ETC

Unison Paradigm Occupancy/Vacancy Sensor

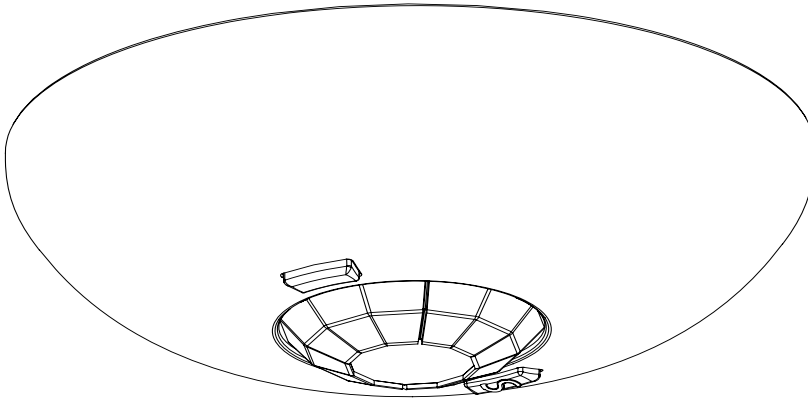## Paradigm Responsive Control Series

Type(s)

Project

Date

Notes

GENERAL INFORMATION

No more wasting resources lighting an empty room. Buildings can waste electricity as a result of lights being left on in an unoccupied room. ETC's Unison Paradigm Occupancy/Vacancy Sensors are a convenient and easy solution for your facility to eliminate that wasted energy, by automatically turning off lighting loads when a room is empty. The low-profile, sleek sensors can be installed anywhere in your facility to provide uninterrupted, 24/7/365 operation, without affecting the look and beauty of their surroundings.

APPLICATIONS
- Classrooms
- Conference rooms
- Museums
- Office spaces
- Low-use spaces

FEATURES
- Supports Occupancy or Vacancy detection
- Passive infrared (PIR) sensing technology
- Three versions available:
  - Large room
  - Small room
  - High ceiling
- Walk-thru mode for coverage verification
- Field-installed coverage masks
- Supports manual-on/auto-off (default) and auto-on/off modes
- Software configurable to activate or deactivate any Paradigm system function
- LinkConnect: two-wire, topology-free bus for power and communication
- Each sensor counts as one station
- Available in white and black

GENERAL
- UL and cUL Listed
- CE compliant

ORDERING INFORMATION

Ceiling-Mount Occupancy/Vacancy Sensors

MODEL	DESCRIPTION
P-OCC	Paradigm Occupancy/Vacancy Sensor with 2000 sq.ft. coverage*
P-OCC-SR	Paradigm Occupancy/Vacancy Sensor with 500 sq.ft. coverage*
P-OCC-HCM	Paradigm Occupancy/Vacancy Sensor for high ceilings

*Measurements based off 3 m (9 ft) ceiling height. For specific coverage patterns, see page 3.

Note: Sensors come standard in pure white (RAL 9010). Add -4 to the end of any model number for black (RAL 9004)

Compatible Control Systems

MODEL	DESCRIPTION
P-ACP	Paradigm Architectural Control Processor

Note: Paradigm station power is required for operation.

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Paradigm Responsive Control Series

SPECIFICATIONS

FUNCTIONAL
- Supports software-configured Auto-On/Auto-Off functionality (occupancy sensing) or Manual-On/Auto-Off (vacancy sensing) functions
- 360˚ coverage pattern
  - Includes customizable coverage masks
- No additional power pack required
- Supports Walk-Thru mode for verifying coverage area
  - Sensor lens illuminates for walk-thru and test mode operation
- Three coverage options available

Model	Coverage m²	Coverage ft²
Small Room Sensor	41.8 m² at 2.4 m	450 ft² at 8 ft
	74.3 m² at 6.7 m	800 ft² at 12 ft
Large Room Sensor	167 m² at 2.4 m	1800 ft² at 8 ft
	279 m² at 6.7 m	3000 ft² at 12 ft
High Ceiling Sensor	28 m² at 2.4 m	300 ft² at 10 ft
	650 m² at 12.2 m	7000 ft² at 40 ft

- Sensor coverage tested to NEMA WD 7-2000

MECHANICAL
- Constructed of injection-molded, ABS plastic in Pure White (RAL 9010) or Black (RAL 9004)
- Electronics assembly and mounting plate included
- Two cantilevered configuration buttons
- No visible means of attachment
- Surface- or backbox-mountable using included mounting plate
  - Supports drywall, plaster, wood and concrete
  - Mounts to any standard electrical box (supplied by other manufacturers)
  - Mounts to compressed-fiber ceilings with included wire form
- Field-installed lens mask allow customized occupancy detection fields

ELECTRICAL
- Connect via LinkConnect two-wire control network utilizing low-voltage Class 2 wiring
  - Topology-free and polarity-independent wiring over Belden 8471 or equivalent and one 2.5 mm² (14 AWG) ESD drain wire
  - Wiring may be bus, loop, homerun or any combination of these

ENVIRONMENTAL
- Ambient room temperature: 0–40° C (32–104° F)
- Ambient humidity: Maximum 90% (non-condensing)

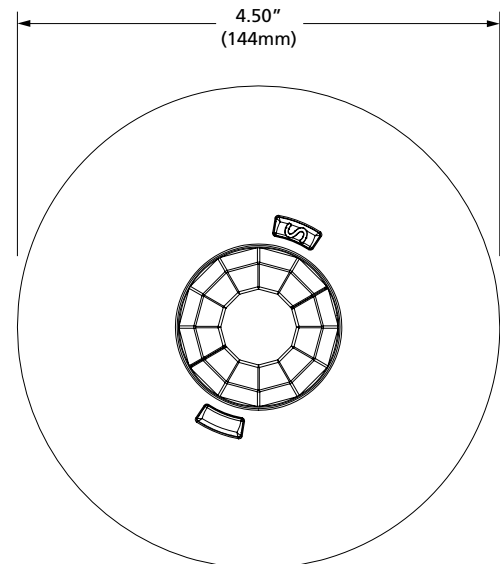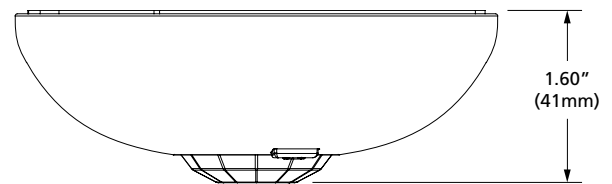## PHYSICAL

Unison Paradigm Occupancy Sensor Dimensions*

MODEL	DIAMETER		DEPTH	
	in	mm	in	mm
P-OCC	4.50	114	1.60	41

Unison Paradigm Occupancy Sensor Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	oz	g	oz	g
P-OCC	4	111	8	224

*Weights and dimensions typical

1.60" (41mm)

4.50" (144mm)

COVERAGE PATTERNS

Small Room side view

0	
2.4m (8ft)	
3.0m (10ft)	
3.7m (12ft)	

6.1m (20ft)	4.6m (15ft)	3.0m (10ft)	1.5m (5ft)	0	**1.5m (5ft)**	3.0m (10ft)	4.6m (15ft)	6.1m (20ft)

Large Room side view

0	
2.4m (8ft)	
3.0m (10ft)	
3.7m (12ft)	

12.2m (40ft)	9.1m (30ft)	6.1m (20ft)	3.0m (10ft)	0	3.0m (10ft)	6.1m (20ft)	9.1m (30ft)	12.2m (40ft)

High Ceiling side view

0	
6.1m (20ft)	
9.1m (30ft)	
12.2m (40ft)	

12.2m (40ft)	9.1m (30ft)	6.1m (20ft)	3.0m (10ft)	0	3.0m (10ft)	6.1m (20ft)	9.1m (30ft)	12.2m (40ft)
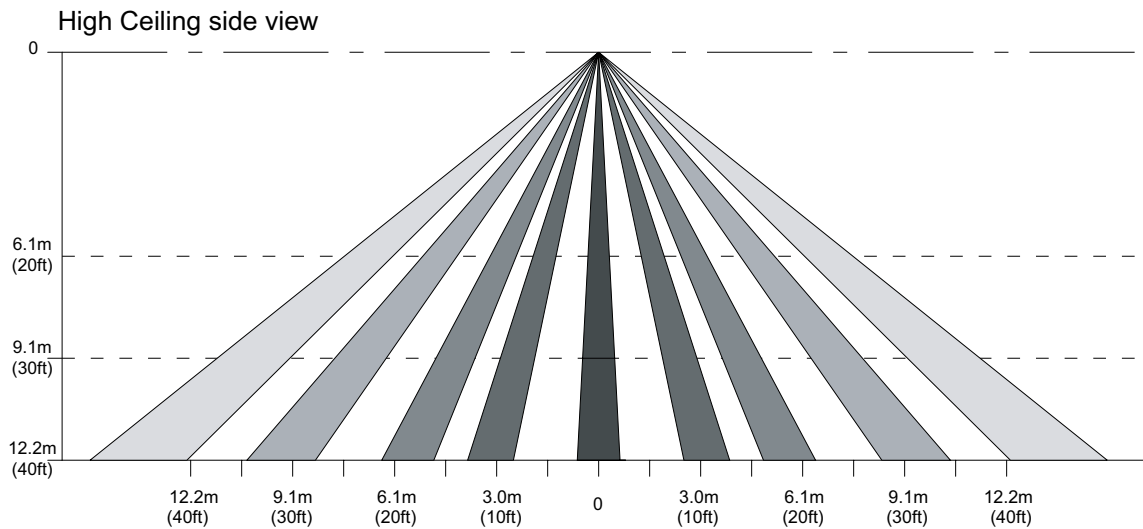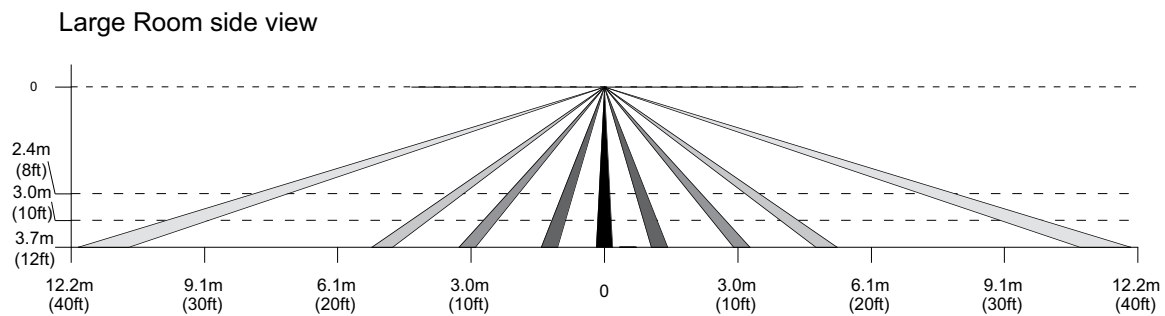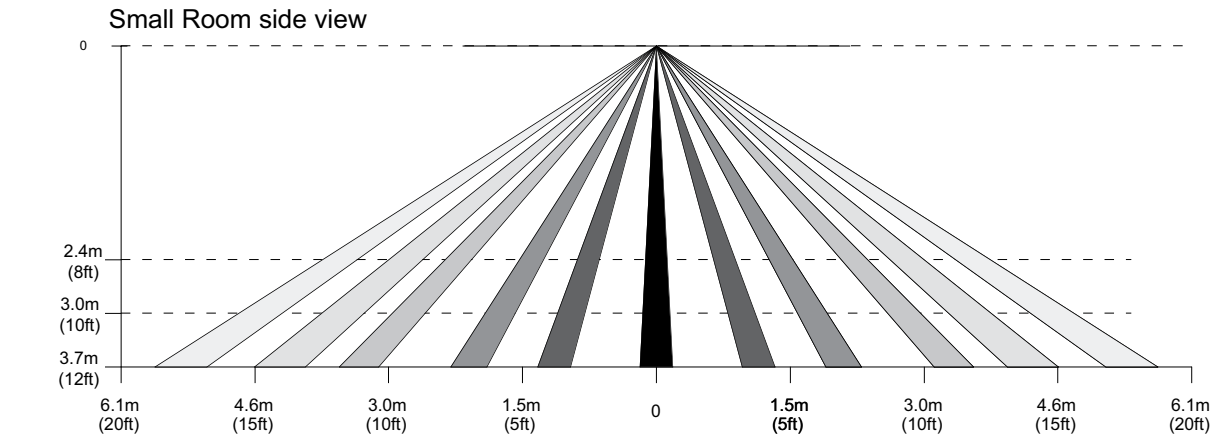
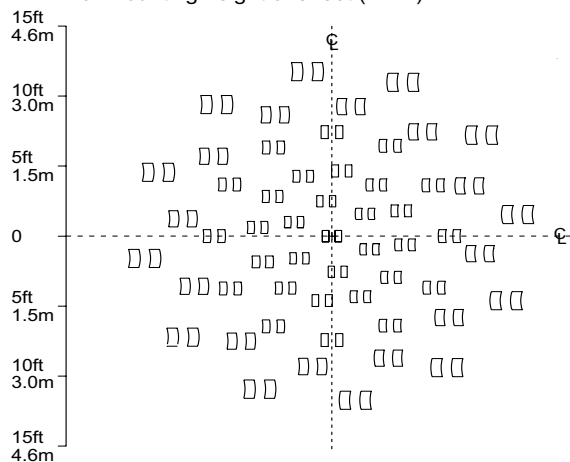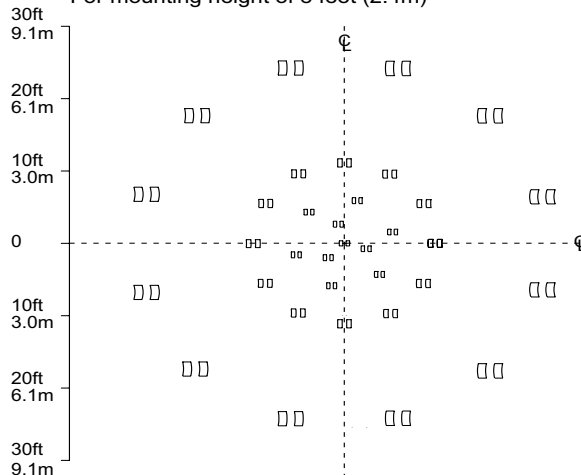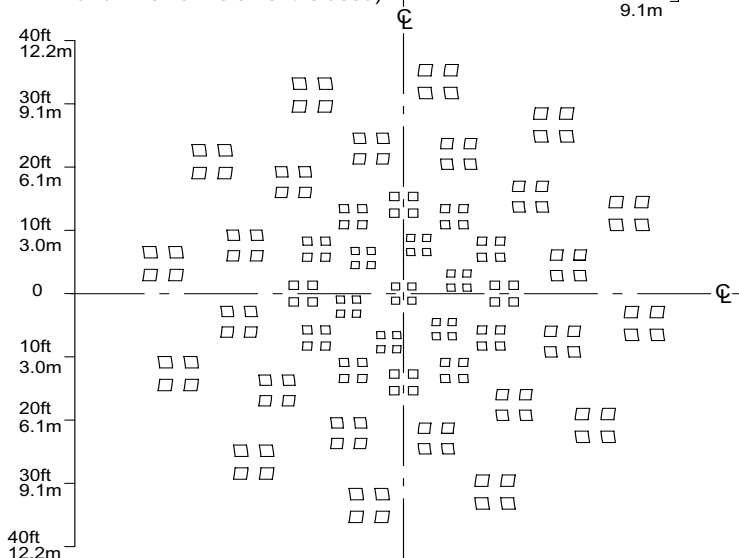## COVERAGE PATTERNS

Floor Coverage
For mounting height of 8 feet (2.4m)

Floor Coverage
For mounting height of 8 feet (2.4m)

Floor Coverage
For mounting height of 30 feet (12.2m) and when a 4 element is used)

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