

LED Eco-Commercial Strip



DL-EC2	Segment	Wattage Range	Lumen Range
	Commercial & Industrial	16-90W	2,080-11,700lm

Features

- White post painted steel housing in 2', 3', 4' and 8' lengths.
- Operating temperature range of -20 °C ~ +50 °C.
- Field Selectable 5 CCT (3000K, 3500K, 4000K, 5000K & 6500K) along with Auto Sensing 120- 347V Driver.
- PMMA opal lens and optional field installed wire guard for additional protection.
- Suitable for Surface, or suspended chain mounting. J-BOX split cover plate (included) and row mounting possible with optional joiner plate.
- Compatible with 0-10V Dimming, cULus Listed, LM-80 Approved

Specifications

Housing :

White post painted steel housing with split LED box cover.

Optics :

PMMA opal lens mounted on LED Box cover snaps onto housing.

Mounting :

Suitable for surface or suspended mounting with standard snap on mounting brackets. Row mounting possible with optional row mount joiner plate.

Driver :

Autosensing 120-347V, selectable wattage with Operating temperature range of -20 °C ~ +50 °C.

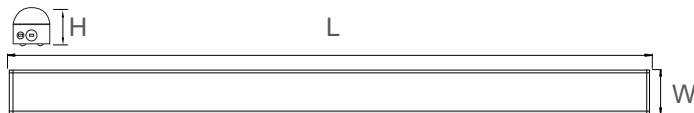
LED :

Field Selectable CCT of 3000K, 3500K, 4000K, 5000K & 6500K. Efficacy of 130lm/w with Lumiled LED

Controls :

Compatible with optional microwave or PIR sensor controlled via optional remote controls.

Dimensional Drawing



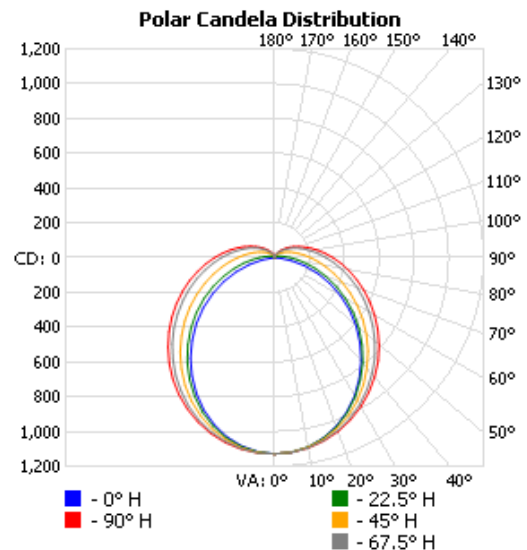
	L	W	H
2FT	22.2"	2.8"	3.1"
3FT	35.0"	2.8"	3.1"
4FT	47.3"	2.8"	3.1"
8FT	94.2"	2.8"	3.1"



PIR Sensor option



Polar Candela



Applications



Corridors



Utility rooms



Warehousing

LED Eco-Commercial Strip



DL-EC2	Segment	Wattage Range	Lumen Range
	Commercial & Industrial	16-90W	2,080-11,700lm

Ordering Information DL-EC2/4F/56W/MK/120-347V/D/A

Family Name	Fixture Type	Size	Wattage	CCT	Voltage	Dimmable	Compatible	Sensor
DL (Deltalum)	EC2 (Eco-Commercial)	2F (2') 3F (3') 4F (4') 4FS (4' Small wattage) 4FL (4' Large wattage) 8FL, 8FHO (8' Large wattage)	56W MW (Selectable wattage)	MK (Selectable CCT)	120-347V	D (Dimmable)	A (12v Aux compatible) Blank (No Aux power)	LV6SA (Low voltage 6m sensor) PIR (Low voltage PIR Sensor) PIR-BT (Low voltage Bluetooth PIR Sensor) EM (Emergency battery)

Product Specification

Ordering Code	DLC	Model Number	Wattage (W)	Input Voltage (V)	Hour Rating (L70)	Beam Angle	Initial Delivered Lumens (lumen)	CCT (K)	CRI	Damp Location	M.O.L (inch)	Case QTY.
3680381	Yes	DL-EC2/2F/MW/MK/120-347V/D/A	20-18-16	120-347V	100,000	120°	2600-2340-2080	30-35-40-50-65	>80	Yes	24	6
3680382	Yes	DL-EC2/3F/MW/MK/120-347V/D/A	25-21-17	120-347V	100,000	120°	3250-2730-2210	30-35-40-50-65	>80	Yes	36	6
3682275	Yes	DL-EC2/4FS/MW/MK/120-347V/D	30-25-18	120-347V	100,000	120°	3900-3250-2340	30-35-40-50-65	>80	Yes	48	6
3680369	Yes	DL-EC2/4FS/MW/MK/120-347V/D/A	30-25-18	120-347V	100,000	120°	3900-3250-2340	30-35-40-50-65	>80	Yes	48	6
3680383	Yes	DL-EC2/4FS/MW/MK/120-347V/D/A/LV6SA	30-25-18	120-347V	100,000	120°	3900-3250-2340	30-35-40-50-65	>80	Yes	48	6
3682276	Yes	DL-EC2/4FL/MW/MK/120-347V/D	45-38-34	120-347V	100,000	120°	6075-4940-4420	30-35-40-50-65	>80	Yes	48	6
3680370	Yes	DL-EC2/4FL/MW/MK/120-347V/D/A	45-38-34	120-347V	100,000	120°	6075-4940-4420	30-35-40-50-65	>80	Yes	48	6
3680372	Yes	DL-EC2/4FL/MW/MK/120-347V/D/A/LV6SA	45-38-34	120-347V	100,000	120°	5850-4940-4420	30-35-40-50-65	>80	Yes	48	6
3662216	Yes	DL-EC2/4FL/MW/MK/120-347V/D/A/PIR	45-38-34	120-347V	100,000	120°	5850-4940-4420	30-35-40-50-65	>80	Yes	48	6
3662239	Yes	DL-EC2/4FL/MW/MK/120-347V/D/A/PIR-BT	45-38-34	120-347V	100,000	120°	5850-4940-4420	30-35-40-50-65	>80	Yes	48	6
3682256	Yes	DL-EC2/4FL/MW/MK/120-347V/D/A/EM	45-38-34	120-347V	100,000	120°	5850-4940-4420	30-35-40-50-65	>80	Yes	48	6
3682274	Yes	DL-EC2/4F/56W/MK/120-347V/D	56	120-347V	100,000	120°	7280	30-35-40-50-65	>80	Yes	48	6
3666323	Yes	DL-EC2/4F/56W/MK/120-347V/D/A	56	120-347V	100,000	120°	7280	30-35-40-50-65	>80	Yes	48	6
3682277	Yes	DL-EC2/8FL/MW/MK/120-347V/D	90-75-65	120-347V	100,000	120°	11700-9750-8450	30-35-40-50-65	>80	Yes	96	4
3680371	Yes	DL-EC2/8FL/MW/MK/120-347V/D/A	90-75-65	120-347V	100,000	120°	11700-9750-8450	30-35-40-50-65	>80	Yes	96	4
3680373	Yes	DL-EC2/8FL/MW/MK/120-347V/D/A/LV6SA	90-75-65	120-347V	100,000	120°	11700-9750-8450	30-35-40-50-75	>80	Yes	96	4
3662217	Yes	DL-EC2/8FL/MW/MK/120-347V/D/A/PIR	90-75-65	120-347V	100,000	120°	11700-9750-8450	30-35-40-50-65	>80	Yes	96	4
3662241	Yes	DL-EC2/8FL/MW/MK/120-347V/D/A/PIR-BT	90-75-65	120-347V	100,000	120°	11700-9750-8450	30-35-40-50-65	>80	Yes	96	4
3686114	Yes	DL-EC2/8FHO/MW/MK/120-347V/D	136-106-94-80	120-347V	100,000	120°	21000-16400-15200-13000	30-35-40-50-65	>80	Yes	96	4
3660249	-	DL-EC2/LV6SA/SENSOR	DeltaLum EC2 Strip 12V DC LoVo Microwave Sensor (Default Setting, Trim level 100%, Sensitivity High, Hold Time 15, Standby Dim 50%, Standby time ~, Photocell Off)									
3660250	-	DL-EC2/4F/WG	DL-EC2 Strip, 4FT Wire Guard									
3660399	-	DL-EC2/4F/REFLECTOR/2S	DeltaLum EC2 Strip Powder Coated White Reflector - 1x 4FT Pair									
3660251	-	DL-EC2/RM	DL-EC2 Strip, Row Mounting									
3660286	-	DL-EC2/4F/LENS	Replacement PMMA Lens, 4FT									
3660287	-	DL-EC2/8F/LENS	Replacement PMMA Lens, 8FT									
18733	-	TL-EM/8W/120-347V	Emergency LED Driver, 8W, 120-347V*									
3660334	-	DL-EC2/LV6SA/CONTROLLER	DL-EC2, LV6SA CONTROLLER									
3660282	-	RGD-CB3/LVS/CONTROLLER	PIR1 Sensor Controller									
3660333	-	DL-EC2/MTG/H-C/KIT	DL-EC2, Hook & Chain Mounting Kit, includes, 2 x V Hooks and 2 x 1.05m Lengths of Link Chain									

*For in-field installation only.

NOTE:

- Microwave can penetrate walls or glass thinner than 20cm, movement in adjacent corridors may be detected.
 - Detection area will be affected by speed of motion, mounting height and movement volume.
 - Installation shall not be mounted to avoid false trigger caused by the luminaire itself shaking. (Rooftop HVAC, upper floor vibration, etc.)
 - Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.
 - They cannot penetrate metal. Large metal object near the sensor may create a "dead zone" behind it.
 - Microwave sensors have advantage over PIR device in that they can operate in hot environments, however, they are sensitive devices and can be prone to false detection by everyday items like ceiling fans, moving branches or curtains, loose packaging, etc.
 - Microwave sensors should be tested before, if used in close proximity to Airports / Communication towers etc.
- Other options may be available, consult TuroLight Sales. Specifications and data are subject to change without notice.

4F Reflector KIT (DL-EC2/4F/REFLECTOR/2S)



Note:

Reflector KIT comes with two 4FT sections. Order two Kits for 8FT Fixtures

LED Eco-Commercial Strip



DL-EC2	Segment	Wattage Range	Lumen Range
	Commercial & Industrial	16-90W	2,080-11,700lm

DLC Certification

Ordering #	Model Number	Primary Use	DLC Standard	DLC Premium
3682274	DL-EC2/4F/56W/MK/120-347V/D	Direct Linear Ambient Luminaires Stairwell and Passageway Luminaires (Premium)	S-NFXTC8	S-F3F4RG
3682275	DL-EC2/4FS/MW/MK/120-347V/D	Direct Linear Ambient Luminaires Stairwell and Passageway Luminaires(Premium)	S-F7PVOS	S-DJ30AV
3682276	DL-EC2/4FL/MW/MK/120-347V/D	Direct Linear Ambient Luminaires	S-965YTU	-
		Low-Bay Luminaires for Commercial and Industrial Buildings	S-SR1CMC	-
		Stairwell and Passageway Luminaires(Premium)	-	S-CR7K1P
3682277	DL-EC2/8FL/MW/MK/120-347V/D	Direct Linear Ambient Luminaires High-Bay Luminaires for Commercial and Industrial Buildings (Premium)	S-F51QL0	S-AYU13F
3680381	DL-EC2/2F/MW/MK/120-347V/D/A	Direct Linear Ambient Luminaires	S-N684I3	-
3680382	DL-EC2/3F/MW/MK/120-347V/D/A	Direct Linear Ambient Luminaires	S-JFIA65	-
3666323	DL-EC2/4F/56W/MK/120-347V/D/A	Direct Linear Ambient Luminaires Stairwell and Passageway Luminaires (Premium)	S-NFXTC8	S-F3F4RG
3680369	DL-EC2/4FS/MW/MK/120-347V/D/A	Direct Linear Ambient Luminaires	S-K6QINY	-
3680370	DL-EC2/4FL/MW/MK/120-347V/D	Direct Linear Ambient Luminaires	S-965YTU	-
		Low-Bay Luminaires for Commercial and Industrial Buildings	S-SR1CMC	-
		Stairwell and Passageway Luminaires (Premium)	-	S-CR7K1P
3680371	DL-EC2/8FL/MW/MK/120-347V/D	Direct Linear Ambient Luminaires	S-9STB0Y	-
		High-Bay Luminaires for Commercial and Industrial Buildings	S-J9ZW3B	-
		Stairwell and Passageway Luminaires (Premium)	-	S-6L2HHD
3680383	DL-EC2/4FS/MW/MK/120-347V/D/A/LV6SA	Direct Linear Ambient Luminaires	S-K6QINY	-
3680373	DL-EC2/8FL/MW/MK/120-347V/D/A/LV6SA	Direct Linear Ambient Luminaires	S-9STB0Y	-
		High-Bay Luminaires for Commercial and Industrial Buildings	S-J9ZW3B	-
		Stairwell and Passageway Luminaires (Premium)	-	S-6L2HHD
3682256	DL-EC2/4FL/MW/MK/120-347V/D	Direct Linear Ambient Luminaires	S-965YTU	-
		Low-Bay Luminaires for Commercial and Industrial Buildings	S-SR1CMC	-
		Stairwell and Passageway Luminaires (Premium)	-	S-CR7K1P
3686114	DL-EC2/8FHO/MW/MK/120-347V/D	Direct Linear Ambient Luminaires / High-Bay Luminaires for Commercial and Industrial Buildings	S-WK9W53 / S-CH0XK2	-
3680372	DL-EC2/4FL/MW/MK/120-347V/D/A/LV6SA	Direct Linear Ambient Luminaires	S-965YTU	-
		Low-Bay Luminaires for Commercial and Industrial Buildings	S-SR1CMC	-
		Stairwell and Passageway Luminaires (Premium)	-	S-CR7K1P
3662216	DL-EC2/4FL/MW/MK/120-347V/D/A/PIR	Direct Linear Ambient Luminaires	S-965YTU	-
		Stairwell and Passageway Luminaires (Premium)	-	S-CR7K1P
3662239	DL-EC2/4FL/MW/MK/120-347V/D/A/PIR-BT	Direct Linear Ambient Luminaires	S-965YTU	-
		Stairwell and Passageway Luminaires (Premium)	-	S-CR7K1P
3662217	DL-EC2/8FL/MW/MK/120-347V/D/A/PIR	Direct Linear Ambient Luminaires	S-9STB0Y	-
		High-Bay Luminaires for Commercial and Industrial Buildings	S-J9ZW3B	-
		Stairwell and Passageway Luminaires (Premium)	-	S-6L2HHD
3662241	DL-EC2/8FL/MW/MK/120-347V/D/A/PIR-BT	Direct Linear Ambient Luminaires	S-9STB0Y	-
		High-Bay Luminaires for Commercial and Industrial Buildings	S-J9ZW3B	-
		Stairwell and Passageway Luminaires (Premium)	-	S-6L2HHD

LED Eco-Commercial Strip



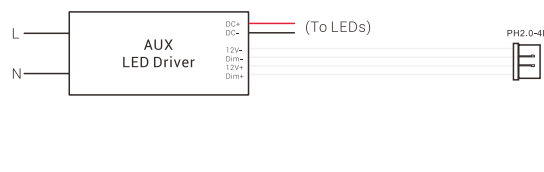
DL-EC2	Segment	Wattage Range	Lumen Range
	Commercial & Industrial	16-90W	2,080-11,700lm

DL-EC2/LV6SA/SENSOR

12V Low Voltage Microwave Sensor



Sensor Wiring



DL-EC2/LV6SA/CONTROLLER

12V Low Voltage Microwave Sensor Remote Control

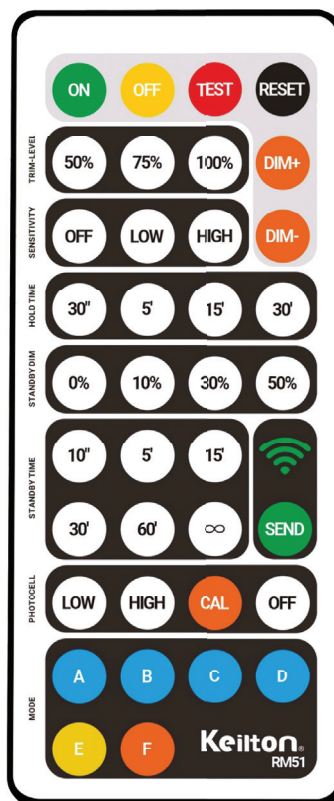
Memory Mode (Commissioning) To begin commissioning, follow the steps below:

1. Select either A, B, C, D.
 2. Indicator lights on the remote will flash to indicate the current saved settings.
 3. Settings can be configured by pressing appropriate buttons in the highlighted gray area of the remote. (TRIM-LEVEL, SENSITIVITY, HOLD TIME, STANDBY DIM, STANDBY TIME, and PHOTOCCELL). Review selected settings and make changes as necessary.
 4. Point IR remote to desired luminaire for configuration and press "SEND".
 5. If configuration is successful, luminaire will flash two times suggesting settings are saved. Any parameter change to the current saved settings on A to F will override previous settings and will be automatically saved on the remote. If configuring multiple luminaires, select the configured memory mode A to E then follow steps 4 and 5.
- *** E Mode allows visual adjustment to choose the desired dimming Level.

Continuous Adjustment Mode or Daylight Harvesting (F Mode) enables dimmability in response to daylight availability.

1. Point IR remote to desired luminaire
2. Press "ON" then press DIM+ or DIM- to adjust dimming level.
3. Press "F", indicator lights on the remote will indicate current saved settings. Note: only TRIM-LEVEL, SENSITIVITY, and HOLD TIME can be selected for Daylight Harvesting settings.
4. Review selected settings and make changes as necessary. Press "SEND".
5. If configuration is successful, luminaire will flash twice to confirm setting saved.
6. If configuring multiple luminaires, select the configured DAYLIGHT HARVESTING settings then follow steps 4 and 5.
5. Default Settings: Motion -> 100%, No Motion >= 5min -> dim to 30%, No Motion >= 60min -> Off

ON	Turns On Luminaires
OFF	Turns OFF Luminaires
TEST	Test mode will last 5 mins then return to previous setting. Test mode: hold time 2s, standby Dim level 50%, standby time 2s.
RESET	Trim-High=100%, sensitivity=High, T1=5min, Standby Dim=30%, T2=60min, Photocell=OFF
DIM+/-	Remote will manually dim luminaire up or down by increments of 0.5volts. Must be smooth dimming if holding dimming button.
TRIM-LEVEL	Set Maximum threshold value 50/75/100%
SENSITIVITY	OFF(PIR OFF Enter PC ON/OFF function)/LOW(50%)/HIGH (100%)
HOLD TIME	(time of no occupancy after which fixture goes to stand by) 30s / 5min / 15min / 30min
F MODE DAYLIGHT HARVESTING	(Enable/Disable) Measure and set feature to allow the fixture to maintain a light level. If turned ON.
STANDBY DIM	Select any standby dim level 0/10/30/50%
STANDBY TIME	Stand by time - 10s / 5min / 15min / 30min / 1h / ∞. "∞" means the stand-by time is infinite and the fixture is effectively controlled by the daylight sensor)
PHOTOCCELL	LOW (1fc) and HIGH (50fc) CAL Collecting The current Lux Level / OFF
MODE	Set settings to a Program profile A to F
SEND	Send settings to sensor
DEFAULT MODE A	Trim-High=100%, sensitivity=low, T1=30min, Standby Dim=50%, T2=∞, Photocell=CAL
DEFAULT MODE B	Trim-High=100%, sensitivity=low, T1=30min, Standby Dim=50%, T2=15min, Photocell=CAL
DEFAULT MODE C	Trim-High=100%, sensitivity=low, T1=30min, Standby Dim=50%, T2=15min, Photocell=OFF
DEFAULT MODE D	Trim-Low=50%, sensitivity=low, T1=30s, Standby Dim=50%, T2=30min, Photocell=CAL
DEFAULT MODE E	Manual Mode, Trim-High=100%
DEFAULT MODE F	Daylight Harvesting, Trim-Low=50%, sensitivity=low, T1=15min



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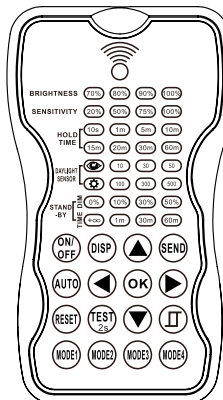
DL-EC2	Segment	Wattage Range	Lumen Range
	Commercial & Industrial	16-90W	2,080-11,700lm

RGD-CB3/LVS/CONTROLLER

Overview

The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device modification via pushbuttons without requiring ladders or tools, and stores up to four sensor parameter modes to speed configuration of multiple sensors.

The remote control uses bidirectional IR communication to send and receive sensor settings at mounting heights up to 50 feet. The device can display previously established sensor parameters, copy parameters, send new parameters, or store parameter profiles. For projects where identical settings are desired across a large number of areas or spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a site or in different sites.



LED Indicators

LED	DESCRIPTION	LED	DESCRIPTION
BRIGHTNESS	High end trim turning function(To Set the output level of connected lighting during occupancy)		To select the current surrounding lux value as the daylight threshold. This feature enables the fixture to function well in any real application circumstances.
SENSITIVITY	To set the occupancy sensing sensitivity of the Sensor		The daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.
HOLD TIME	The time that the Sensor will turn off(If you choose stand-by level is 0) or dim the light to a low level after the area is vacated	STAND-BY DIM	To set the output level of connected lighting during vacancy. The sensor will regulate the lighting output at the set level. Setting the STAND-BY DIM level at 0 means light full off during vacancy.
DAYLIGHT SENSOR	To represents various thresholds of natural light level for the Sensor .	STAND-BY TIME	To represents the time that the Sensor will keep the light at low dim level after the HOLD TIME elapsed.

Settings

Change multiple settings of sensor(s)

- Press **DISP** button, the remote control leds will show the latest parameters you set.
NOTE: if you push **ON/OFF** button before, you must push **AUTO** button to unlock the sensor.
- Press **▲** or **▼** enter in the setting condition, the parameter leds of remote control will flash to be selected, navigate to the desired setting by pressing **▲** **▼** **◀** **▶** to select the new parameters.
- Press **OK** to confirm all setting and saving.
- Aim at the target sensor and press to upload the new parameter, the led light which the sensor connects will on/off as confirm.
NOTE: the setting works key step is by Push **▲** or **▼**, enter in the setting condition.
NOTE: the led light which the sensor connects will on/off after getting the new parameter as confirm.
NOTE: If you press **DISP** button, the remote led indicators will show the latest parameters which were sent.

Button Operation

BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
ON/OFF	Press the ON/OFF button, the light goes to permanent on or permanent off mode, and the sensor is disabled. (MUST press AUTO button to quit this mode for Setting.	AUTO	Press AUTO button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.
DISP	Display the current/latest setting parameters in LED indicators(the LED indicators will on for showing the setting parameters).	TEST 2s	The button TEST is for testing purpose sensitivity only, after you choose sensitivity thresholds, then you press TEST button, The sensor goes to test mode(hold time is only 2s) automatically, meanwhile the stand-by period and daylight sensor are disabled, Press AUTO button to quit from this mode.
RESET	Press RESET button, all settings go back to settings of dip Switch in sensor.	◀ ▶	Navigate to LEFT and RIGHT for choose selected parameters in LED indicators.
▲ ▼	Enter in the setting condition, the parameter leds of remote control will flash to be selected, and Navigate to UP and Down for choose selected parameters in LED indicators.	OK	Confirm the selected parameters selected parameters in remote control.
SEND	Press SEND button, upload the current parameters to sensor(s), the led light which the sensor connects will on/off as confirm.	□	Open and close smart daylight Sensor. Press ▲ or ▼ Enter in the setting condition, the parameter leds of remote control will flash to be selected, Press □ for open or close smart daylight Sensor.
MODE1 MODE2 MODE3 MODE4	4 Scene modes with preset parameters which are available to be changed and saved in modes.		

Change multiple settings of sensors with smart photocell sensor Open

- Press **DISP**, the remote led indicators will show the latest parameters.
- Press **▲** or **▼** enter in the setting condition, the parameter Led indicators of remote control will flash to be selected.
- Press **□**, 2 led indicators will flash in daylight sensor settings, select daylight **10 30 50** as setpoint to light on Automatically, select daylight **100 300 500** as setpoint to light off Automatically.
- Press **OK** to confirm all setting and saving.
- Aim at the target sensor and press **SEND** to upload the new parameter. The led light which the sensor connects will on/off.

NOTE: **□** is disabled by default.

- Open or close the smart daylight sensor by push **□** when remote control is in setting condition.
- When the smart daylight sensor open, 2 Led indicators are flash in daylight sensor setting, select daylight **10 30 50** as setpoint to light on Automatically, select daylight **100 300 500** as setpoint to light off automatically. When smart daylight sensor close, 1 Led indicator is flash in the daylight sensor setting for choose daylight sensor threshold.
- When the smart daylight sensor open, the stand-by time is only **±∞**.
- Smart daylight sensor takes place of normal photocell sensor and works independently.
- See **Daylight Sensor Function**.