

Solo Sensor

PIR Occupancy Sensing and Daylight Harvesting





Description

The Solo Sensor (ZLSO5) is a 0-10V dimming Passive Infrared (PIR) occupancy and daylight harvesting sensor designed to be installed directly into a light fixture for standalone lighting control. Configure output settings and dimming profile using DIP switches or access additional features using the ZLSOR remote control.

The ZLS05 integrates PIR occupancy sensing and photocell technology in a single compact unit. Install the ZLS05 into linear strip and pendant lighting, existing downlights, troffers and other general lighting fixtures for standalone control that complies with energy codes.

Applications

- Luminaire level lighting control
- · Occupancy and light level sensing
- 0-10V dimming
- · Open offices
- Warehouses
- Manufacturing

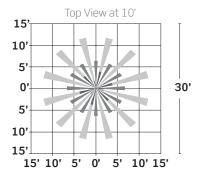
Features

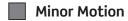
- 0-10V dimming
- Occupancy sensing
- Daylight harvesting
- Partial-ON
- Partial-OFF
- IR remote configurable
- 8'-10' mounting height
- IP20 rated
- Intellect products are listed on the DesignLights Consortium® (DLC) Qualified Product List (QPL) when used as part of a GreenMAX DRC System
- Can be used to comply IECC, ASHRAE 90.1 and 2022 Title 24, Part 6 dimming, occupancy/vacancy sensing and daylight harvesting requirements



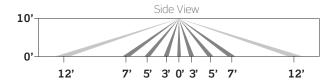
Product Data ZLS05-ILW

Field-of-View

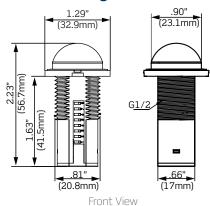








Dimensions Diagram

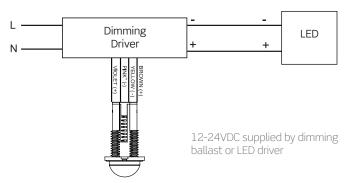


97"
(24.8mm)
Side View

G1/2

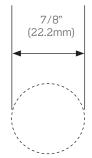
Top View

Wiring Diagram



* Depending on manufacture date, pink wire may be gray

Installation Requirements



- 1. 0-10V dim-to-OFF driver with AUX port power supply
- 2. 7/8" diameter round punch hole in fixture see diagram



DIP Switch Settings

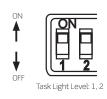
- Task Level—set desired task level and the built-in daylight sensor will measure ambient light to determine how much artificial light is needed
- Occupied Time Out—set desired time out period and the light will remain ON until the time out expires. Any motion in the space will restart the time out period.
- Standby Light Level (Partial-OFF)—set desired standby level to dim lights after the occupied time out had expired
- **Standby Time**—set desired standby time to keep lights at standby level until the time period expires or when motion is detected

• Default Settings

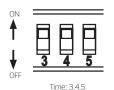
• Task Level: 100%

Occupied Time Out: 10 secStandby Light Level: 20%

• Standby Time: 30 min

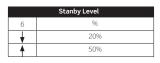


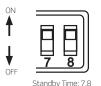
Task Light Level		
1	2	%
+	+	70%
\	†	80%
†	+	90%
†	†	100%



		Time	
3	4	5	
+	₩	₩	10 seconds
+	↓	†	30 seconds
+	+	\	1 minute
+	†	†	3 minutes
†	₩	\	5 minutes
†	₩	†	10 minutes
1	+	\	15 minutes
A	+	†	30 minutes



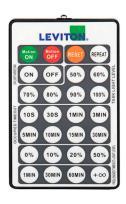




Standby Time			
7	8		
+	+	1 minute	
\	†	30 minutes	
†	+	60 minutes	
†	†	+ 00	

IR Remote Button Configurations

	_	
(Motion OFF)	•	Enable/Disable Occupancy Sensor—Daylight Harvesting continues to operate if enabled
RESET) REPEAT	•	Reset parameters to DIP switch settings Copy and repeat last parameters set
ON OFF	•	Enable/Disable Daylight Harvesting—Occupancy Sensor continues to operate if enabled
(70%) (80%) (90%) (100%) (80%) (80%) (100%)	•	Set desired task level—Two additional levels: 50% and 60% available using IR remote
10S (30S) (1MIN) (3MIN) (5MIN) (10MIN) (15MIN) (30MIN)	•	Set desired occupied time out
0% (10%) (20%) (50%) THE STATE OF THE STATE	•	Set stand-by light level—Two additional levels: 0% and 10% available using IR remote
0% 10% 20% 50% Bast Legs rooted to the control of	•	Set stand-by prolonged time out



Product Data ZLS05-ILW



Specifications

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Electrical	
Input Power	12V-24VDC, 50mA
Dim Control Output	0-10V, 30mA sinking
Cable Length	39.37" (1000mm
Environmental	
Operating Temperature Range	-4° to 158°F (-20° to 70°C)
Other	
Mounting Height	8' to 10' (2.43m to 3.04m)
Detection Angle	120°
Energy Codes	Can be used to comply with IECC, ASHRAE 90.1 and 2022 Title 24, Part 6 dimming, occupancy/vacancy sensing and daylight harvesting requirements
Listings	cULus, listed on the DesignLights Consortium® (DLC) Qualified Product List (QPL) when used as part of a GreenMAX DRC System
Rating	IP20 Rated
Warranty	5-year Limited

Ordering Information

oracim6 information	•
Product Name	
Cat. No.	Description
ZLS05-ILW	Solo PIR and Daylight Harvesting Sensor, fixture embedded. 12-24VDC input voltage, 30mA sinking. Mounting height 10ft max. Programmable via DIP Switches to adjust task level, time-out, standby level and time. Optional IR remote (Cat. No. ZLSOR-RA1) for additional control functionality. Requires 0-10V dim-to-off driver. Color: White.
ZLSOR-RA1	Optional Solo Sensor IR Remote

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