## FLHS Series Linear High Bay Installation Guide





#### **Microwave Motion Sensor**

The Integrated Microwave Motion Sensor is a programmable motion detector. The default factory settings are as follows: Detection Area=100%, Hold Time=5 sec, Stand-By Period=5 sec, Daylight (Photo) Sensor=Disable, and Stand-By Dimming Level=10%.

Note: If the default settings are acceptable, the following steps can be skipped and one can continue onto the next page for the mounting installation.

● Turn over the FLHS Fixture showing the Lens side. Remove the Screws (2) from the Cover Panel. Next to where the Screws are removed, on one side, a flange extends into the Fixture Frame that is partially visible. Lift the opposite side of the cover slightly with a flat head screw driver or flat edge. Slide the Cover Panel away from the FLHS Fixture Frame to remove. The Fixture is now open to adjust the Motion Sensor setting. The process is the same for all FLHS Fixtures.



**2** The default settings can be changed by adjusting the DIP Switches on the Motion Sensor. Please refer to the table on this page and also directly on the Motion Sensor.



### Microwave Occupancy/Photo Sensor Bi-Level Dimming Function

FLHS features an innovative and programable motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. It can be mounted as high as 50ft. The sensors allow energy savings without compromising comfort. With its signature Bi-Level dimming function, it is perfect for use in areas that require a light change notice before totally switching off the light. Daylight (on/off) sensor is integrated for maximum energy saving.





With sufficient ambient light, the sensor will not turn on the lighting fixture.







After **Hold Time**, the sensor dims the fixture to a **Stand-by dimming level** if no new motion triggers.



After **Stand-by Period**, the sensor turns off the fixture if no motion is detected in its detection zone.

Includes: FLHS2D110, FLHS2D162, FLHS2D223, FLHS4D223, FLHS4D321, FLHS4D420

CAUTION: PLEASE FOLLOW THIS INSTRUCTION MANUAL CAREFULLY TO PREVENT ANY INJURIES OR COMPLICATIONS THAT MAY ARISE. WARNING: Before installing or maintaining the luminary, make sure all power is

TURNED OFF.

Verify that supply voltage is correct by comparing it with the label information on all fixtures.

Make all connections in accordance with the NEC requirements, and make sure all luminaries are properly secured to prevent any wire complications. This luminary is to always be installed with the lens facing down and it is not to exceed the maximum ambient temperature rating noted on the specification sheet.

#### **Microwave Motion Sensor Dip Pin Setting**

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



## Detection Area

Detection area having motion and not enough ambient light will activate the sensor. The sensor can be set at 100%, 75%, 50%, or 10%.

#### Hold Time

Hold Time refers to the time period the fixture remains at 100% illumination after motion is detected. Hold Time can range from 5s to 20 minutes. The fixture will remain at full illumination until 'Hold Time' ends, then reducing to Stand-By dimming level.

### Stand-By Period

The Stand-By period begins when the 'Hold Time' ends. The fixture remains at a Stand-By Dimming Level before it completely switches off while motion is not present. When set to " $+\infty$ " mode, the low led light is held until motion is detected.

#### Daylight (Photo) Sensor



The Daylight Sensor, measured in LUX can be set to allow the fixture to illuminate below a surrounding minimum ambient brightness threshold. The sensor can be set from 2 to 100 LUX. When set to Disable mode, the Daylight Sensor will switch on the fixture when motion is detected regardless of ambient light.



#### Stand-By Dimming Level

Stand-By Dimming Level is when 'Hold Time' has ended, there is no movement in the area and the light output is reduced. The Stand-By Dimming Level can be set at 50%, 30%, 20%, or 10%.

Connect the ACL and the ACN from the FLHS Fixture to the conduit with the AC Power Supply cords. Follow the Wiring Diagram provided.

AC Power Supply

PacLights

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The AC-LHS-PEM is the Pendant Mount that is for all FLHS Luminaire. The Pendant Mount is installed on the top side of the FLHS Luminaire and is used to run the Power Supply wires through a 1/2" conduit which is then fastened to the top side of the mount. The installation is the same for all FLHS Luminaire.



### **Clear Lens**

The AC-LHS-CL2FT is for the FLHS2D110 (Qty 2) and FLHS2D162/223 (Qty 4) Luminaire. The AC-LHS-CL4FT is for the FLHS4D223 (Qty 2) and FLHS4D321/410 (Qty 4) Luminaire. The installation process is the same for all FLHS Luminaire.



Placing the Clear Lens onto the FLHS Luminaire.



The FLHS frame has a flange on each side. The Clear Lens also has a flange on each side. This is where the Clear Lens can be placed by hand only! The Lens is flexible enough to install carefully without the need for tools onto the FLHS Luminaire.



**2** Angle the Lens and place above the inside flange. Rotate upwards and hand press carefully until the lens sets into place onto the FLHS Luminaire.



3 The Clear Lens properly set onto the FLHS Luminaire.





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