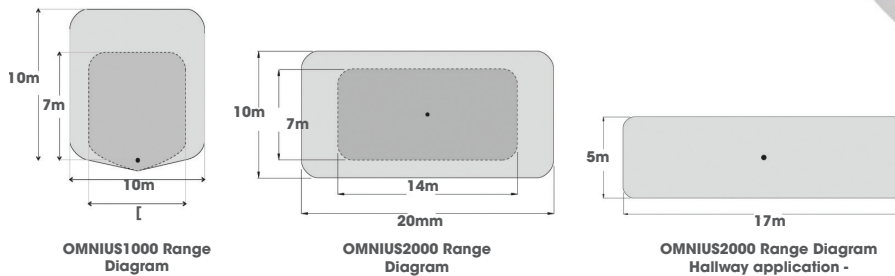HUBBELL

OMNIUS | OMNIUSRP

OMNI™ ULTRASONIC CEILING SENSOR
FEATURING IntelliDAPT®

Key features

- IntelliDAPT self-adaptive technology – no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 92 – 185 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
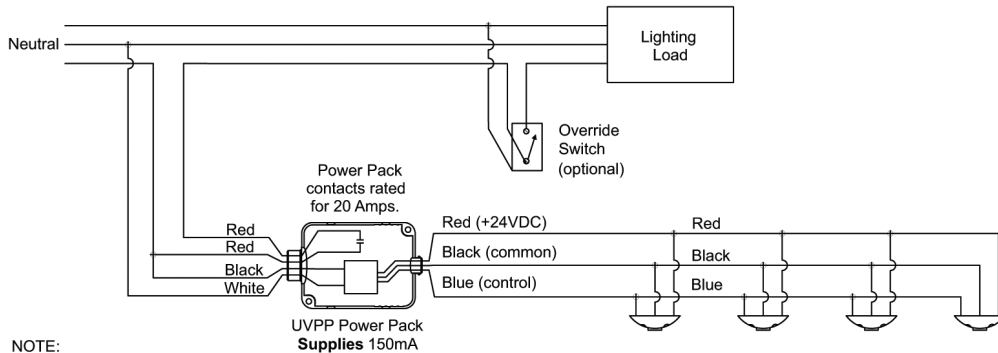- Uses UVPP Power Pack - not included

Range Diagram

10m
7m
10m
OMNIUS1000 Range Diagram

10m
7m
14m
20mm
OMNIUS2000 Range Diagram

5m
17m
OMNIUS2000 Range Diagram Hallway application -

Specifications	
IntelliDAPT technology	Auto reset from test setting Self-adjusting timer Self-adjusting ultrasonic and passive infrared thresholds Automatic false-on/false-off corrections
Timer timeout	Automatic mode: 8–30 minutes. (self-adjusts based on occupancy) Test mode: 8 seconds (for an easy check at installation)
Ultrasonic (US) output	OMNIUS1000 and OMNIUS2000: 32kHz output
RP option	Relay and photocell included Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay Photocell: adjustable natural-light override ranges from 0–1,000 lux
Coverage	92 – 185m² (depending on model)
Power requirements	24 VDC, 33mA (uses UVPP Power Pack – not included)
Output	24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP option)
Operating environment	Indoor use only Operating temperature: 0° – 40°C 0% to 95% relative humidity, non-condensing
Construction	Casing – rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors Colour-coded leads are 152.4mm long
Size and weight	**Size:** 114mm diameter, 38mm height **Weight:** 142g
Colour	Off - white
Mounting	Mounting base provided Recommended maximum mounting height: 3.65m
Warranty	5 years

OMNIUS | OMNIUSRP

Wiring Diagram

Neutral

Lighting Load

Override Switch (optional)

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)
Black (common)
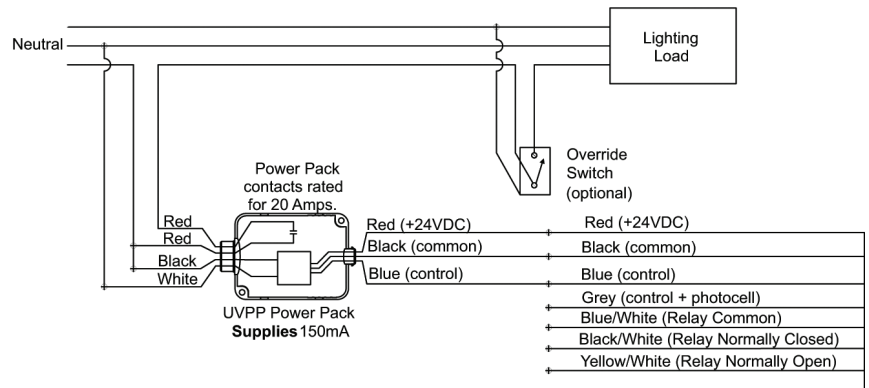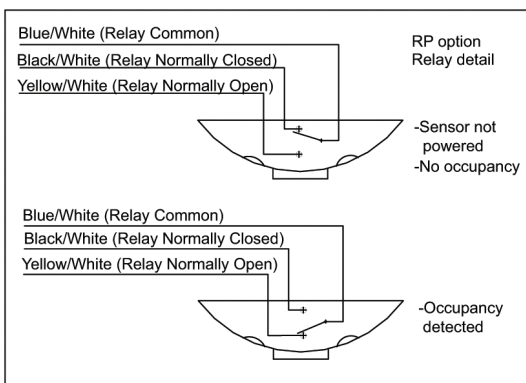Blue (control)

Red
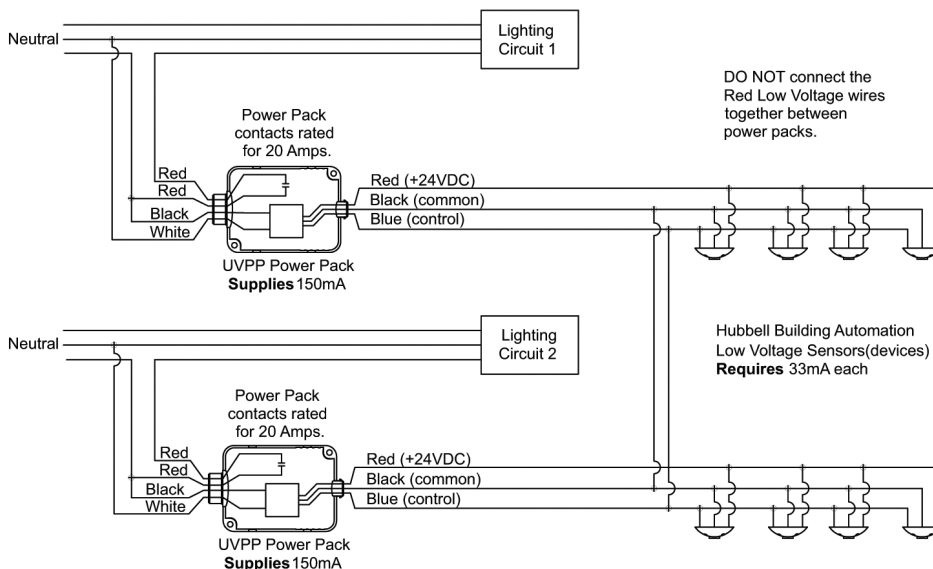Black
Blue

UVPP Power Pack
Supplies 150mA

NOTE:

1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

Hubbell Building Automation Low Voltage Sensors (devices) **Requires** 33mA each

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Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

RP option Relay detail

-Sensor not powered
-No occupancy

Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

-Occupancy detected

Neutral

Lighting Load

Override Switch (optional)

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)
Black (common)
Blue (control)

Red (+24VDC)
Black (common)
Blue (control)
Grey (control + photocell)
Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

UVPP Power Pack
Supplies 150mA

Hubbell Building Automation Omni or LightOWL sensors with -RP option

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Neutral

Lighting Circuit 1

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)
Black (common)
Blue (control)

UVPP Power Pack
Supplies 150mA

DO NOT connect the Red Low Voltage wires together between power packs.

Neutral

Lighting Circuit 2

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)
Black (common)
Blue (control)

UVPP Power Pack
Supplies 150mA

Hubbell Building Automation Low Voltage Sensors(devices) **Requires** 33mA each

NOTES:

1. Lighting load turns on when at least one sensor detects motion.

2. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

3. No more than 4 power packs should be connected in this way.