Project		Catalog #		Type	
Prepared by		Notes		Date	

Greengate

IRTR

Infrared Transmitter & Receiver

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing • Outdoor

Interactive Menu

- Order Information page 2
- Wiring Diagrams page 3
- Connected Systems page 3
- Product Warranty

Product Certification

c(UL)us
Energy
Management
Equipment
(UL916)

CE

Top Product Features

- Partitioning Tool
- Lighting functions can be programmed to change automatically
- LED indicator makes sensor alignment easier and provides status

additional
product diagrams

Order Information

Catalog Number

Catalog Number	Description
IRTR	Infrared Transmitter & Receiver

Optional Accessories
Accessories available for optional use with partitioning.

Catalog Number

Catalog Number	Description
UIG-2-NA	Universal Interface
EXPS-15V	External Power Supply, supports up to 4 IRTR sets
SP20-RD4	Power Supply, J-box compatible, supports up to 8 IRTR sets
SP20-MV	Power Supply, J-box compatible, supports up to 6 IRTR sets
RSP-V-SW	Power supply, J-box compatible, supports up to 6 IRTR sets

Product Specifications

General
Partitioning Tool
- Lighting functions can be programmed to change automatically to accommodate the smaller or larger space based on partitions being opened or closed
- LED indicator on the receiver makes sensor alignment easier and provides status

Mechanical
Environment:
- **Operating temperature:** 32°F to + 104°F (0°C to 40°C)
- **Humidity:** 0% - 90% non-condensing
- **Mounting:** Surface mount fae down in single gang U.S. wall boxes 3.5" (89 mm) deep
- For indoor use only

Electrical
Operating Voltage:
- Low voltage PELV (Class 2: USA)
- 12 - 24V from the EXPS-15V power supply
- 24 VDC, with the SP20-RD4
- 15 VDC, with the SP20-MV
- Up to 4 pairs of IRTR transmitters and receivers can be used with a single UIG-2-NA and EXPS-15V power supply
- Maximum wiring distance should not exceed 32 feet (10m) between the IRTR and UIG-2-NA

Standards/Ratings
- cULus Listed - Energy Management Equipment (UL916)
- CE

Warranty
Five year warranty standard

Overview
The Infrared Transmitter and Receiver is a universal system accessory to the WaveLinx, Greengate, iLumin/iLight Control Systems and others.
It is used to sense the presence or absence of partitions such that lighting functions change to accommodate the appropriate size space.
Depending on the control system, requires a connection to either a PRO/CAT CCI module, WSP-CA-010, Room Controller or Wired UIG-2-NA and power supply.
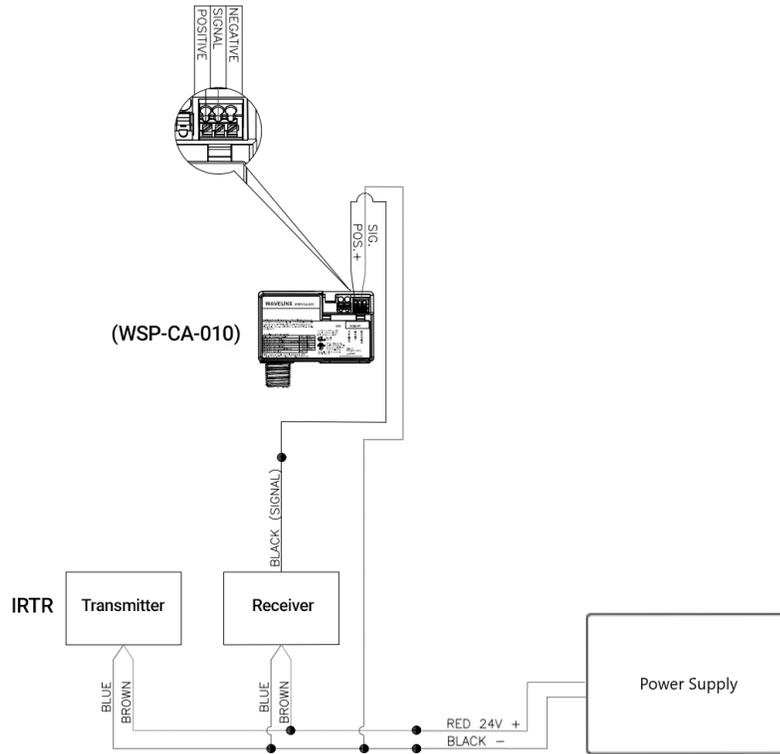
IRTR Dial Setting
For correct operation, the IRTR dial setting must be set to "D" mode for use with WaveLinx PRO WSP-CA-010, PRO/CAT CCI module, Room Controller, and Wired UIG
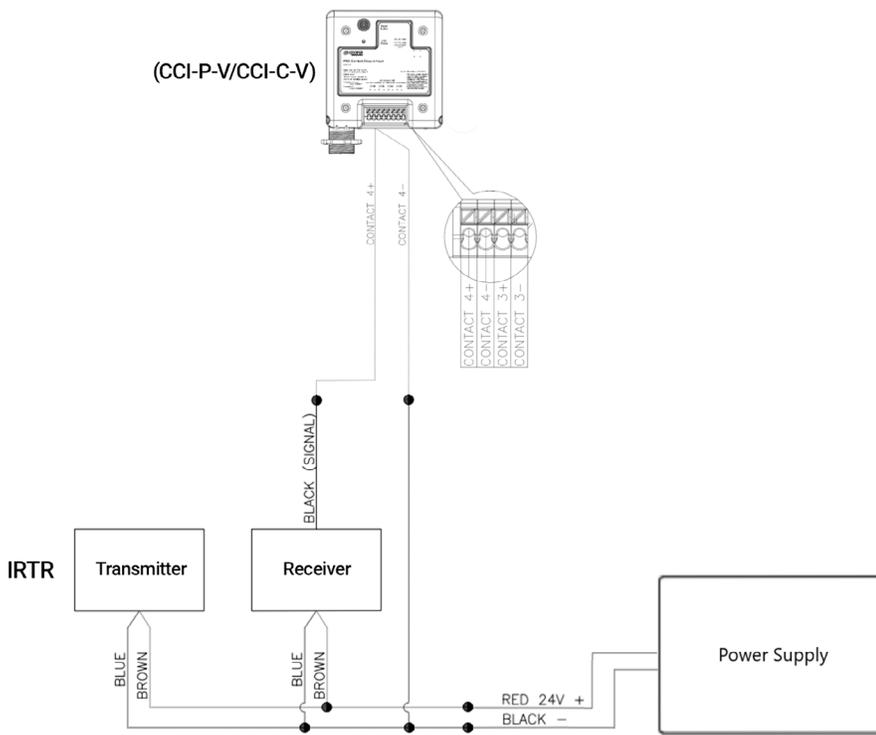

SA2E-TN3R-2M 523629

Wiring Diagrams

WaveLinx PRO WSP-CA-010 / PRO/CAT CCI Module / Room Controller / Wired UIG

IRTR used with PRO WSP-CA-010

(WSP-CA-010)

IRTR | Transmitter | Receiver

Power Supply

See Optional Accessories table for available power supplies.

IRTR used with PRO/CAT CCI-P-V / CCI-C-V Module

(CCI-P-V/CCI-C-V)

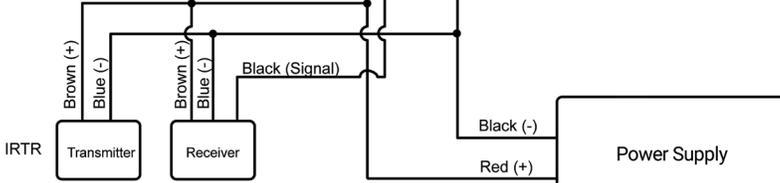IRTR | Transmitter | Receiver

Power Supply

See Optional Accessories table for available power supplies.

IRTR used with Wired UIG

UIG-2-NA (ordered separately)
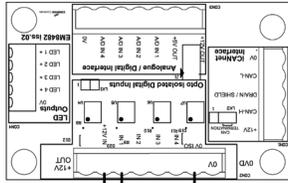
Up to 4 sets of IRTR devices (4 partitions) may be wired in parallel across power (+) and ground (-) connections. Signal Wires must be run individually for proper control.

Brown (+) Blue (-) Brown (+) Blue (-)
Black (Signal)

Black (-)
Red (+)

Power Supply

See Optional Accessories table for available power supplies

IRTR — Transmitter — Receiver

Additional receivers signal wires will wire to input numbers 1 through 4. The transmitter violet wire is not used.

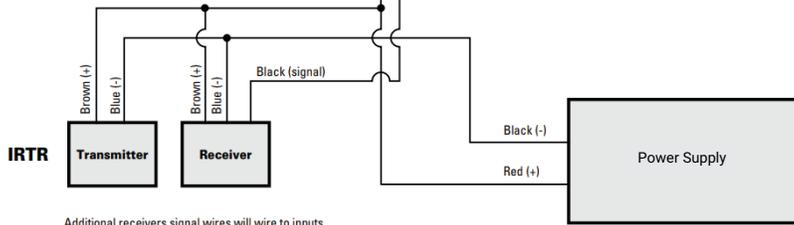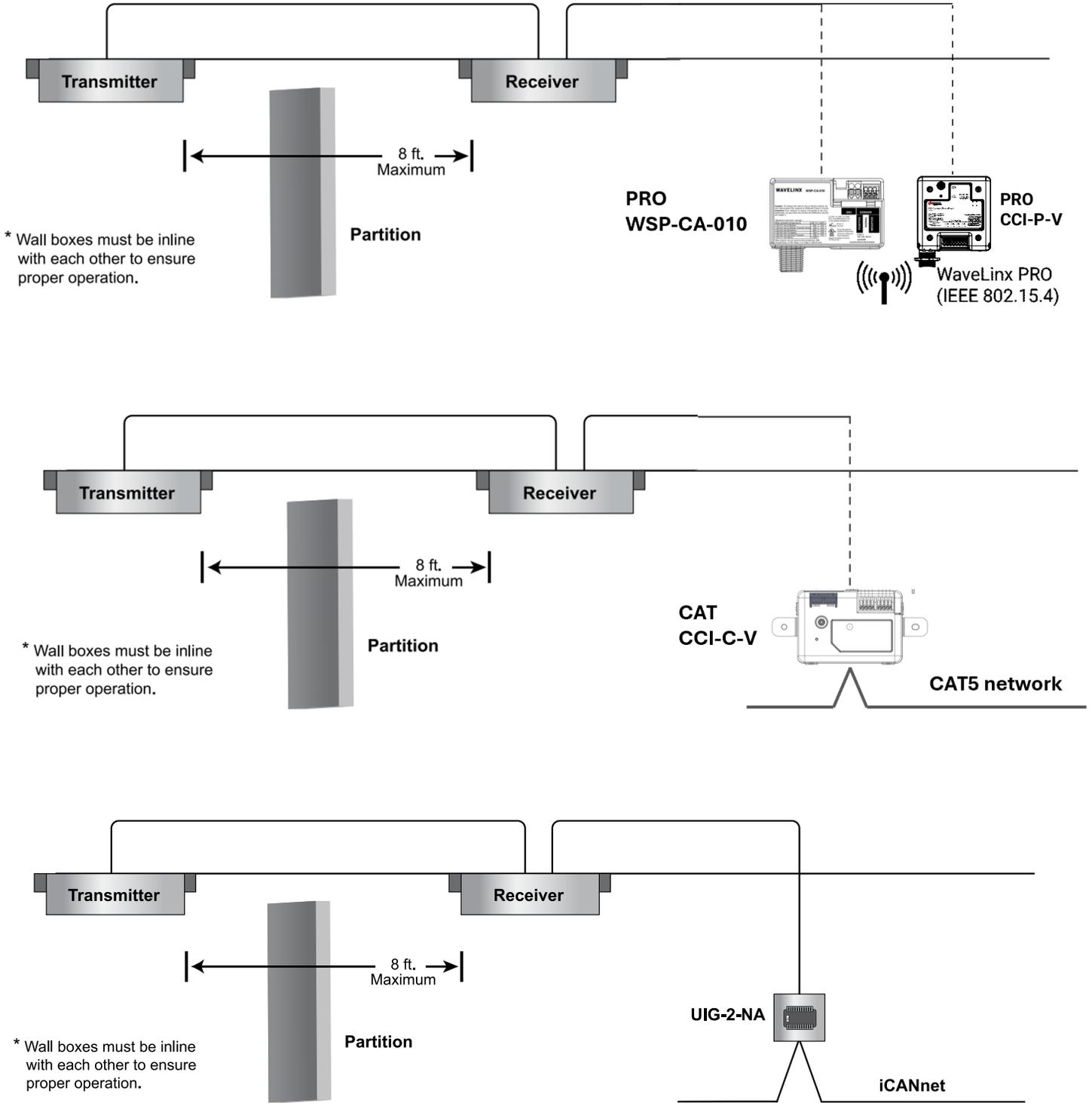**IRTR used with Room Controller Partition Control (RCPC)**

Typical J1 - J4

Up to 4 sets of IRTR devices (4 partitions) may be wired in parallel across power (+) and ground (-) connections.

Signal wires must be run individually for proper control.

+12V IN / Signal IN

Brown (+) Blue (-) Brown (+) Blue (-)
Black (signal)

Black (-)
Red (+)

Power Supply

See Optional Accessories table for available power supplies

IRTR — Transmitter — Receiver

Additional receivers signal wires will wire to inputs. The transmitter violet wire is not used.

Sample System Topology

Transmitter — Receiver

8 ft. Maximum

Partition

* Wall boxes must be inline with each other to ensure proper operation.

PRO WSP-CA-010

PRO CCI-P-V

WaveLinx PRO (IEEE 802.15.4)

Transmitter — Receiver

8 ft. Maximum

Partition

* Wall boxes must be inline with each other to ensure proper operation.

CAT CCI-C-V

CAT5 network

Transmitter — Receiver

8 ft. Maximum

Partition

* Wall boxes must be inline with each other to ensure proper operation.

UIG-2-NA

iCANnet

Control Systems
- Greengate