

HIGH/LOW/OFF PIR OUTDOOR MOTION/PHOTO SENSOR IN IP66 ENCLOSURE FOR FLEXIBLE MOUNTING

FSP-2X1B

Designed for LED fixtures and rated for extreme temperatures; options for box or pole mounting

Fully adjustable high and low dimmed light levels

Hold off setpoint with automatic calibration option for convenience and added energy savings



Adjustable via handheld wireless configuration tool

IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 40'

Adjustable time delay and cutoff delay



Description

The FSP-2x1B sensors provide multi-level control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles. The FSP-2x1B family is available in three configurations for mounting inside a fixture, to the outside of a fixture via a 1/2" knockout, or to a pole.

Operation

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

Features

- Provides line voltage On/Off switching and 0-10VDC dimming control (FSP-211B and FSP-221B)
- Works with ballasts or LED drivers
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional cut off delay
- Adjustable ramp up and fade down times
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment
- Optional shroud with integrated lens to block high-angle light
- Configuration tool stores six sensor profiles for quick setup and adjustment of multiple sensors (order FSIR-100 separately)
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable
- UL244A and UL508; IP66 rated (when fully assembled and installed) for use in wet locations
- This product meets the materials restrictions of RoHS

*PEP designation applies to FSP-211B and FSP-221B only

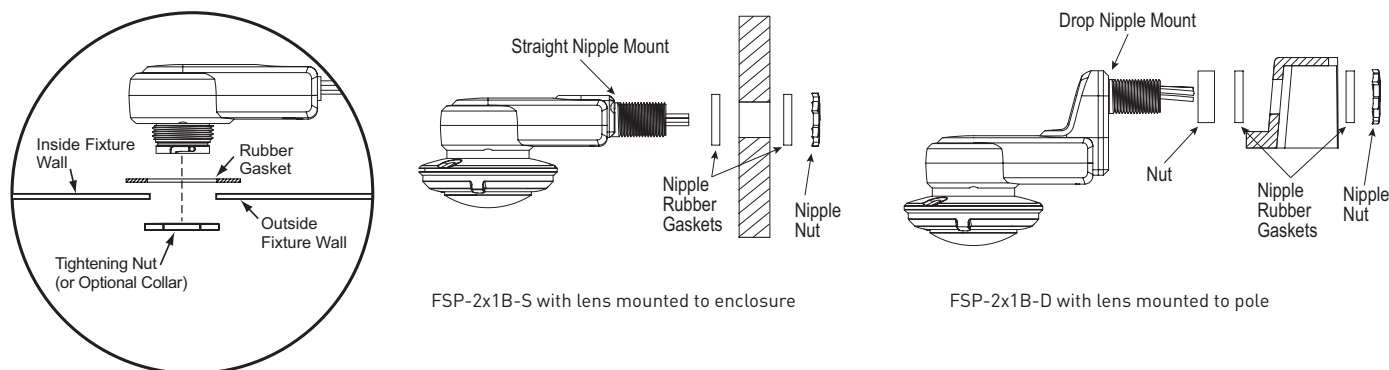
PROJECT		LOCATION/ TYPE	
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Specifications

- Input voltage:
 - FSP-201B, 12-32VDC
 - FSP-211B, 120/277VAC; 50/60Hz
 - FSP-221B, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase); 50/60Hz
- Load ratings (FSP-211B, FSP-221B):
 - @120VAC 0-800W tungsten, ballast, LED driver; 1/6hp motor
 - @230-240V 0-300W ballast, LED driver
 - @277VAC 0-1200W ballast, LED driver; 1/6hp motor
 - @347/480V 0-1200W ballast, LED driver; 1/6hp motor (FSP-221B only)
- Relay life rating (FSP-211B & FSP-221-B): 200,000 cycles (120/277VAC); 50,000 cycles (230VAC)
- High mode: 0-10V; default 10V
- Low mode: Off, 0-9.8V; default 1V
- Time delay: 30 sec., 5-30 min.; default 5 min.
- Cut off delay: none, 1-60 min. 1-5 hrs.; default 1 hr.
- Sensitivity: none, low, med, max; default max
- Setpoint: none, 1-250 fc, auto; default disabled
- Photocell On/Off: 1-250 fc; default disabled
- Ramp up time: none, 1-60 sec.; default none
- Fade down time: none, 1-60 sec.; default none
- Lead length: 30" (76 cm)
- Operating temperature: -40 to 167°F (-40 to 75°C)
- Dimensions: Body, no nipple, 4.13"L x 2.32"W x 1.29"H (105mm x 58.8mm x 32.8mm); -S body 5.5"L x 2.32"W x 1.36"H (139.7mm x 58.8mm x 34.4mm); -D body 5.71"L x 2.32"W x 2.79"H (145mm x 58.8mm x 70.74mm); Collar (all models), 1.3" dia. x 0.64"H (33mm x 16.3mm)
- Weight: FSP-201B, 4.8 oz (136 grams); FSP-211B & FSP-221B, 6.7oz (190 grams)
- IP66
- UL and cUL listed (E101196)
- Five year warranty

Installation and Wiring

Sensor Mounting Options

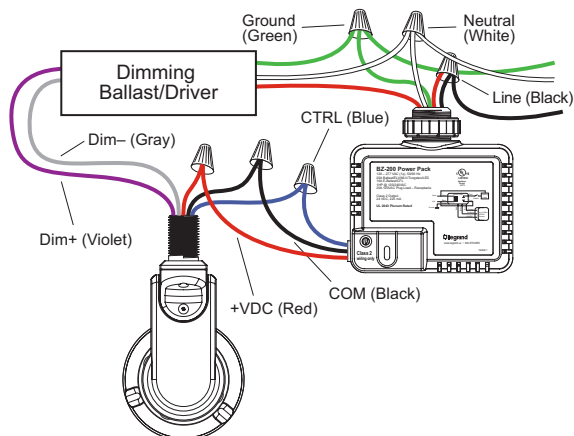


FSP-2x1B fixture mount model with no nipple or lens

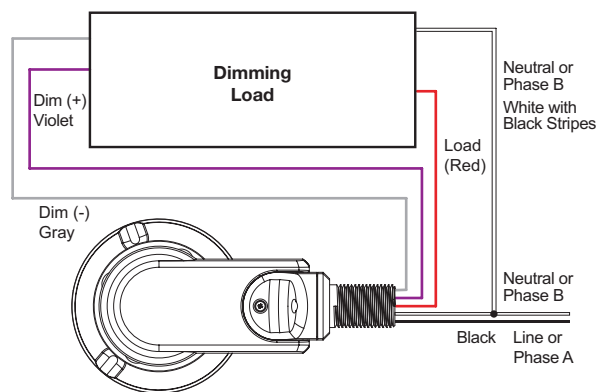
An optional collar can be installed in place of the tightening nut on the FSP-2x1B. This collar is included with the FSP-2x1B-S and FSP2x1B-D

An optional shroud with integrated lens can be installed instead of the collar and a regular lens. The shroud blocks high-angle light coming from the fixture, to improve photocell performance.

Dimming Wiring Examples



Low voltage FSP-201B-S with power pack for on/off; sensor also works with Dim-to-Off ballast or driver.



Line voltage FSP-2x1B-S wiring with dimming ballast or LED driver.

Ordering Information

Catalog #		Color	Description	Input Voltage
	FSP-201B	White	Fixture Mount PIR sensor, low voltage, no nipple or lens	12-32VDC
	FSP-211B	White	Fixture Mount PIR sensor, line voltage, no nipple or lens	120/277VAC, 50/60Hz
	FSP-221B	White	Fixture Mount PIR sensor, universal voltage, no nipple or lens	100-347VAC or 208/230/480VAC
	FSP-L2	White	360° lens, maximum coverage 48’ diameter from 8’ height	
	FSP-L2-B	Black		
	FSP-L2-BR	Brown		
	FSP-L2-G	Gray		
	FSP-L2-S	White	360° lens, maximum coverage 48’ diameter from 8’ height, with shroud; Minimizes high-angle light contribution to photocell	
	FSP-L3	White	360° lens, maximum coverage 40’ diameter from 20’ height	
	FSP-L3-B	Black		
	FSP-L3-BR	Brown		
	FSP-L3-G	Gray		
	FSP-L3-S	White	360° lens, maximum coverage 40’ diameter from 20’ height, with shroud; Minimizes high-angle light contribution to photocell	
	FSP-L7	White	360° lens, maximum coverage 100’ diameter from 40’ height	
	FSP-L7-B	Black		
	FSP-L7-BR	Brown		
	FSP-L7-G	Gray		
	FSP-L7-S	White	360° lens, maximum coverage 100’ diameter from 40’ height, with shroud; Minimizes high-angle light contribution to photocell	
	FSP-C1-W	White	Aesthetic collar to transition from fixture housing to lens, for use with FSP-L2 and FSP-L3 lenses Note: Not used with lenses that include shroud (Optional for FSP-2x1B models above. Included with -D and -S models ordered below)	
	FSP-C1-B	Black		
	FSP-C1-BR	Brown		
	FSP-C1-G	Gray		
	FSP-C2-W	White	Aesthetic collar to transition from fixture housing to lens, for use with FSP-L7 lens Note: Not used with lens that includes shroud (Optional for FSP-2x1B models above. Included with -D and -S models ordered below)	
	FSP-C2-B	Black		
	FSP-C2-BR	Brown		
	FSP-C2-G	Gray		

Note: Unless used with a driver or ballast with a low voltage power supply, the FSP-201B requires a Wattstopper power pack (ordered separately) to operate.
FSP-Lx series lens required for operation; order lens separately if ordering models listed above.
FSIR-100 required for configuration; order separately.

To order -S or -D model sensor, select one option from each column below and combine part numbers (as example, FSP-201B-S-L2-B)			
Pole or Box Mount Sensor Voltage	Nipple Configuration	Lens Option	Color
☐ FSP-201B, 12-32VDC sensor	☐ -S, Straight Nipple	☐ -L2, 360° lens, max coverage 48' diameter from 8' height	☐ -B, Black
☐ FSP-211B, 120/277VAC sensor	☐ -D, Drop Nipple	☐ -L3, 360° lens, max coverage 40' diameter from 20' height	☐ -BR, Brown
☐ FSP-221B, 100-347VAC or 208/230/480VAC sensor		☐ -L7, 360° lens, max coverage 100' diameter from 40' height	☐ -G, Gray
			☐ -W, White