# GRX-IRPS-WH Partition Sensor

Description

The GRX-IRPS Partition Sensor uses an infrared transmitter/receiver pair to detect partition movement and, in conjunction with other Lutron products, coordinates lighting preset functions in areas such as partitioned meeting rooms or ballrooms. The GRX-IRPS may be used with Athena, Quantum, Energi Savr Node, GRAFIK Eye QS, GRAFIK 3000, and GRAFIK 4000 systems.

Features

- Automatically combines lighting preset functions when partition is open creating one large space.
- Lighting preset functions become independent as partition is closed creating several smaller spaces.
- For operation with Quantum and Athena systems, the GRX-IRPS requires either an interface (QSE-IO) or wallstation with contact closure input (QSWS2-, QSWA-, or similar) and a power supply (GRX-12VDC or PP-DV).
- For operation with GRAFIK Eye QS or Energi Savr Node systems, the GRX-IRPS requires an interface (QSE-IO) and a power supply (GRX-12VDC or PP-DV).
- For operation with GRAFIK Eye 3000/4000 system, the GRX-IRPS requires an interface (GRX-IO) and a power supply (GRX-12VDC or PP-DV).
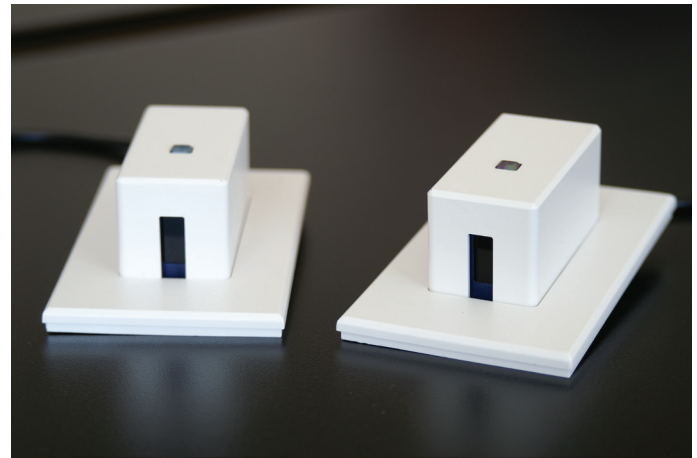
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Specifications

Power

- Operating voltage: Low-voltage PELV (Class 2: USA) 12–24 V⎓, 135 mA.
  - Lutron recommends using a GRX-12VDC plug-in power supply or a PP-DV power supply (both ordered separately).
    - One GRX-12VDC can supply power to eleven sensor transmitter / receiver pairs.
    - One PP-DV can supply power to one sensor transmitter / receiver pair.
- Transmitter and receiver have reverse polarity and short-circuit protection.

Sensor Status Indicator

- Receiver and transmitter includes an LED indicator that assists in sensor alignment during installation and provides sensor operating status.

  - Transmitter LED will be green when properly powered and transmitting

  - Receiver LED will be orange when receiving beam and not illuminate when blocked.

System Capacity

- Each GRX-IO or QSE-IO Interface (prefix QSWS2-, QSWA-, or similar; ordered separately) can accommodate up to five GRX-IRPS partition sensors for five different moveable walls.
- Each seeTouch wallstation (ordered separately) can accommodate one GRX-IRPS partition sensors for one moveable wall.
- Contact closure output from GRX-IRPS is configurable to normally open or normally closed from receiver unit.

Connection

- Wire leads provided.

Finish

- White painted plastic.

Environment

- 32 °F–104 °F (0 °C–40 °C). Relative humidity less than 90% non condensing.

Mounting
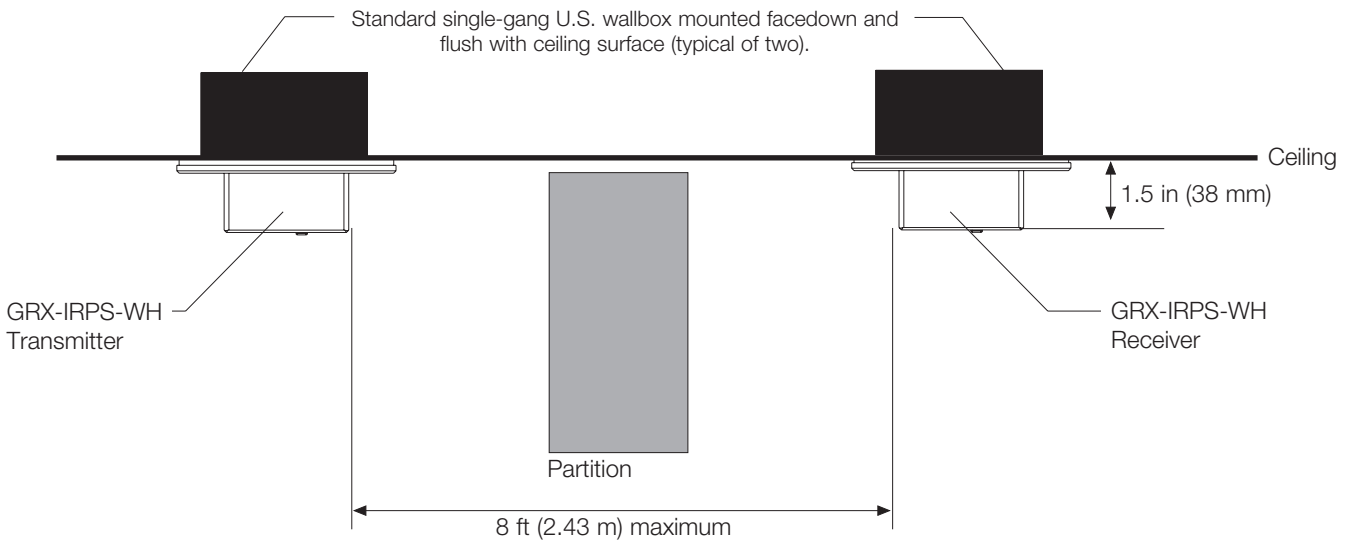
- Surface mount indoors only.

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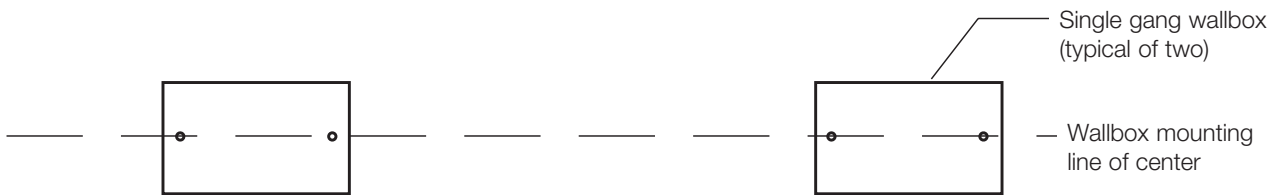| Job Name:	Model Numbers:
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Dimensions and Mounting

- Receiver and transmitter surface mount in 1-gang U.S. wallboxes 3.5 in (89 mm) deep, mounted facedown from the ceiling. Indoor use only.
- The sensors must be mounted in a position where the partition separates the transmitter and receiver when the partition is closed.
- Transmitter and receiver may be located no more than 8 ft (2.43 m) apart.
- Adjustable mounting brackets allow easy alignment during installation.
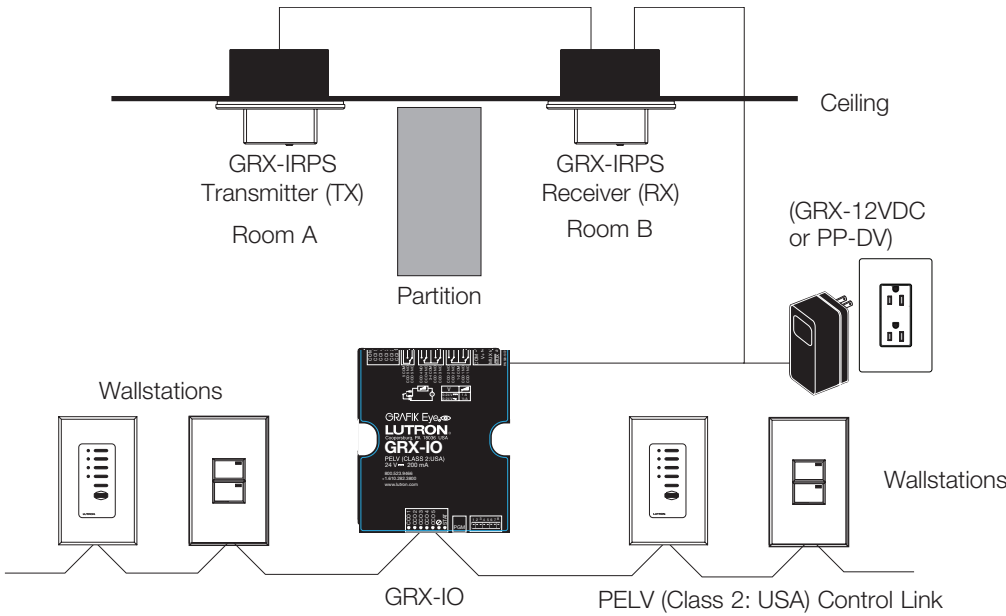- Wires feed through the back of the transmitter/receiver.

Side View

Standard single-gang U.S. wallbox mounted facedown and flush with ceiling surface (typical of two).

Ceiling

1.5 in (38 mm)

GRX-IRPS-WH Transmitter

GRX-IRPS-WH Receiver

Partition

8 ft (2.43 m) maximum

Top View

Single gang wallbox (typical of two)

Wallbox mounting line of center

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System Diagrams

GRAFIK Eye 3000 and 4000 Systems

Ceiling

GRX-IRPS
Transmitter (TX)

Room A

GRX-IRPS
Receiver (RX)

Room B

(GRX-12VDC
or PP-DV)

Partition

Wallstations

GRAFIK Eye QS
LUTRON
Coopersburg, PA 18036 USA
GRX-IO
PELV (CLASS 2:USA)
24 V⎓ 200 mA
800.523.9466
+1.610.282.3800
www.lutron.com

Wallstations

GRX-IO

PELV (Class 2: USA) Control Link

Athena, Quantum, Energi Savr Node, and GRAFIK Eye QS Systems

Ceiling

GRX-IRPS
Transmitter

Room A

GRX-IRPS
Receiver

Room B

To CCI1-5

Partition

(GRX-12VDC
or PP-DV)

QSE-IO

Energi Savr Node

Quantum hub or
Athena hub[2]

Wallstation

GRAFIK Eye QS[1]

LUTRON
Coopersburg, PA 18036 USA
QSE-IO-
PELV (CLASS 2:USA)
24 V⎓ 200 mA
800.523.9466
+1.610.282.3800
www.lutron.com/qs

Energi Savr Node
0-10 V / Softswitch
QSN-4T10-S
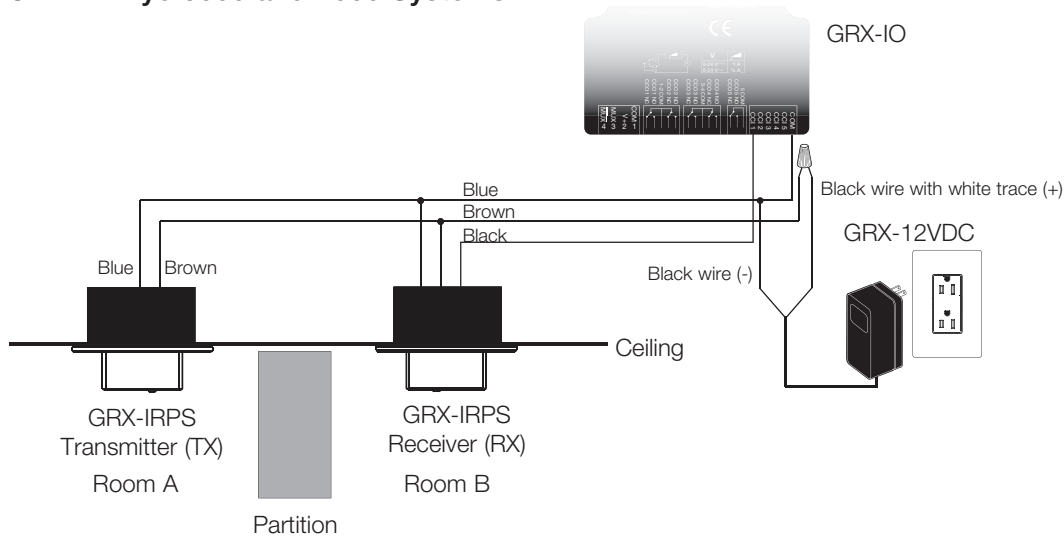saving energy since 1961

Wallstation

[1] Not compatible with Athena.
[2] Only required for Quantum or Athena systems. Not required for standalone Energi Savr Node or standalone GRAFIK Eye QS systems.

QS Link

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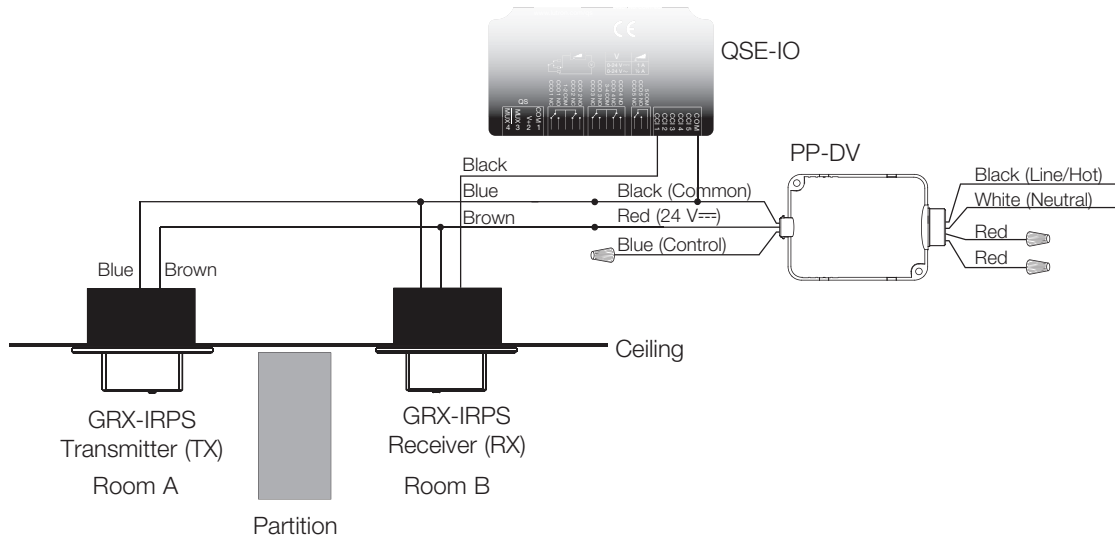| Job Name:	Model Numbers:
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Wiring Diagrams

GRAFIK Eye 3000 and 4000 Systems

Note: Diagram represents a single partition. A GRX-IO will accomodate up to five GRX-IRPS partition sensors (five partitions). A single GRX-12VDC will power up to eleven GRX-IRPS partition sensors.

Note: The GRX-IO is programmed for partition mode. Set input closures for maintained inputs (refer to the GRX-IO installation instructions).

Athena, Quantum, Energi Savr Node, and GRAFIK Eye QS Systems

Note: Diagram represents a single partition. A QSE-IO will accomodate up to five GRX-IRPS partition sensors (five partitions). A single PP-DV will power one GRX-IRPS partition sensor.

Note: The QSE-IO is programmed for partition mode. Set input closures for maintained inputs (refer to the QSE-IO installation instructions).

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