GLA-DT-CM-COM2-24 by Steinel

Presence Detector

CRESTRON

The DT CM COM2-24 Dual Technology Presence Detector utilizes passive infrared 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 HVAC 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. The separate HVAC dry contact output is signaled only by presence detection and has a separate "ON/OFF" delay time feature set. 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 peer to peer grouping achieving expanded detection zones with 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.

Applications

Typical applications for lighting and HVAC include 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.

Item No.	DT CM COM2-24
Accessories	Smart remote RC 8 programming remote RC 4 user remote
Voltage	18 - 24 VDC/VAC (40 mA) 50/60 Hz
Load Rating	control output (blue) 1 A @ 24 VAC/VDC HVAC dry contacts: common (yellow) Normally open (yellow/red) 1 A @ 24 VDC/VAC 50/60 Hz Normally closed (yellow/black) 1 A @ 24VDC/VAC 50/60 Hz
Sensing Technology	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) HVAC dry contacts: 0 sec. - 10 min. switch 'ON' delay 1 min. - 30 min. stay 'ON' time Auto-HVAC mode
Light Level Setting	10 – 1000 lux / 1 – 100 fc
Environment	IP20 rated, 0°C to +55°C, 32°F to +131°F
Ultrasonic Detection Zones: (Coverage at 2.5 m / 9 ft)	presence: max. 7 m (130 sq.m.) / min. 20% max. 22 ft (426 sq.ft.) / min. 20% radial: max. 11.5 m (376 sq.m.) / 38 ft (1236 sq.ft.) tangential: max. 8 m (218 sq.m.) / 26 ft (718 sq.ft.)
PIR Detection Zones: (Coverage at 2.5 m / 9 ft)	presence: max. 7 m (134 sq.m.) max. 22 ft (440 sq.ft.) radial: max. 8 m (200 sq.m.) / 26 ft (655 sq.ft.) tangential: max. 25 m (1612 sq.m.) / 82 ft (5290 sq.ft.)
Dimensions	4.72 x 2.76 x 4.21 in, 120 x 70.2 x 107 mm (LxWxD)
Warranty	5 years
Certifications	C-UL-US Listed, RoHS compliant 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)
- 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 with sufficient daylight
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy
- Auto-HVAC mode

DUAL TECH
Passive Infrared
Ultrasonic

160°

1 - 100 fc

24 VDC
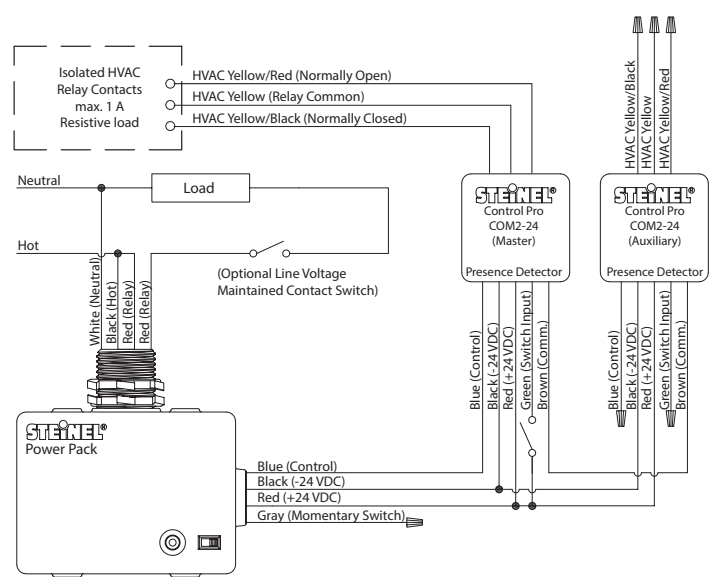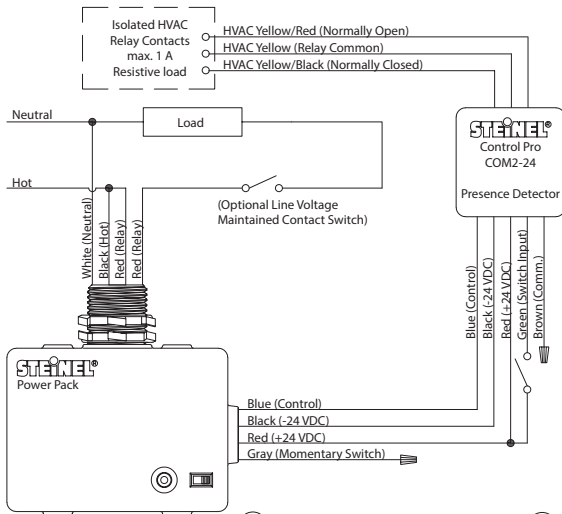18 - 24 VDC/VAC & HVAC

30 Sec - 30 Min

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Presence Detector

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Wiring

Isolated HVAC Relay Contacts max. 1 A Resistive load
HVAC Yellow/Red (Normally Open)
HVAC Yellow (Relay Common)
HVAC Yellow/Black (Normally Closed)

Neutral
Load
Hot
(Optional Line Voltage Maintained Contact Switch)

STEINEL
Control Pro COM2-24
Presence Detector

White (Neutral)
Black (Hot)
Red (Relay)
Red (Relay)

STEINEL
Power Pack

Blue (Control)
Black (-24 VDC)
Red (+24 VDC)
Green (Switch Input)
Brown (Comm.)

Blue (Control)
Black (-24 VDC)
Red (+24 VDC)
Gray (Momentary Switch)

Isolated HVAC Relay Contacts max. 1 A Resistive load
HVAC Yellow/Red (Normally Open)
HVAC Yellow (Relay Common)
HVAC Yellow/Black (Normally Closed)

HVAC Yellow/Black
HVAC Yellow
HVAC Yellow/Red

Neutral
Load
Hot
(Optional Line Voltage Maintained Contact Switch)

STEINEL
Control Pro COM2-24 (Master)
Presence Detector

STEINEL
Control Pro COM2-24 (Auxiliary)
Presence Detector

White (Neutral)
Black (Hot)
Red (Relay)
Red (Relay)

STEINEL
Power Pack

Blue (Control)
Black (-24 VDC)
Red (+24 VDC)
Green (Switch Input)
Brown (Comm.)

Blue (Control)
Black (-24 VDC)
Red (+24 VDC)
Green (Switch Input)
Brown (Comm.)

Blue (Control)
Black (-24 VDC)
Red (+24 VDC)
Gray (Momentary Switch)

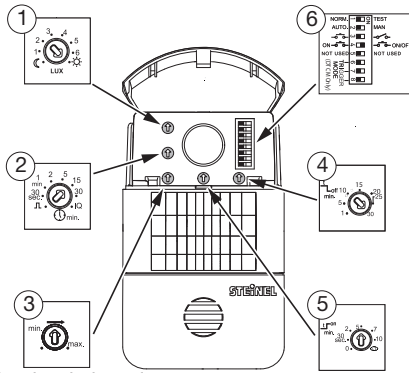## Settings

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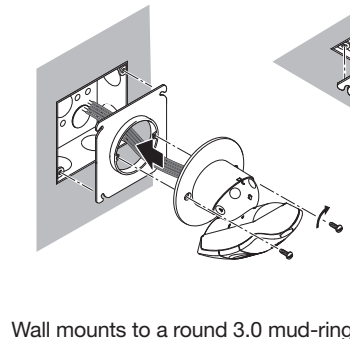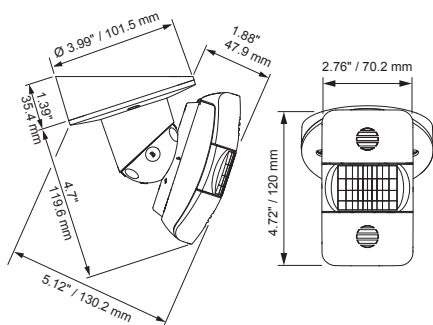DIP 3 - Momentary / Maintained switch option
DIP 4 - 'ON' only / 'ON' & 'OFF' manual switching
DIP 5 - Not used
DIP 6/7/8 - Trigger mode

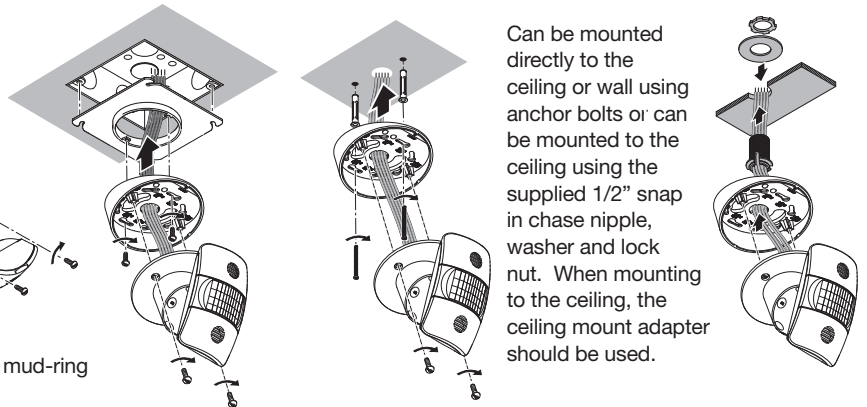| Trigger Mode Options	Initial Occupancy	Maintain Occupancy	DIP 6	DIP 7	DIP 8
Option 1 (factory setting)	Both	Either	↓ OFF	↓ OFF	↓ OFF
Option 2	Both	Both	↓ OFF	↓ OFF	↑ ON
Option 3	PIR	Either	↓ OFF	↑ ON	↓ OFF
Option 4	US	Either	↓ OFF	↑ ON	↑ ON
Option 5	Either	Either	↑ ON	↓ OFF	↓ OFF
Option 6	US	US	↑ ON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

·—·—·—· PIR Tangential Detection
· · · · · PIR Radial Detection
- - - - - PIR Presence Detection
▬▬▬▬ Wall

| ft. | 91 | 78 | 65 | 52 | 39 | 26 | 13 | 0 | 13 | 26 | 39 | 52 | 65 | 78 | 91 |
| m | 28 | 24 | 20 | 16 | 12 | 8 | 4 | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 |

- - - - - US Radial Detection
-·-·-· US Tangential Detection
········ US Presence Detection

| ft. | 45 | 39 | 32 | 26 | 19 | 13 | 6 | 0 | 6 | 13 | 19 | 26 | 32 | 39 | 45 |
| m | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |

Mounting

Ø 3.99" / 101.5 mm
1.88" 47.9 mm
1.39" 35.4 mm
2.76" / 70.2 mm
4.72" / 120 mm
4.7" / 119.6 mm
5.12" / 130.2 mm

Wall mounts to a round 3.0 mud-ring

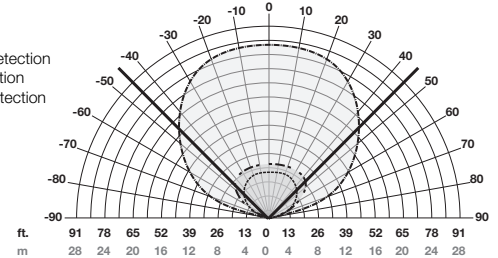Ceiling mounts to a round 3.0 mud-ring using the ceiling mount adapter

Can be mounted directly to the ceiling or wall using anchor bolts or can be mounted to the ceiling using the supplied 1/2" snap in chase nipple, washer and lock nut. When mounting to the ceiling, the ceiling mount adapter should be used.