US Oneway COM1-24

Occupancy Sensor

steinel

Project Name:
Location:

64600	65300	65320	65330

US Oneway COM1-24 Specifications

Item No.	64600 US Oneway COM1-24
Accessories	65300 RC 3 service remote 65320 RC 4 user remote 65330 WGC wire guard cage
Voltage	18 - 24 VDC/VAC (30 mA) 50/60 Hz
Load Rating	control output - 1 A @ 30 VAC/VDC
Sensing Technology	ultrasonic (40 kHz)
Time Delay Setting	control output 30 sec. - 30 min. pulse mode (approx. 2 sec. 'ON' 8 sec. 'OFF') IQ mode (automatic adjustment to the usage profile)
Light Level Setting	10 - 1000 lux / 1 - 100 fc
Environment	IP20 rated, 0°C to +40°C, 32°F to +104°F
Ultrasonic Detection Zones: (Coverage at 2.5 m / 9 ft)	max. 2 x 10 m (20 sq.m.) max. 6.5 x 33 ft (214.5 sq.ft.) min. 2 x 2.5 m (5 sq.m.) min. 6.5 x 10 ft (65 sq.ft.)
Dimensions	4.72 x 4.72 x 2.87 in, 120 x 120 x 73 mm (LxWxD)
Warranty	5 years
Certifications	C-UL-US Listed, RoHS compliant, UL 2043 Plenum Rated, CA Energy Code compliant

The US Oneway COM1-24 is a low voltage Ultrasonic Technology Occupancy Sensor (40 kHz) that utilizes STEINEL's state of the art ultrasonic signal processing to providing superior stable volumetric unidirectional detection. The unique linear unidirectional coverage pattern is engineered specifically for hallways and applications requiring a true volumetric linear pattern of detection. This is an ideal hallway sensor for design and retrofit applications where coverage is desired only in a single direction or small space applications where the sensor will not have a complete line of sight view of the occupied space. Operational choices of manual on or auto on with either momentary or maintained switch options. Included force off light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings. The convenient "COM-Link" feature enables multiple sensors to link together via the communication link for peer to peer grouping achieving expanded detection zones with convenient control set up functions set at only one primary sensor for the entire group. Mounting options provide for 4" Square box, 4" Octagon box, Round 3.0 Mud-Ring or directly to the ceiling with quick mount spring tabs. The available service and user wireless remotes provide simplified commissioning and occupant convenience.

The Control PRO group of sensors are available in multiple technologies for the control of heating, ventilation and air conditioning as well as lighting (as in the COM2-24 versions) and optional 1-10 volt dimming and daylighting options (in the DIM-24 versions).

Applications

The typical best practice applications for the US Oneway sensors are: Hallways, underground walkways, sky walks, small offices and single stall bathrooms, small conference rooms, small kitchen or common areas, etc.

Key Features:

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Unidirectional ultrasonic (40 kHz) occupancy sensor
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option
- 'ON' only / 'ON' & 'OFF' manual switching
- Light level feature turns lights off when sufficient daylight is present
- Mounts to a 4" square box, 4" octagon box, round 3.0 mud-ring or directly to the ceiling with quick mount spring tabs
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy
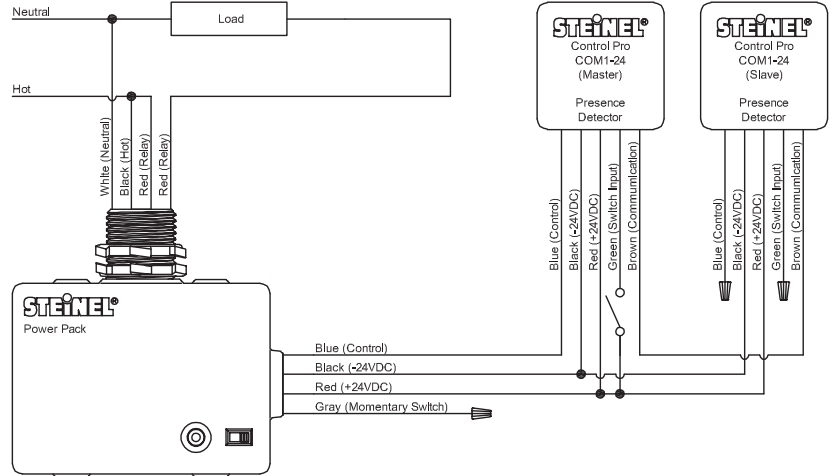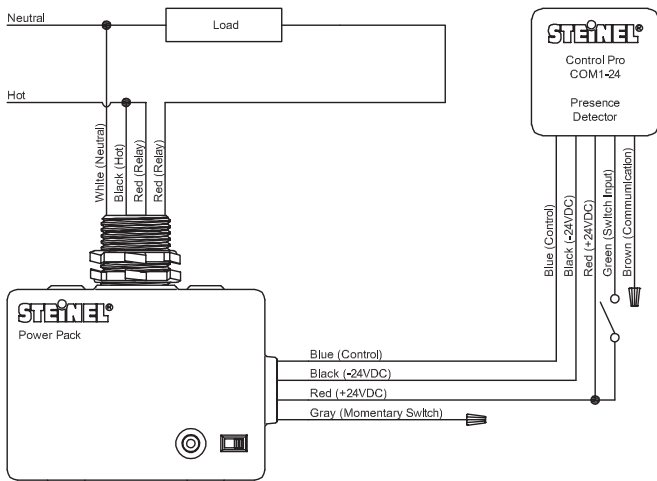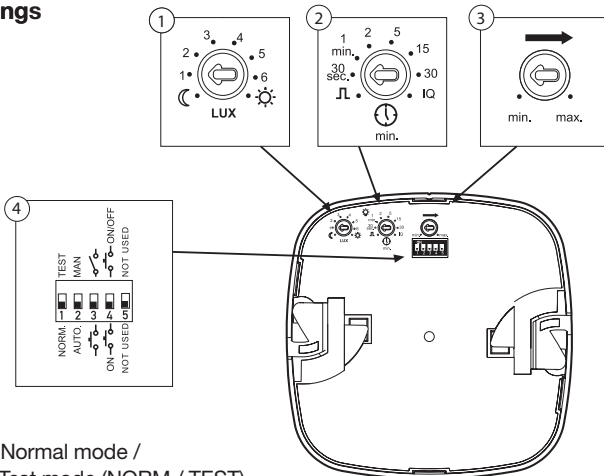
40 kHz			24 VDC	
Ultrasonic	6.5 x 33 Ft Max	1 - 100 fc	18-24 VDC/VAC	30 Sec - 30 Min

Wiring

Settings

1 - Light level setting
2 - Occupancy time delay setting
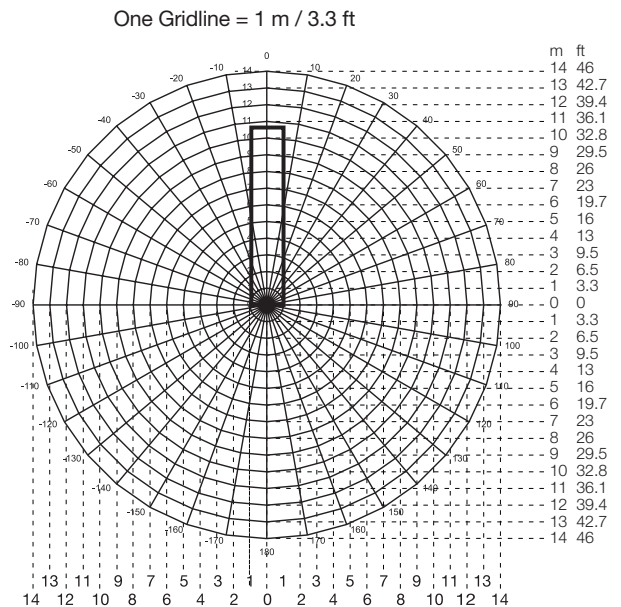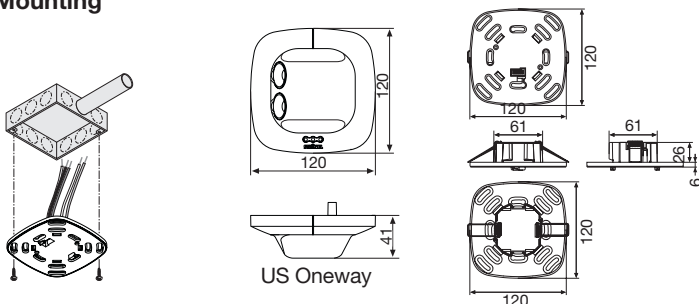3 - Reach setting
4 - Sensor DIP switch settings

DIP 1 - Normal mode /
         Test mode (NORM / TEST)
DIP 2 - Manual ON mode (MAN) /
         Automatic mode (AUTO)
DIP 3 - Momentary / Maintained switch option
DIP 4 - 'ON' only / 'ON' & 'OFF' manual switching
DIP 5 - Not used

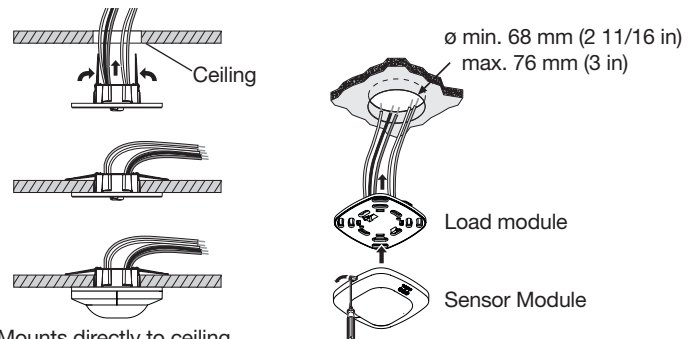## Coverage

Shown coverage diagram at 9 ft mounting height. Ultrasonic signal can be increased by hard surfaces and decreased by soft surfaces.

One Gridline = 1 m / 3.3 ft

m	ft
14	46
13	42.7
12	39.4
11	36.1
10	32.8
9	29.5
8	26
7	23
6	19.7
5	16
4	13
3	9.5
2	6.5
1	3.3
0	0
1	3.3
2	6.5
3	9.5
4	13
5	16
6	19.7
7	23
8	26
9	29.5
10	32.8
11	36.1
12	39.4
13	42.7
14	46

Mounting

US Oneway

Mounts to a 4" Square box, 4" Octagon box or Round 3.0 Mud-Ring

Ceiling

Mounts directly to ceiling with quick mount spring tabs

ø min. 68 mm (2 11/16 in)
max. 76 mm (3 in)

Load module

Sensor Module