Neo-Ray products with Integrated Sensor technology provide automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. Neo-Ray luminaires deliver superior lighting with integrated PIR occupancy sensing and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the sensor delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The integrated daylight sensor reduces the need for special daylight zone planning. The luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

Neo-Ray luminaires with Integrated Sensors are easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

**How it works:**
- When a user enters under an integral sensor, the luminaire controlled by that sensor turns ON to the daylight level (default 500 lux).
- Lighting will remain at the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level (default matches occupied daylight level). This adjustable light level is often set to half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.

**STANDALONE INTEGRATED SENSORS IN NEO-RAY LUMINAIRES**

The Integrated Sensor is recommended only for individual fixtures.

**ORDERING INFORMATION**

**HOW TO SELECT:**
Replace the following catalog logic characters for compatible luminaires. Refer to luminaire specification sheet for catalog logic and options.

<table>
<thead>
<tr>
<th>Driver Type</th>
<th>DD, STD, or HCD = 0-10V dimming drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional sensor</td>
<td>SVPD1 = Standalone integral sensor factory installed</td>
</tr>
</tbody>
</table>

Note: The SV sensor is only compatible with 0-10V dimming drivers.

**EXAMPLE CATALOG LOGIC**
Without sensor: S123DP-235-SC48-ETG0048-1D-UDD-1-W
With sensor: S123DP-235-SC48-ETG0048-1D-UDD-1-W-SVPD1

Neo-Ray luminaires with the SVPD1 sensor option are all:
- cULus 1598 Listed
- Damp Location Listed
- IC Rated (where applicable)
- LM79/LM80 Compliant
- RoHS Compliant
STANDALONE INTEGRATED SENSOR LOCATIONS IN NEO-RAY LINEAR PRODUCTS

Sensors will be approximately located as shown on individual luminaires. For unit size availability, consult fixture specification sheet for details.

COVERAGE, SV OPTION INTEGRATED SENSOR

Recommended Mounting Height 8–12 ft.

SENSOR OPERATION

Factory Defaults

<table>
<thead>
<tr>
<th>Feature</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy Detection</td>
<td>Auto-on, Active</td>
</tr>
<tr>
<td>Default Occupancy Time Out</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Occupancy Sensitivity</td>
<td>High</td>
</tr>
<tr>
<td>Energy Saver Scene</td>
<td>100% - Daytime Occupied Scene</td>
</tr>
<tr>
<td>Fade Up Time</td>
<td>32% per second using &quot;Raise&quot;</td>
</tr>
<tr>
<td>Fade Down Time</td>
<td>24% per second using &quot;Lower&quot;</td>
</tr>
<tr>
<td>Default Daylight Harvesting Level</td>
<td>500 Lux</td>
</tr>
<tr>
<td>Default Unoccupied Light Level</td>
<td>Off</td>
</tr>
</tbody>
</table>

OPTIONAL REMOTE CONTROLS

ISHH-01 Programming Remote
The programming remote allows configuration of occupied, unoccupied, and energy saver light levels and occupancy time out period.

ISHH-02 Personal Control Remote
The personal control remote allows temporary control of dimming settings and scene selection. Light levels return to default upon occupancy time out.