DT Quattro COM1-24

Presence Detectors





The DT Quattro COM1-24 Dual Technology Presence Detector utilizes PIR and ultrasonic technologies to detect the presence or signature of a person in a space. The logic options for initial "ON" and "Maintained" state of occupancy gives design engineers and installation contractors the choice for proper control of lighting and building automation in difficult applications where detection options are needed in a single device. Lighting loads are controlled in relation to both presence detection and selectable ambient light levels with the integrated force off photocell to maximize energy savings. STEINEL's world class PIR optics and ultrasonic signal processing provides unparalleled line of sight and volumetric presence detection. Operational choices of auto on or manual on with a momentary or maintained switch input. The convenient "COM-Link" feature enables multiple sensors to link together via the communication link for pier to pier grouping achieving expanded detection zones with convenient control set up functions set at only one primary sensor for the entire group. 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 (HVAC) and lighting loads (as in the COM2-24 versions) and optional 1-10 volt dimming and daylighting options (in the DIM-24 versions).

Applications

The typical application is for classrooms, conference rooms, computer rooms, storage rooms, workspaces, open office space with cubicles, general open areas, restrooms, stairwells, storage rooms, executive offices and private offices.











DT Quattro COM1-24 Specifications

Item No.	64700 DT Quattro 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 Technologies	passive infrared (PIR), single pyro, 11 detection levels, 520 switching zones, 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)	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.)				
PIR Detection Zones:	presence: max. 3 x 3 m (9 sq.m.) max. 10 x 10 ft (100 sq.ft.) radially: max. 4 x 4 m (13 x 13 ft) tangentially: max. 8 x 8 m (26 x 26 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
- PIR & 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 when sufficient daylight is present
- Mounts to a 4" square box, 4" octagon box, round 3.0 mudring or directly to the ceiling with quick mount spring tabs
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy











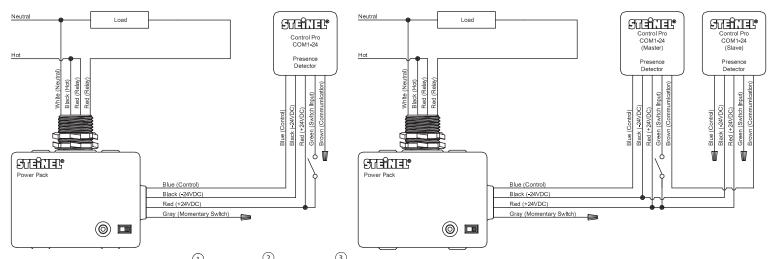


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Wiring



Settings

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

DIP 1 - No Tes

DIP 2 - Ma Au

DIP 3 - Mo

DIP 4 - 'O

DIP 5 - No

DIP 6/7/8

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			. 5.5	5.5	

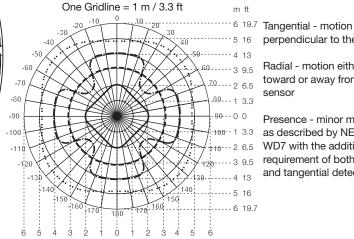
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(5)					
Trigger Mode Options	Initial	Maintain	DIP	DIP	DIP
	Occupancy	Occupancy	6	7	8
Option 1	Both	Either	↓ OFF	↓ OFF	↓ OFF
Option 2	Both	Both	↓ OFF	↓ OFF	↑ ON
Option 3	PIR	Either	↓ OFF	↑ ON	↓ OFF
Option 4	US	Either	↓ OFF	↑ ON	↑ ON
Option 5 Factory Setting	Either	Either	↑ ON	↓ OFF	↓ OFF
Option 6	US	US	↑ ON	↓ OFF	↑ ON
Option 7	PIR	PIR	↑ ON	↑ ON	↓ OFF
Option 8	Either	Both	↑ ON	↑ ON	↑ ON

The trigger mode enables the user to choose which sensing technologies should be used to initially turn the load on and which technologies are required to keep it on.

Coverage

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



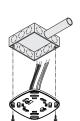
perpendicular to the sensor

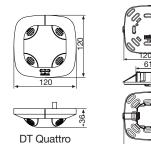
Radial - motion either directly toward or away from the sensor

Presence - minor motion 188-183 as described by NEMA WD7 with the additional requirement of both radial and tangential detection

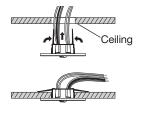
PIR RADIAL & PRESENCE DETECTION - US TANGENTIAL & PRESENCE DETECTION — — — — PIR TANGENTIAL DETECTION ----- US RADIAL MAJOR MOTION DETECTION

Mounting





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





Mounts directly to ceiling with quick mount spring tabs

