

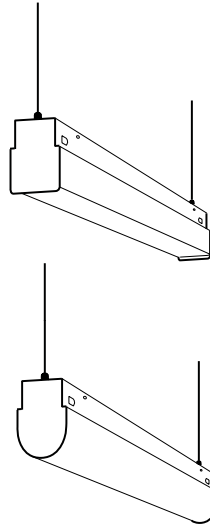
SS LED

LED INDOOR



Square

Round



APPLICATION

The LED slim strip light series are more efficient and compact. The LED technology used illuminates a crisper brightness while saving more energy to that of the traditional lights. Its functionality makes it a standard fixture used in storage areas, displays, institutions, industrial and retail applications.

FEATURES:

- Die-formed steel channel with knock-outs for versatile configuration and simple mounting.
- Available with 1 or 2 rows of LED, and in single unit lengths or as tandems.
- One continuous lens for 8-foot fixtures.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.

MOUNTING:

- Fixture is wall or surface mounted, or suspended mounted with chains, stems or cables.
- Joiner clip provided for easy continuous run.
- White metal belly band provided to eliminate light leak from space between lenses in continuous run.
- Compatible with most ceiling types.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 3000/3500/4000/5000 (K)
- Color Rendering Index: > 82.8
- 50,000 hours.

ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class2 circuit.
- 0-10V dimmable driver as standard.
- 0-10VDC dimming 1%~100%.
- Minimum starting temperature: -4°F (-20°C) ~ 122°F (50°C).

LISTING:

- UL/CUL listed and labeled.
- Suitable for damp locations.
- ARRA compliant (optional).
- 5 years warranty.

COMPATIBLE DIMMERS:

<LEVITON>
Leviton: IP710-LFZ

<LUTRON>
Nova: NFTV- dimmer plus PP-DV relay pack(s)
Nova T: NTSTV-DV-dimmer
Diva: DVTV-dimmer, DVSCTV-dimmer, plus PP-DV relay pack(s)
DVSTV-dimmer, DVSCSTV-dimmer
GRAFIK Eye QS: QSGRJ-XP, plus GRX-TVI 0-10V interface
GRAFIK Eye QS with EcoSystem: QSGRJ-XE, QSGR-XE, plus GRX-TVI 0-10V interface
PowPak: RMJ-5T

CONFIGURATIONS					
Series	Size	LED Watts	Color Temp.	System Lumen Output*	System Lumen Efficiency
SS	2FT	18W	5000K	2268	126 lm/W
		36W		4536	
	4FT	27W		3375	125 lm/W
		36W		4500	
		54W		6750	
	8FT	54W		6750	125 lm/W
72W		9000			
108W		13500			

* Calculated data from bare LED module.

ORDERING INFORMATION

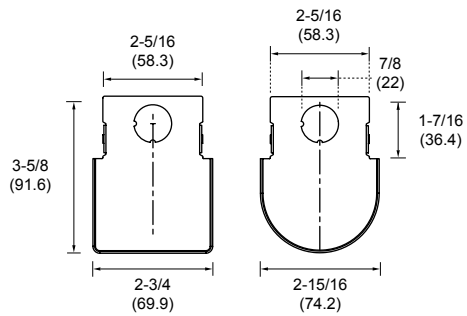
EXAMPLE: SS-4-L36/40-SC-UNV

MODEL	LENGTH	LED	COLOR TEMP.	DIFFUSER
SS	2' Length	L18 18W LED	/30 3000K /35 3500K /40 4000K (Std.) /50 5000K	Square SC (Clear Acrylic Lens) SF (Frosted Acrylic Lens)
		L36 36W LED		
		L54 54W LED		
	4' Length	L27 27W LED	/30 3000K /35 3500K /40 4000K (Std.) /50 5000K	Round RC (Clear Acrylic Lens) RF (Frosted Acrylic Lens)
		L36 36W LED		
		L54 54W LED		
	8' Length ¹	L54 54W LED	/30 3000K /35 3500K /40 4000K (Std.) /50 5000K	Round RC (Clear Acrylic Lens) RF (Frosted Acrylic Lens)
		L72 72W LED		
		L108 108W LED		
VOLTAGE		MOUNTING		CEILING TYPE
UNV 120-277V (Std.)		(Blank)	Ceiling Mount	X1 T-bar ceiling X2 Hard ceiling * Need to be specified for ACxx, SH-3/8-xx, SH-1/2-xx.
120V		VH	V-Hook	
277V		ACxx	Adjustable Aircraft Cable w/ Canopy	
		SH-3/8-xx	* xx = Specify length (48 or 96)	
		SH-1/2-xx	3/8" IPS STEM w/ Canopy	
			1/2" IPS STEM w/ Canopy	
			* xx = 18, 24, 36, 48 inches	
OPTIONS				
EMLED5MC	5W Emergency Ballast		ARRA	Assembled in USA for Buy American Act
EMLED7MC	7W Emergency Ballast		DPMS (FD-301)	Integrated Daylight Dimming Photosensor
EMLED10MC	10W Emergency Ballast ^{2,3}		AMS (FS-205)	Integrated Occupancy Sensor

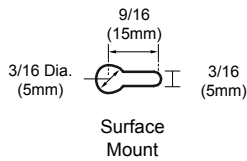
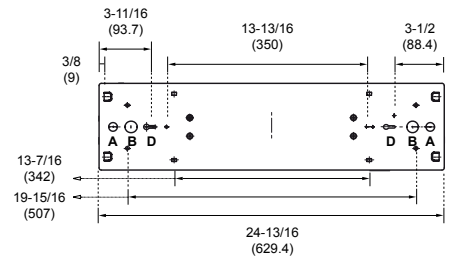
NOTES:

1. Tandem units.
2. Emergency Ballast options, see page 323.
3. Must specify voltage with factory.
4. Contact factory for custom wattage or lumen requirement.

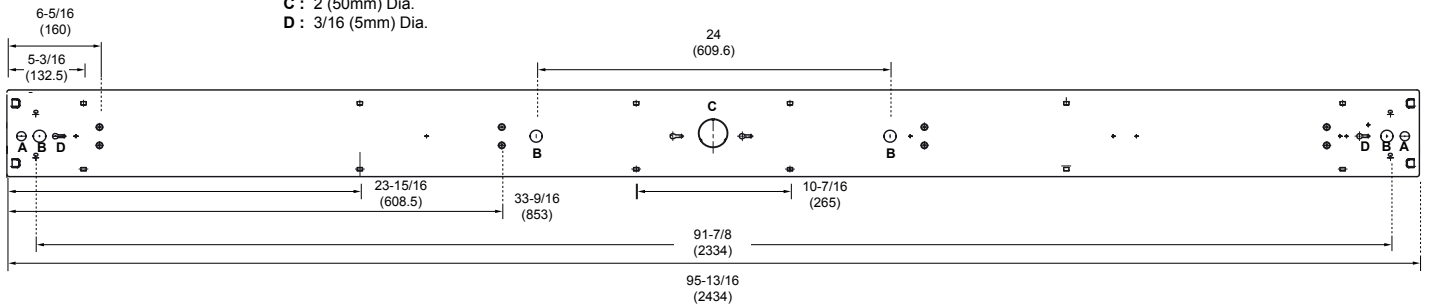
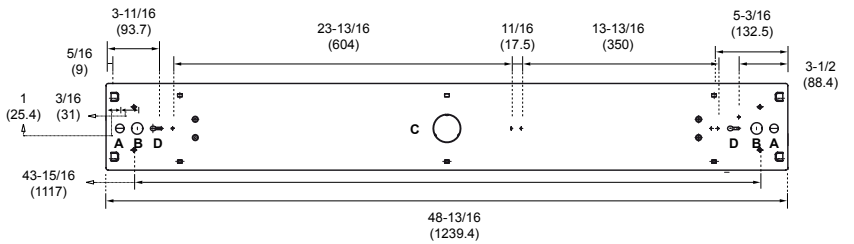
END VIEW



TOP VIEW

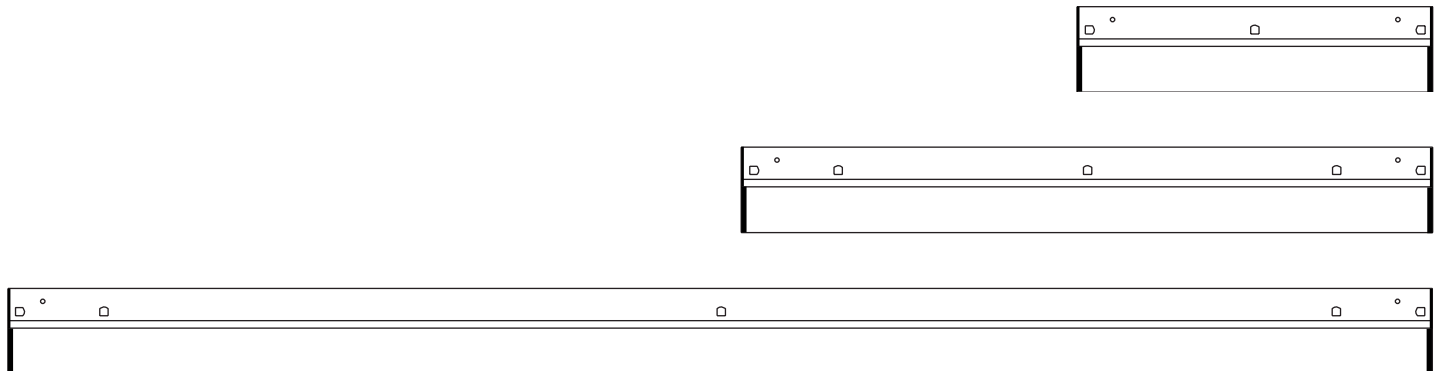


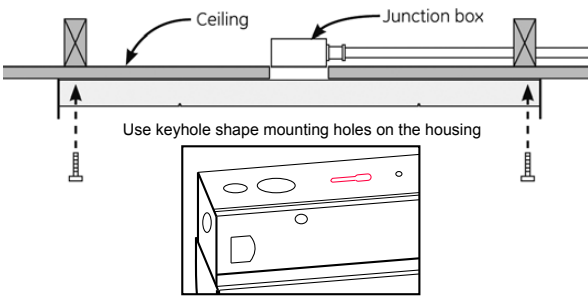
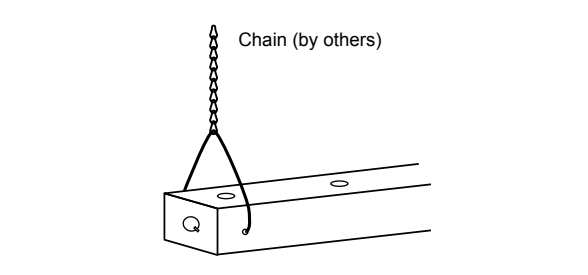
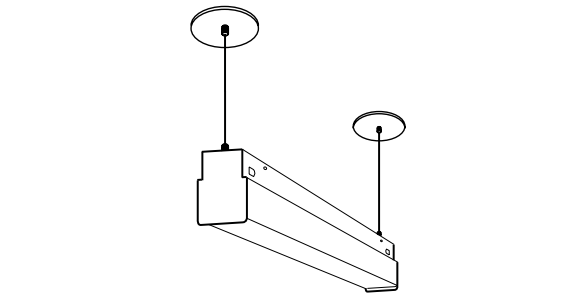
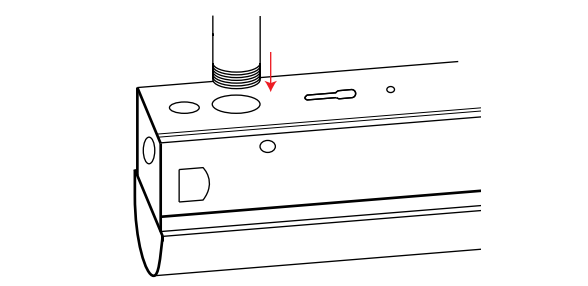
- A : 11/16 (17mm) Dia.
- B : 7/8 (22mm) Dia.
- C : 2 (50mm) Dia.
- D : 3/16 (5mm) Dia.



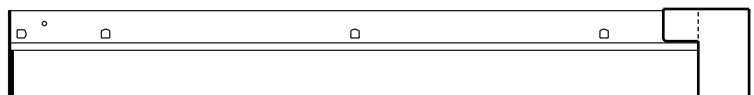
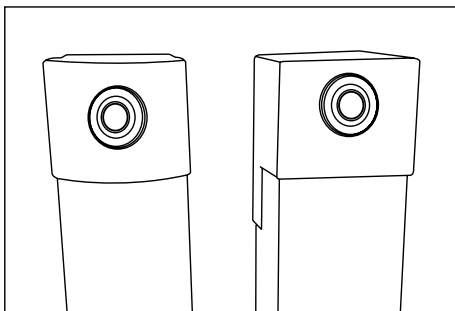
All dimensions are in inches (millimeters).

SIDE VIEW



Mounting Options	Image	Ordering Code
<p>Surface Mount (Ceiling / Wall)</p>	 <p>Ceiling</p> <p>Junction box</p> <p>Use keyhole shape mounting holes on the housing</p>	<p>(Blank)</p>
<p>V-hook for Chain Mount</p>	 <p>Chain (by others)</p>	<p>VH</p>
<p>Adjustable Cable Mount</p>		<p>ACxx</p> <p>xx = Length of Cable (48 or 96 inches)</p>
<p>Stem Mount (w/ Canopy)</p>		<p>w/ Canopy</p> <p>HOLE A : 3/8" IPS STEM [Example : SH-3/8-xx(length)]</p> <p>HOLE B : 1/2" IPS STEM [Example : SH-1/2lxx(length)]</p> <p>xx = 18, 24, 36, 48 (inches)</p>

* Cable / Stem mount provided with canopy set



2.125
(53.957)

DPMS

Integrated Daylight Dimming Photosensor

FD-301 Fixture Integrated Daylight Dimming Photosensor



Product Overview

Description

The FD-301 Fixture Integrated Daylight Dimming Photosensor is a low voltage controller that works with standard 0-10 VDC electronic dimming ballasts to control electric lighting in response to daylight.

Operation

A closed loop daylighting system, the FD-301 measures the total light level from daylight and electric light in the controlled area. The integral photocell measures only the narrow bandwidth of visible light to accurately report ambient light levels. Once commissioned, the FD-301 calculates the required light level for any given amount of daylight contribution based on two setpoints. One represents the target level when no daylight is present (night setpoint) and the other when significant daylight is present (day setpoint). Electric light output is automatically varied as the daylight level changes throughout the day to maintain the target light level. If specified, occupant controls may be used to temporarily adjust lighting levels without changing the setpoints. The FD-301 works with an FS-PP power pack.

Features

- Photocell uses photopic curve to accurately measure light as it is perceived by the human eye
- Provides precise control of lighting to maintain desired light level
- Separate handheld remote control for setup prevents tampering
- Boosts energy savings by reducing maximum lamp output, often resulting in a 20% reduction or more compared with lights at full output
- Optional occupant remote increases user satisfaction and often produces increased energy savings
- Achieves lumen maintenance by holding target light level as lamp output decreases over time

Adjustment Using Remote Controls

The FDR-301-S setup remote facilitates quick easy setup from ground level without tools. Raise and lower buttons are used to adjust target lighting levels for the day and night setpoints in the presence and absence of daylight. LEDs confirm setup operations.

An optional occupant remote control, LSR-301-P, includes raise and lower buttons to temporarily increase the target light level by up to 25% or reduce it to the lamp/ballast minimum level. An "Auto" button returns control to the programmed levels.

Applications

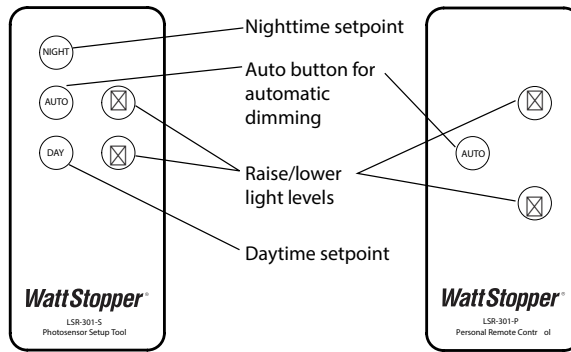
The FD-301 is designed for mounting in fluorescent lighting fixtures using 0-10 VDC electronic dimming ballasts. It is an ideal control choice for daylit locations that experience long periods of occupancy including private or open offices, classrooms and cafeterias. The FD-301 may be used with FS occupancy sensors for maximum energy savings.

Specifications

- Operating voltage: 24 VDC
- Current consumption: 9mA typical, 30mA peak
- Max sink current: 50mA
- Dimensions: 1.57" x .98" x .84" (40mm x 25mm x 21.4 mm) LxWxD
- Weight: 64.4 grams (2.27 ounces)
- Enclosure material: ABS
- Color: White
- Operating temperature: 0-40°C (32-104°F)
- Operating humidity: 5-95%, non-condensing
- Full range dimming: .2 VDC (minimum) to 10 VDC (100% lighting) output voltage
- Includes 6' (1.83m) lead with RJ45 connector and 1' (.3m) bare leads for 0-10 VDC signal
- Sliding setpoint control algorithm
- Five year warranty

Product Controls

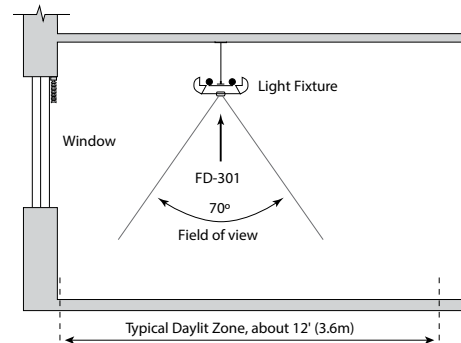
Handheld Remote Controls



Setup remote (left) enables easy setup while optional occupant remote (right) enables temporary adjustments for individual lighting preferences

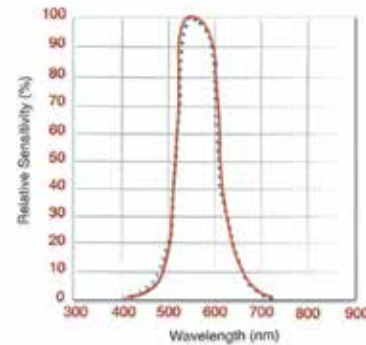
Sensitivity

Photosensor Spatial Response



The peak sensitivity of the FD-301 is a 70° field of view.

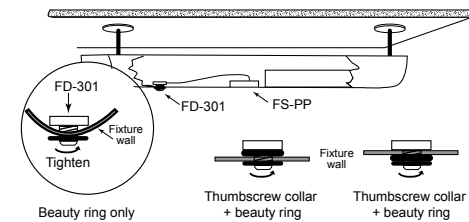
Photodiode Spectral Response



The spectral response of the photodiode closely matches the sensitivity of the human eye.

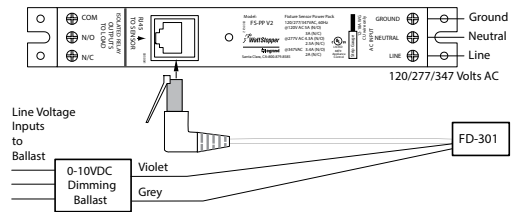
Installation & Wiring

Mounting and Installation



FD-301 photocell mounts in 3/4" diameter hole though the sheet metal in the bottom of the fixture.

Wiring



FD-301 lead connects to power pack, also mounted in fixture. For wiring diagram showing FD-301 and FS Occupancy Sensor, visit CAD Resources Center at www.wattstopper.com.

FS-205 Low Voltage PIR Fixture Integrated Occupancy Sensor

Modular plug system streamlines installation

Turn lights on and off based on occupancy

Hold off daylighting light level feature



Occupancy sensor that integrates into lighting fixtures

Compact lens gives unobtrusive appearance in even the smallest fixtures

Product Overview

Description

The FS-205 Low Voltage Passive Infrared (PIR) Fixture Sensor controls lighting based on occupancy. It is designed with a low-profile, architecturally pleasing appearance to easily integrate into lighting fixtures or a customized housing. The modular plug-in system utilizes an RJ45 connector on a low-voltage 6-ft. cord for installation flexibility, and to quickly link to a remote-mounted power pack.

Operation

When connected to an FS-PP Power Pack, the FS-205 sensor operates at 24 VDC to detect occupancy. Utilizing the latest PIR technology to detect the difference between heat emitted from the human body in motion and the background space, the FS sensor signals the FS-PP to close its relay and turn on the connected load. After the defined area is vacated and the adjustable time delay (30 seconds to 30 minutes) has elapsed, the sensor signals the FS-PP to open its relay and turn off the connected load.

Hold-off Daylighting

The hold-off daylighting light level feature provides additional energy savings. Once the lights turn off after the time delay has elapsed, this feature holds lighting off upon new occupancy if there is sufficient ambient light available (adjustable from 10-120 fc).

Applications

The FS-205 provides a 360° coverage pattern for up to 200 square feet when mounted at 8 feet. The sensor works well in a small office, cubicle or utility room. The FS-205 is little enough to be easily integrated into even the smallest housings when zonal control of direct/indirect fixtures is required.

Features

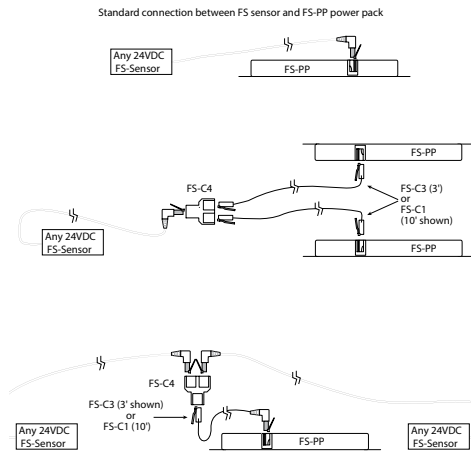
- Low-voltage 6-ft. whip with an RJ45 connector for easy installation
- Small footprint fits easily in fixtures
- Adjustable time delay (30 seconds to 30 minutes)
- Fresnel lens for accurate detection patterns
- LED indicator of occupancy detection for easy verification of coverage
- Hold-off daylighting control
- RoHS compliant

Specifications

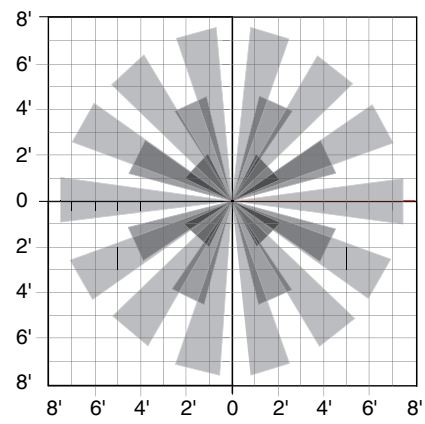
- 24 VDC
- Coverage pattern at 8 ft.: 16' (487.7cm) diameter
- Adjustable time delay (30 seconds to 30 minutes)
- Hold-off daylighting light level, adjustable from 10-120 fc
- Operating temperature 32-131°F (0-55°C)
- Dimensions:
 - throat: 0.75" (19mm) diameter
 - lens collar: 1.12" (28.5mm) diameter
 - lens pipe: .38" (9.7mm)
 - sensor body: 1.12" x 1.38" x .5" (28.5mm x 35mm x 12.7mm)
- UL and cUL listed
- Five year warranty

Wiring & Coverage

FS Low Voltage Wiring



Coverage Pattern @ 8 ft Mounting Height



FS-205 and FS-PP Wiring Diagram

