

## Integrated Low Voltage Daylight Harvesting / Bi-level PIR Motion Sensor

The ELMOPLX00SR is a compact size PIR sensor that combines occupancy sensing with photocell functionality. When used with 0-10V dim-to-off LED drivers, it enables any lighting manufacturer to deliver sensor-equipped fixtures with minimal engineering effort.

It operates on 12V DC which can be supplied by a LED driver, which will save OEM cost on the manufacturer side. Different modes can be selected according to the different applications through the ELMOPLX00SR-RM IR remote controller.

The integrated photocell can switch the lights on and off for dusk to dawn control, so that lights remains on overnight even without motion detection.

Under daylight harvesting mode, the auto-calibration function can control the amount of electric light by measuring the overall combined natural and electric light to achieve the desired light level.



### Model Number

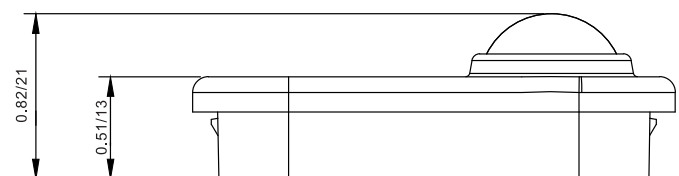
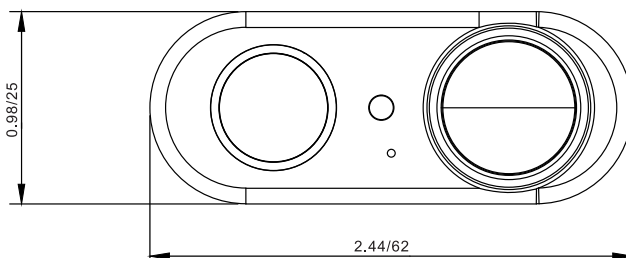
Model	Description
ELMOPLX00SR	Integrated low voltage Daylight Harvesting / Bi-level PIR motion sensor
ELMOPLX00SR-RM	Remote Controller

### Specifications

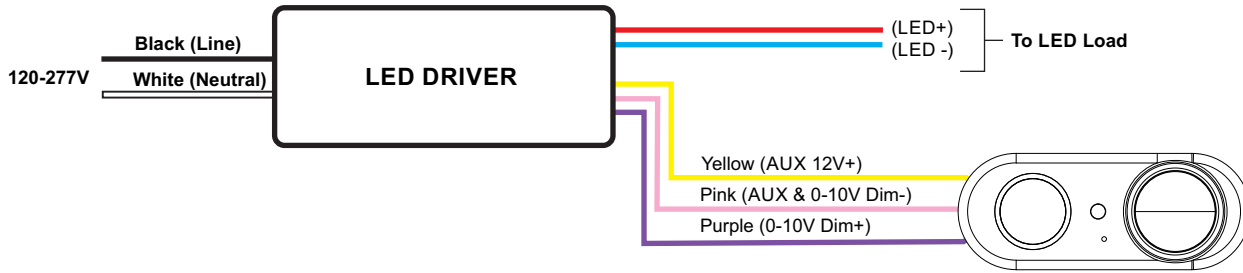
Input	DC12V, 8mA
Output	0-10V, 10mA
Dimming	0-10V, Compatible with Dim-to-off LED drivers, 0-10V dimming voltage of dim to off is 0V.
Detection Range	48ft
Mounting Height	15ft
IP Rating	IP20
Operating Temperature	-30°F~131°F (-30°C~55°C)
Certification	UL
Warranty	5 Years

### Mechanical Drawing

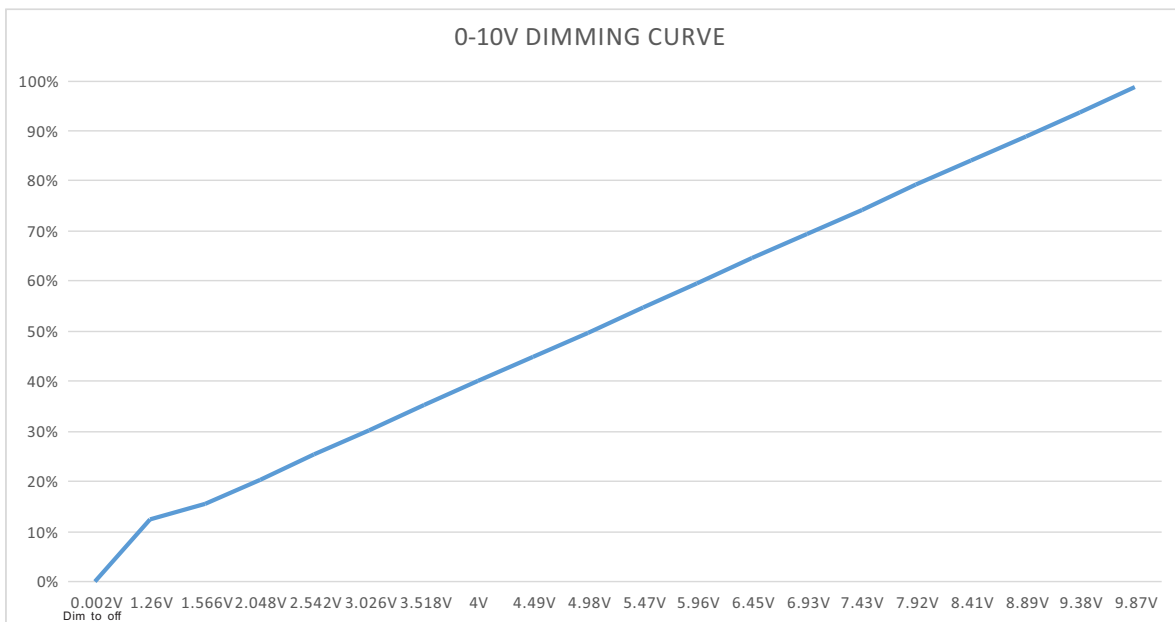
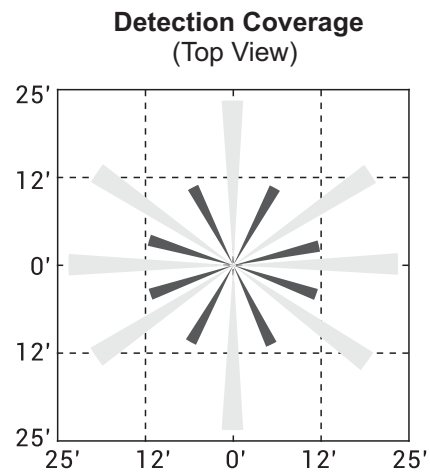
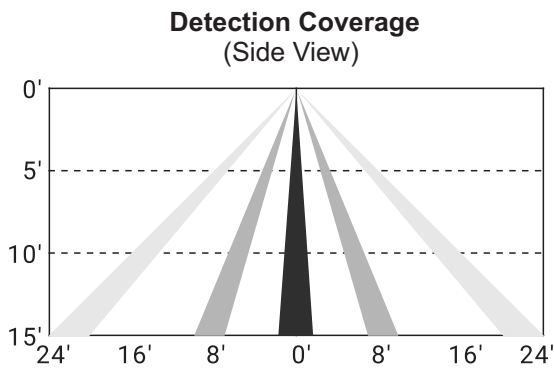
Unit: mm/inch



## Wiring Diagram



## Sensor Detection Graphs



## Remote Control Instructions

### 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 the appropriate buttons in the high lighted gray area of the remote control. (TRIM-LEVEL, SENSITIVITY, HOLD TIME, DIM, STANDBY TIME and PHOTOCCELL). Review selections and make changes as necessary.
4. Point the IR remote control in the direction of the desired luminaire for configuration and press "SEND".
5. If the configuration was successful, the luminaire will flash two times confirming the settings have been saved successfully. Any parameter change to the current saved settings on A through D will override previous settings and will be automatically saved on the remote.

If configuring multiple luminaires, select the configured memory mode A through D 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 the IR remote control in the direction of the desired luminaire.
2. Press "ON" then press "Dim+" or "DIM-" to adjust the dimming level.
3. Press "F". the indicator lights on the remote control 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 the configuration was successful, the luminaire will flash two times confirming the settings have been saved successfully.
- If configuring multiple luminaires, select the configured DAYLIGHT HARVESTING setting then follow steps 4 and 5.

### Reset Mode

Default Settings: Motion----> 100%; No Motion for 5 min----> dim to 30%; No motion for 60 min----> Off

## Remote Control Function Chart

ON	Turns On Luminaires
OFF	Turns OFF Luminaires
TEST	Test mode will last 5 mins then return to previous setting Test mode will hold time 2 seconds SDL 50% and standby time 2 seconds
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) / 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

## Specifications

Communication Method	Infrared
Battery Type	3V CR2032 Batteries (Qty. 2)
Flame Rating	HB
Operating Humidity	≤90% RH
Operating Temperature	0°C - 45°C (32°F - 113°F)

## Mechanical Drawing

Unit: mm/inch

