GLA-US-QUATTRO-COM2-24
by Steinel
Presence Detector

CRESTRON

The US Quattro COM2-24 is a low voltage Ultrasonic Technology Presence Detector (40 kHz) that utilizes STEINEL's state of the art ultrasonic signal processing to provide superior stable volumetric omnidirectional detection for independent control of both lighting and HVAC. Lighting is controlled in relation to both the presence of motion and ambient light levels. The HVAC output (isolated normally open and normally closed dry contacts) are signaled in relation to only the presence of motion. The omnidirectional coverage pattern is ideal for those design and retrofit applications where the sensor will not have complete line of sight view of the occupant and space. Operational choices of manual on or auto on with either momentary or maintained switch options. The 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 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 presence detectors are available in multiple presence detection 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 US Quattro COM2-24 is designed to be utilized in a multitude of applications and configurations: Large open areas where work stations or cubical furniture is used, bathrooms with stalls, storage areas with racking or any applications requiring a true omnidirectional volumetric pattern of detection and separate HVAC control output.

Item No.	US Quattro COM2-24
Accessories	RC 3 service remote RC 4 user remote wire guard cage
Voltage	18-24 VDC/VAC (34 mA) 50/60 Hz
Load Rating	control output - 1 A @ 30 VAC/VDC HVAC dry contacts - 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) HVAC dry contacts: 0 sec. - 10 min. switch 'ON' delay 1 min. - 2 hrs. stay 'ON' time auto-HVAC mode
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)	presence: max. 6 x 6 m (36 sq.m.) max. 20 x 20 ft (400 sq.ft.) min. 2 x 2 (4 sq.m.) min. 6.5 x 6.5 ft (42.25 sq.ft.) radial / tangential: max. of up to 10 x 10 m (100 sq.m.) radial / tangential: max. of up to 32 x 32 ft (1000 sq.ft.)
Dimensions	4.72 x 4.72 x 2.68 in, 120 x 120 x 68 mm (LxWxD)
Warranty	5 years
Certifications	C-UL-US Listed, RoHS compliant UL 2043 Plenum Rated, CA Energy Code compliant

Key Features:

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Independent ON and OFF time settings for the HVAC (NO/NC)
- Omnidirectional ultrasonic (40 kHz) presence detection
- 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 with sufficient daylight
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy
- Auto-HVAC mode reduces presence detection sensitivity and requires additional detection verification before signaling the HVAC output.

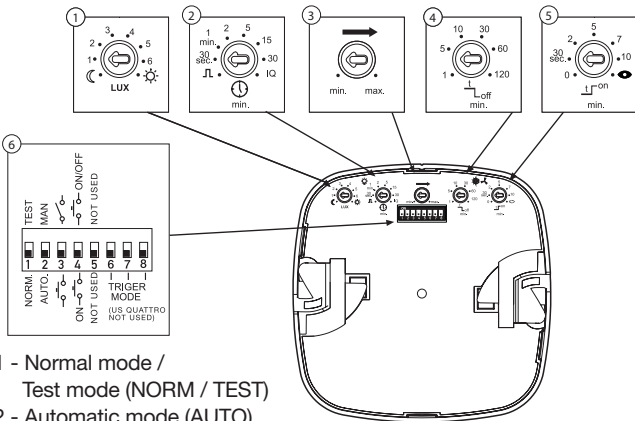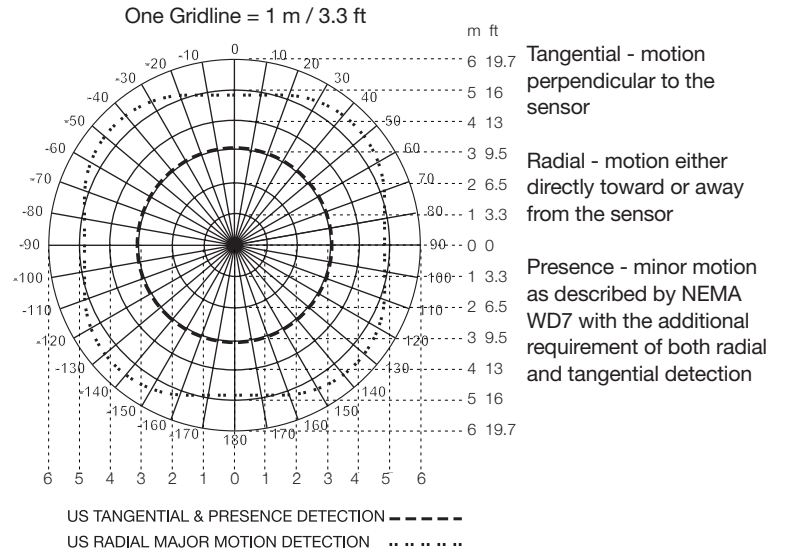| 40 kHz	20 x 20 Ft Presence	1 - 100 fc	24 VDC	30 Sec - 30 Min
Ultrasonic	32 x 32 Ft Max		18 - 24 VDC/VAC & HVAC	

Wiring
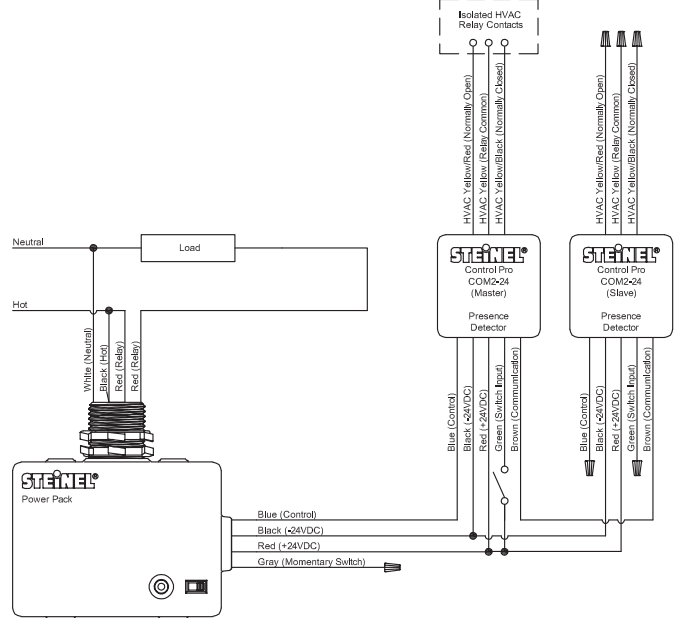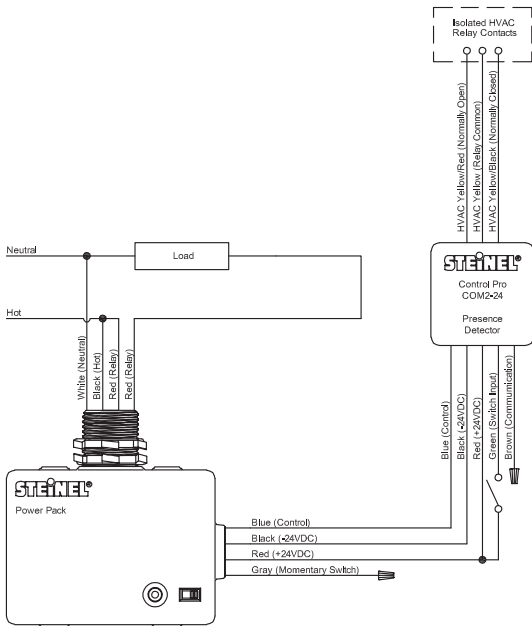
Settings

DIP 1 - Normal mode /
Test mode (NORM / TEST)
DIP 2 - Automatic mode (AUTO)
Manual ON mode (MAN) /
DIP 3 - Momentary /
Maintained switch option
DIP 4 - 'ON' only / 'ON' & 'OFF'
manual switching
DIP 5 / 6 / 7 / 8 - Not used

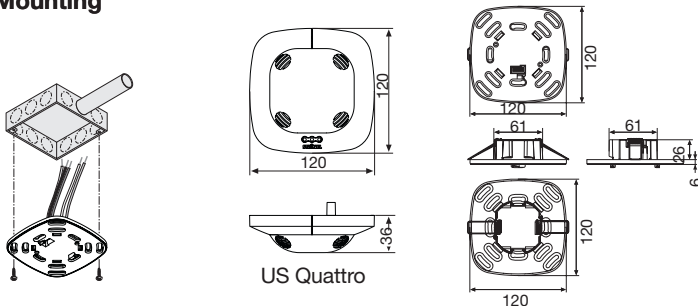1 - Light level setting
2 - Occupancy time delay setting
3 - Reach setting
4 - HVAC stay-'ON' time
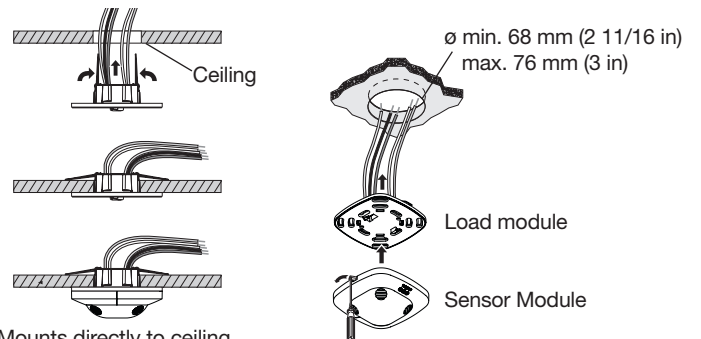5 - HVAC switch-'ON' delay
6 - Sensor DIP switch settings

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

Tangential - motion perpendicular to the sensor

Radial - motion either directly toward or away from the sensor

Presence - minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection

US TANGENTIAL & PRESENCE DETECTION – – – – –
US RADIAL MAJOR MOTION DETECTION .. ..

Mounting

US Quattro

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