project name	type
catalog number	voltage
approved by	date

SEN BLUETOOTH® MESH: OVAL SNAP-IN PIR MOTION SENSOR

Bluetooth® Mesh-enabled Oval Snap-In PIR lighting sensor with integrated occupancy and daylight control. Designed for EiKO controls-ready panels, it enables intelligent, networked lighting management through the Silvair platform for flexible and scalable installations.

SILVAIR IP20 DIMMABLE 5 YR LIMITED WARRANTY UL CERTIFIED

FEATURES AND BENEFITS

BLUETOOTH® MESH CONNECTIVITY:
Enables wireless, networked lighting control through Bluetooth Mesh communication, allowing devices to share occupancy and daylight data across the system for optimized energy management.

CONTROLS-READY INTEGRATION:
Designed for EiKO controls-ready panels, including BP1-CRO flat panels, for effortless plug-and-play installation and easy transition to connected smart lighting networks.

PRECISION OCCUPANCY & DAYLIGHT SENSING:
Advanced 360° PIR bi-level detection senses both major and minor motion, while integrated daylight sensors provide automatic light level adjustment for consistent illumination and energy savings.

SILVAIR-ENABLED SMART COMMISSIONING:
The free **Silvair iOS/Android App** enables simple onsite commissioning—configuring zones, groups, and profiles with adjustable trim levels and personal control. Optional **Silvair Web App** pre-planning allows offsite setup of areas, profiles, and lighting behaviors such as occupancy, daylight harvesting, and time delays. No hubs or gateways are required—devices form a secure Bluetooth® Mesh network that supports easy integration of additional BLE components including controllers, sensors, and range extenders. Firmware updates are supported over the air via the Silvair App.

CONFIGURABLE OPERATION:
Field-adjustable settings for brightness, dim level, sensitivity, hold time, and fade time. Supports occupancy or daylight-only operation for flexible application control.

QUICK COMMISSIONING & MAINTENANCE:
Simplified setup via Silvair mobile or web apps; field reconfiguration and firmware updates can be performed wirelessly, minimizing downtime.

SPECIFICATIONS & CERTIFICATIONS

PERFORMANCE:
- Recommended Mounting Height: 8–12 ft
- 360° Coverage Pattern

ELECTRICAL:
- Input Voltage: 10-14 VDC
- Input Current: 50 mA
- Dimming Interface: 0–10 V
- Wireless Interface: Bluetooth® Mesh (2.4 GHz)
- Remote Configuration: Via Silvair App

THERMAL:
- Operating Temperature: -4°F to 140°F (-20°C to 60°C)

CONSTRUCTION:
- Snap-in field installation
- IP20 Rated

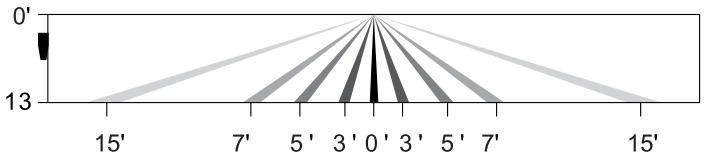
CERTIFICATIONS:
- UL Listed (U.S. & Canada)
- RoHS Compliant
- Rated for Damp Locations

WARRANTY:
- 5-Year Limited Warranty
- Contact your EiKO sales representative for more information

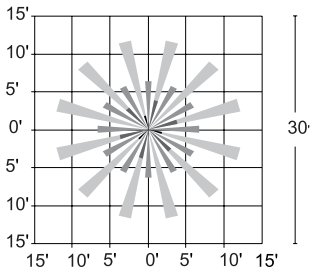
ORDER CODE	NAME	DESCRIPTION	VOLTAGE (V)	MOUNTING HEIGHT	BLUETOOTH RANGE	CONTROLLED BY
16302	SEN-WOSI-PIR-A	Network PIR Sensor (Bluetooth Low Energy)	10-14VDC	12ft max	100ft (30m)	Silvair App (Android, iOS, Web)

 World Headquarters: 18000 W. 105th Street, 3rd Floor, Olathe, KS 66061 1.800.852.2217
Head Office, Canada: 7900 Goreway Dr Unit 8, Brampton, ON L6T 5W6 1.888.741.2673

SENSOR DETECTION COVERAGE



Coverage Side View



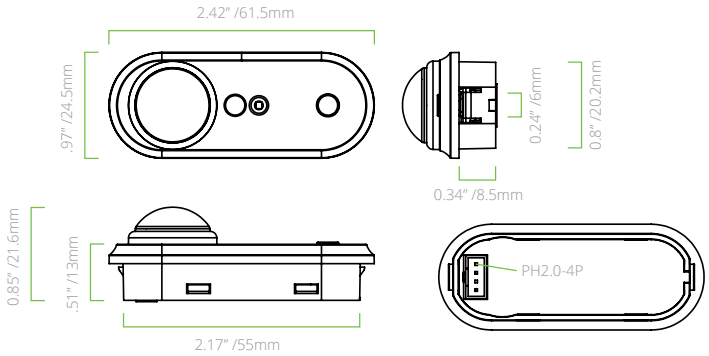
Coverage Top View

Minor Motion

Major Motion

Note: *For the best performance, it is recommended to mount the sensor between 8-12ft in height. Low mounting can result in narrow detection coverage, while mounting the sensor higher than 20ft may limit detection coverage to only the sensor center cone area.*

PRODUCT DIMENSIONS

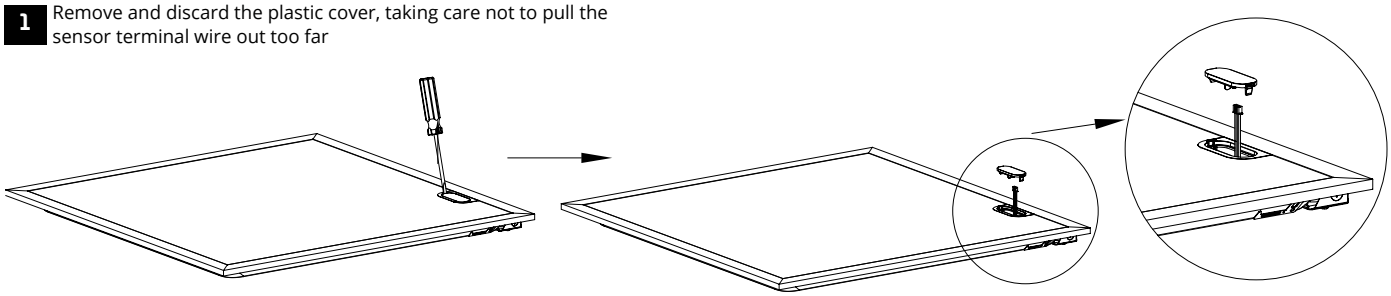


CONTROLS READY

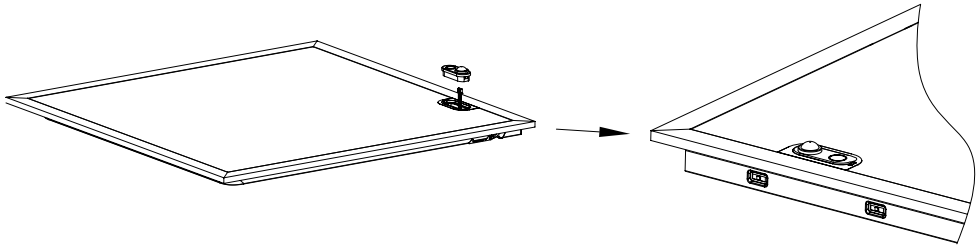
SNAP-IN INSTALLATION

SNAP-IN INSTALLATION

1 Remove and discard the plastic cover, taking care not to pull the sensor terminal wire out too far



2 Attach the quick connector to the sensor then insert the sensor into the receptacle.

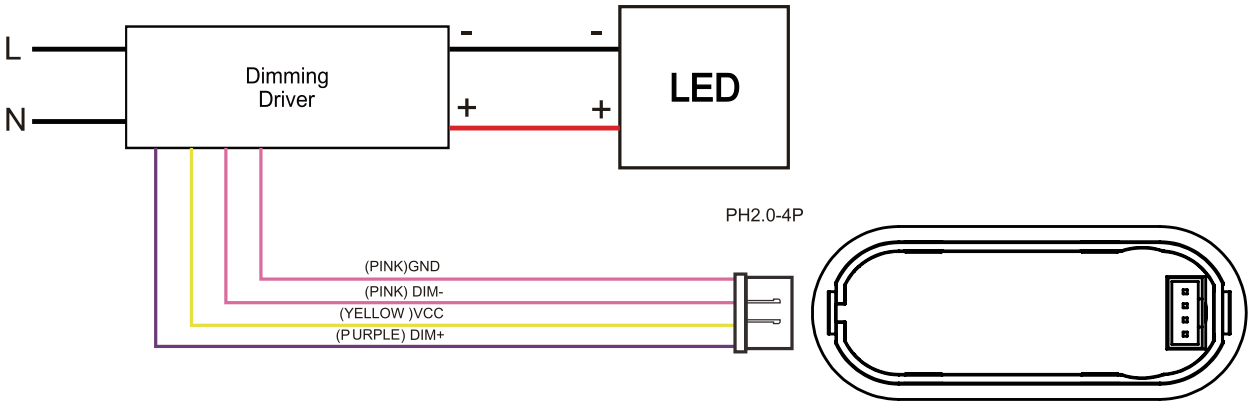


CONTROLS READY

WALL SWITCHES/CONTROLLER ACCESSORIES

ORDER CODE	MODEL	DESCRIPTION	IMAGE
SELF-POWERED WIRELESS WALL SWITCHES			
12654	ESRPB-W-EO	Single - Bluetooth self-powered kinetic rocker switch White, Wall plate included	 
12655	EDRPB-W-EO	Double - Bluetooth self-powered kinetic rocker switch White, Wall plate included	
WIRELESS 120-277V WALL CONTROLLERS			
12635	PSC-DM-WS-100-BLE-SR	Bluetooth Single Gang Single Button Wall Controller, 120-277V White, Parameters set by Silvair App.	  
12636	PSC-DM-I-WS-100-BLE-SR	Bluetooth PIR Occupancy/ Vacancy Sensor, 120-277V, Single Gang Wall Controller, White, Parameters set by Silvair App.	
12637	PSC-DM-WS-400-BLE-SR	Bluetooth 4-Button Wall Controller, 120-277V, Single Gang, White, Parameters set by Silvair App.	

WIRING DIAGRAM



PAIRING AND COMMISSIONING:

Please refer to the Silvair Commissioning User Manual for pairing and commisioning instructions.
Download it at https://silvair-documents.s3.eu-west-1.amazonaws.com/SN-200_Silvair_Commissioning_user_manual.pdf or scan the QR code below.

To access Silvair apps.

Mobile App: Silvair on the App Store and Google Play

Download on the App Store

GET IT ON Google Play

Web App: platform.silvair.com

RESETTING A PAIRED SENSOR:

1. Place Magnet or Press Reset Key: With the sensor powered on, place a strong magnet on the top of the sensor or press and hold the reset key located behind the sensor for about 5 seconds.
2. Confirm Reset: The LED Fixture will blink twice, indicating the sensor has been successfully reset.

FCC STATEMENT:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  (1) This device may not cause harmful interference.
  (2) This device must accept any interference received, including interference that may cause undesired operation.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  (1) this device may not cause harmful interference, and
  (2) this device must accept any interference received, including interference that may cause undesired operation.
- **Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of theFCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  -Reorient or relocate the receiving antenna.
  -Increase the separation between the equipment and receiver.
  -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
  (1) This device may not cause interference.
  (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
  (1) L'appareil ne doit pas produire de brouillage;
  (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- To satisfy FCC&IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne.