C~+45°C
Storage temperature	-40°C~+60°C
Humidity	40~75% RH
IP grade	IP40
Installation way	Attach to lighting fixture or install separately
Gross Weight	0.65Kg

Size



Detection Pattern



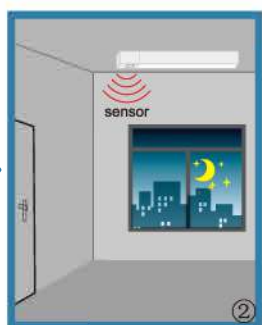
Wall mounting pattern
Suggested installation
height: 1-1.8m

Ceiling mounting pattern
Suggested installation
height: 2.5-10m

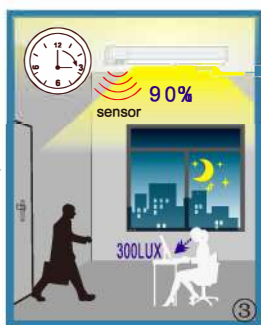
Automation effect:



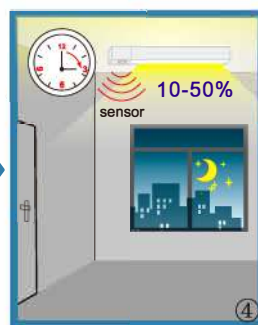
with sufficient ambient light,
lighting fixture would not work
even if movement is detected



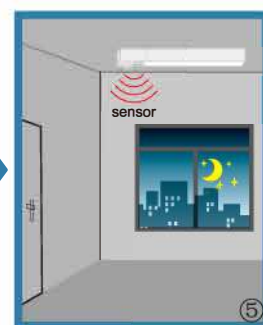
with insufficient ambient light,
lighting fixture would not work
if no movement to be detected



with insufficient ambient light,
lighting fixture would work as
per constant illuminance value
if any movement is detected

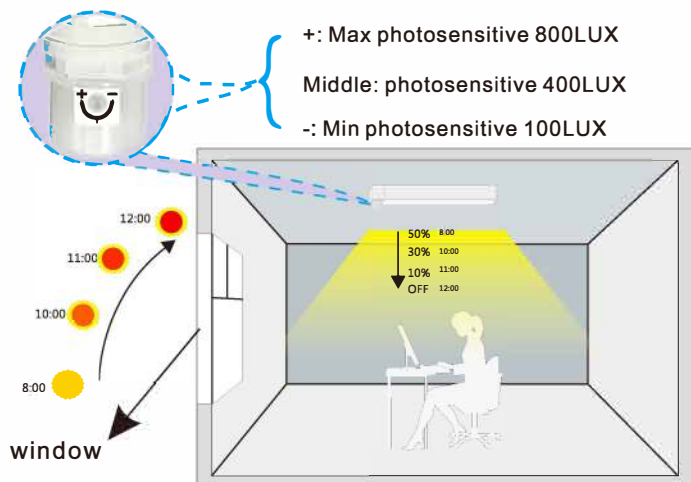


stand-by period function would
be activated after hold time
function if no any further
movement to be detected



light fixture would be turned off
after stand-by period if no any
further movement to be
detected

Setting of constant illuminance



Instruction:

Photosensitive value is the value of sensor position, photosensitive value need to be adjusted accordingly to different position: when the actual illuminance is lower than setting value, lighting fixture would work by Max power; when the actual illuminance is higher than setting value, lighting fixture would work by Min power or turn off

Data setting

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

		1	2	
ON ↑ ON	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

Detection area

Detection area can be reduced by selecting the DIP switches which fit precisely to each application .

		3	4	5	
ON ↑ ON	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	90S
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

Hold time

Refers to the time period the light fixture remaining at 100% movement is detected.

		6	7	8	
ON ↑ ON	I	ON	ON	ON	0S
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

Stand-by period

Refers to the time period the light fixture remains at a low light level before it completely turns off. When set to +∞ mode, the low light is maintained until movement is detected.

		1	2	3	4	
ON ↑ ON	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

Daylight sensor

The sensor can be set to only allow the light fixture to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on light fixture when movement is detected regardless of ambient light level. 50lux, 30lux: nightfall operation, 10lux, 5lux: darkness operation only, Note that daylight sensor is active only when light fixture is totally turned off.

		5	6	
ON ↑ ON	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

Stand-by dimming level

The low light level as per setting after hold time period.

CHELSEA LINEAR LIGHT SENSORS

Option 2: Light Level Sensor

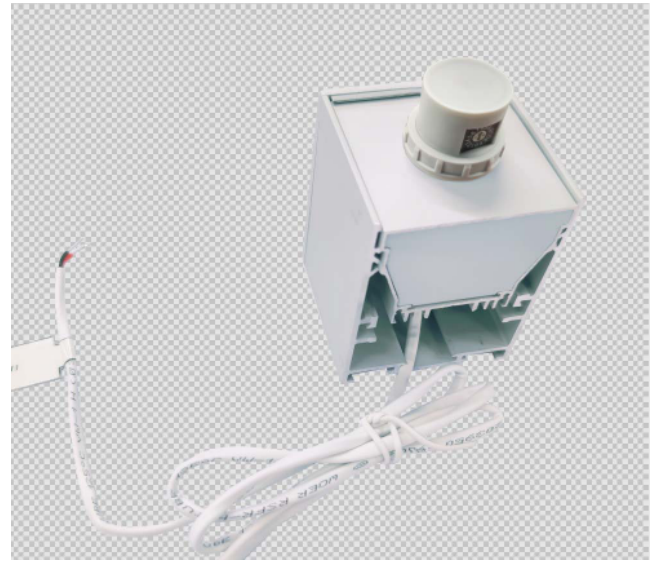
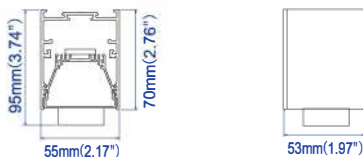
Features:

- The constant value (lux) of illuminance could be adjusted freely to satisfy different requests.
- Lighting fixtures are adjusted automatically according to constant illuminance value.
- Compatible to lighting fixture with 1~10V dimming function.

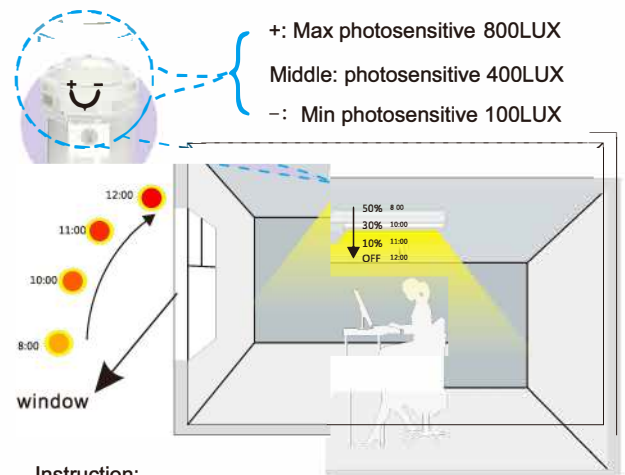
Parameter

Dimension	53mm(0.17ft)X55mm(0.18ft)X70mm(0.23ft)
Dimming range	1%-100%
Voltage	1-10V dimming port
Rated power	400W
Detection angle	180°
Cable length	800mm (2.62ft)
Constant illuminance range	100LUX~800LUX
Operating temperature	0°C~+45°C
Storage temperature	-40°C~+60°C
Humidity	40~75% RH
IP grade	IP40
Installation way	Attach to lighting fixture or install separately
Gross Weight	0.25Kg

Size



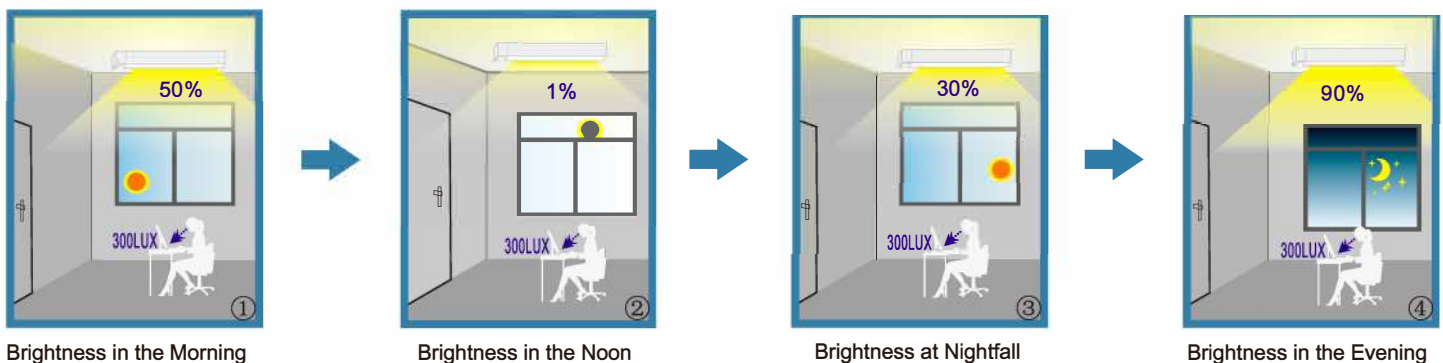
Setting of constant illuminance



Instruction:

Photosensitive value is the value of sensor position, photosensitive value need to be adjusted accordingly to different position: when the actual illuminance is lower than setting value, lighting fixture would work by Max power; when the actual illuminance is higher than setting value, lighting fixture would work by Min power or turn off

Automation effect:



- Connect to 1~10v dimming port to use internal photocell to detect ambient lux and adjust proper artificial light automatically which is in need.

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Option 3: Motion Sensor w/ Reductions

Features:

- The constant value (lux) of luminance can be adjusted freely to satisfy different requests.
- Controlled by ambient luminance, daylight sensor can be adjusted freely.
- Sensitivity of sensor can be adjusted.
- The time of light on, hold time light on or hold time light off could be adjusted freely
- Compatible with lighting fixtures with 1-10V dimming function.

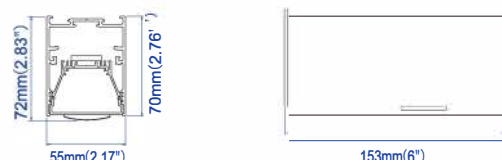


Parameter

Dimension	153mm(0.5ft)X55mm(0.18ft)X70mm(0.23ft)
Detection angle	150°(wall installation),360°(ceiling installation)
Operating voltage	120-277Vac,50HZ/60HZ
Rated power	400W
Detection radius	6m (when installation height is 6 meters)
Max installation height	12M
Constant illuminance range	100LUX~800LUX
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / +∞
Daylight sensor	2lux/5lux / 10lux / 25lux / 50lux / 100lux / Disable
Stand-by period	0s / 5s / 5min / 10min / 30min / 1h / +∞
Stand-by dimming level	10% / 20% / 30% / 50%
Operating temperature	0°C~+45°C
Storage temperature	-40°C~+60°C
Humidity	40~75% RH
IP grade	IP40
Installation way	Attach to lighting fixture or install separately
Gross Weight	0.65Kg



Size



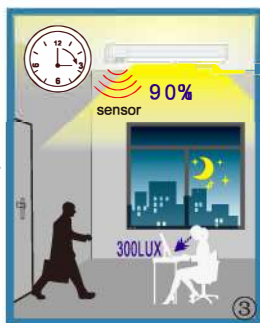
Automation effect:



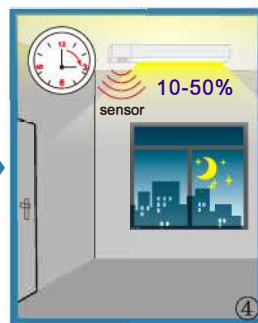
with sufficient ambient light, lighting fixture would not work even if movement is detected



with insufficient ambient light, lighting fixture would not work if no movement to be detected



with insufficient ambient light, lighting fixture would work as per constant illuminance value if any movement is detected

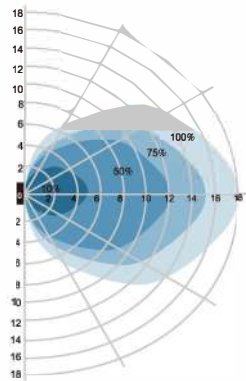


stand-by period function would be activated after hold time function if no any further movement to be detected

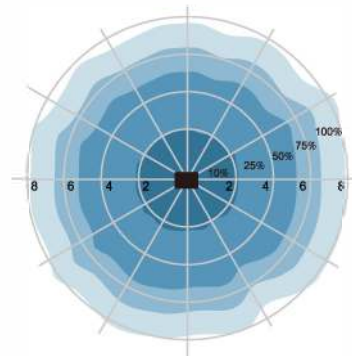


light fixture would be turned off after stand-by period if no any further movement to be detected

Detection Pattern



Wall mounting pattern
Suggested installation height: 1-1.8m



Ceiling mounting pattern
Suggested installation height: 2.5-10m

Data setting

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

		1	2	
ON ↑ [DIP Switch]	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

Detection area

Detection area can be reduced by selecting the DIP switches which fit precisely to each application.

		3	4	5	
ON ↑ [DIP Switch]	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	90S
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

Hold time

Refers to the time period the light fixture remaining at 100% movement is detected.

		6	7	8	
ON ↑ [DIP Switch]	I	ON	ON	ON	0S
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

Stand-by period

Refers to the time period the light fixture remains at a low light level before it completely turns off. When set to +∞ mode, the low light is maintained until movement is detected.

		1	2	3	4	
ON ↑ [DIP Switch]	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable

Daylight sensor

The sensor can be set to only allow the light fixture to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on light fixture when movement is detected regardless of ambient light level. 50lux, 30lux: nightfall operation, 10lux, 5lux: darkness operation only. Note that daylight sensor is active only when light fixture is totally turned off.

		5	6	
ON ↑ [DIP Switch]	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

Stand-by dimming level

The low light level as per setting after hold time period.

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Option 4: Motion Sensor w/o Reductions

Features:

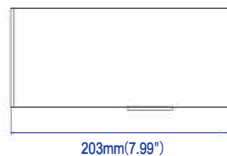
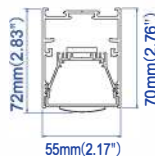
- The constant value (lux) of illuminance could be adjusted freely to satisfy different requests.
- Sensor sensitivity could be adjusted freely.
- The time of light-on could be adjusted freely.
- Compatible to non-dimmable and dimmable light fixtures.



Parameter

Dimension	203mm(0.67ft)X55mm(0.18ft)X70mm(0.23ft)
Detection angle	150°(wall installation),360°(ceiling installation)
Operating voltage	220-240Vac,50HZ
Rated power	250W
Detection radius	3m (when installation height is 3 meters)
Max installtion height	6M
Detection sensitivity	25% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor	2lux/10lux / 25lux /50lux / Disable
Operating temperature	0°C~+45°C
Storage temperature	-40°C~+60°C
Humidity	40~75% RH
IP grade	IP40
Installation way	Attach to lighting fixture or install separately
Gross Weight	0.65Kg

Size



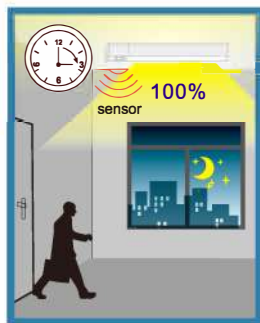
Automation effect:



with sufficient ambient light, lighting fixture would not work even if movement is detected



with insufficient ambient light, lighting fixture would not work if no movement to be detected

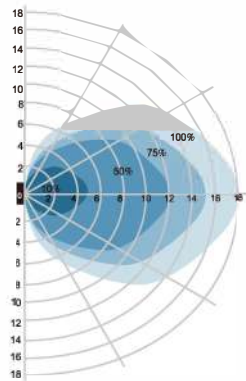


with insufficient ambient light, lighting fixture would work as per hold time if any movement to be detected

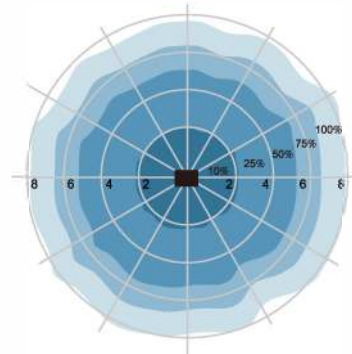


After hold time, lighting fixture would be turned off if no further movement to be detected

Detection Pattern



Wall mounting pattern
Suggested installation height: 1-1.8m



Ceiling mounting pattern
Suggested installation height: 2.5-10m

Data setting

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

		1	2	
ON ↑ [DIP SWITCH]	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

Detection area

Detection area can be reduced by selecting the DIP switches which fit precisely to each application .

		3	4	5	
ON ↑ [DIP SWITCH]	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	90S
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

Hold time

Refers to the time period the light fixture remaining at 100% movement is detected.

		6	7	8	
ON ↑ [DIP SWITCH]	I	ON	ON	ON	2Lux
	II	ON	ON	-	10Lux
	III	-	ON	-	25Lux
	IV	ON	-	-	50Lux
	V	-	-	-	Disable

Daylight sensor

The sensor can be set to only allow the light fixture to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on light fixture when movement is detected regardless of ambient light level. 50lux, 30lux: nightfall operation, 10lux, 5lux: darkness operation only, Note that daylight sensor is active only when light fixture is totally turned off.