

Designer's Choice:
NEW TECHNOLOGY!
Invisible Occupancy Sensor



CONCEALITE™
LIFE SAFETY PRODUCTS
A Division of Gow Industries, Inc.

www.concealite.com

SPACE STATION™

SERIES 2000 OCCUPANCY LIGHTING CONTROL SYSTEM

Product Overview

The Concealite SpaceStation Series 2000 offers a **completely concealed operation of occupancy sensors**. Occupancy sensors from other manufacturers offer only exposed and architecturally unattractive versions that are surface mounted. Concealite's SpaceStation can detect motion through many dense materials, so it can be installed completely out of sight behind any ceiling material (aside from metal).

SpaceStation Series 2000 detects motion via super high frequency electromagnetic waves and the Doppler Principle; automatically activating the room lighting when someone enters the room, then automatically deactivating the lighting when the room is no longer occupied.

Features

- Detects movement within a room when installed above suspended ceilings, gypsum board and decorative wood ceilings
- Occupancy sensor is completely concealed from view, and installation requires no visible ceiling penetration
- Sensor coverage pattern is omnidirectional
- Each SpaceStation will provide up to 25' x 25' coverage at a height of 12 feet (Functions up to 60 foot high ceiling applications)
- Field adjustable range control panels (RPC) can be set to cover only the room area, eliminating nuisance tripping in adjacent rooms
- Easily adjustable coverage range, sensitivity and time delay
- Time delay adjustable from 5 seconds to 25 minutes
- Superior stable performance consistently performs regardless of temperature, dust and smoke
- Provides hold-off daylighting control when ambient light is greater than daylighting setpoint (optional).
- Optional T-Grid mounting bracket facilitates easy installation in suspended ceilings
- Simple line voltage wiring does not require a power pack
- SpaceStation Dimensions: 4.0" x 4.0" x 2.0" deep (101.6mm x 101.6mm x 50.8mm deep)



Keep Occupancy Sensors Out of Sight with Concealite's SpaceStation Control System



SpaceStation Occupancy Sensor Control System Provides Invisible Ceiling Installation



SpaceStation

Invisible Occupancy Sensing System



FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
	APPROVAL:	PROJECT LOCATION:

Installation

The SpaceStation Series 2000 concealed occupancy sensor utilizes a ceiling area mounted enclosure and the RCP system. Consisting of four adjustable Range Control Panels for mounting above ceiling materials. The sensor is designed to operate in conjunction with the room light circuits, universal 120 VAC / 277 VAC. The sensor is designed to operate with additional sensors for complete coverage in larger rooms that may also require more than one lighting circuit. Additional lighting circuits can also be controlled simultaneously with the command module which allows any number of circuits (poles) to be specified to match the number of lighting circuits within the same room. The sensor is provided within a standard junction box for lighting circuit branch circuit wiring entrance. The SpaceStation sensor featured in-field adjustable range control panels can be positioned for proper coverage of each room. The sensor offers in field adjustable sensitivity area and time delay operation settings. And optional Daylight interface for areas where ambient light contribution can reduce the lighting operation costs when not needed. For complete installation and operation instructions, please refer to the installation instructions included with each sensor unit.

New Projects

For new projects, SpaceStation sensors can be installed in accessible ceilings utilizing the T-Bar mounting kit and can also be installed in gypsum board non-accessible ceilings when ordered with the optional ARM mounting kit.

Retrofit/Remodeling

For retrofit/remodeling applications all ceiling installations can utilize the compact sized SpaceStation with the ARM option which allows the sensor to be easily placed into the ceiling area from a remote location through other required ceiling penetrations (i.e. Light fixtures, J-boxes) for a complete concealed installation.

Operation

SpaceStation operates at 120 or 277 VAC and utilizes super high frequency technology to control lighting based on occupancy. It sends out electromagnetic waves that bounce off nearby surfaces, and uses the Doppler principle to analyze changes in the return waves to detect motion in the area. When motion is detected, SpaceStation turns on lighting, or turns off lighting when no motion is detected for the preset time delay.

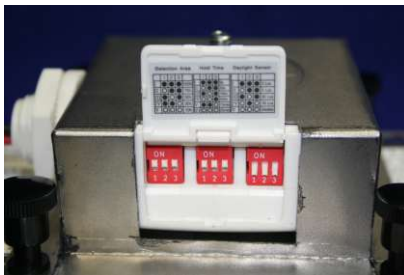
Product Specifications

- The occupancy sensor shall be Concealite SpaceStation Series 2000.
- 120/277 VAC, 50/60 Hz
- Load Requirements @ 120 VAC, 60 Hz: 400 W ballast or 800 W tungsten. 277 VAC, 60 Hz: 0-1200 W ballast
- Power Input: Stand By .6W, Operating Power 1.2W
- Time Delay: 5 seconds to 25 minutes
- Operating frequency: 5.8 GHz
- Power Output: 1 mW
- Dimensions: 4.0" x 4.0" x 2.0" deep (101.6mm x 101.6mm x 50.8mm deep)
- Weight: 16 ounces
- Operating Temperature Range: -4-131°F (-20-55°C)
- FCC Approved – This product is in compliance with FCC regulations as to not cause interference with any other systems
- UL and CUL Listed; Complies with California Title 24 Code

Limited Warranty

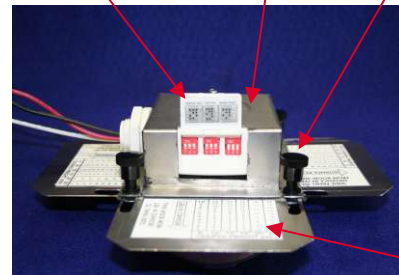
All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of five years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

SpaceStation Series 2000



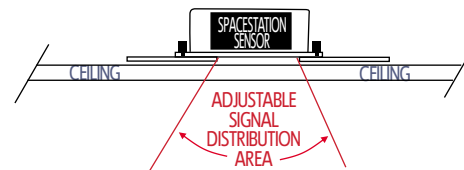
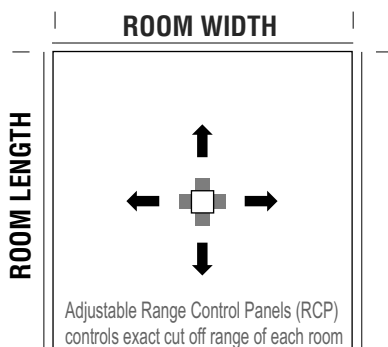
Timing Adjustment

ACCESS TO TIME DELAY & SENSITIVITY ADJUSTMENT
ELECTRICAL JUNCTION BOX
LOCKING KNOBS TYPICAL OF FOUR



METAL RANGE CONTROL PANEL (RCP) TYPICAL OF FOUR

Dimensions: 4"W x 4"W x 2"D



Use optional T-bar bracket for support mounting to inverted T-grid lay in suspended ceilings

Each SpaceStation will provide coverage up to:

- 20 feet by 20 feet at 8 foot ceiling height
- 22 feet by 22 feet at 10 foot ceiling height
- 25 feet by 25 feet at 12 foot ceiling height
- (Ranges up to 50 feet by 50 feet at 60 foot ceiling height - contact factory)

Ordering Information

Example Spec: SS-2001-A-CM4-TBAR

Model	SS	2001	A	CM4
SpaceStation 2000				
Circuit	Standard - One Circuit Control			
Mounting	A Accessible Ceiling G Gypsum Board O Other (Specific Non-Metal Ceiling Type)			
Command Module	Required for Multiple Circuits			
	CMXX Command Module Sensor Controls (Enter CM Then Number of 20 AMP Circuits/Poles to be Controlled)			
Options				

OPTIONS

TWO OR MORE SENSORS
Parallel connect multiple (two or more) sensors operating together for areas exceeding range coverage of one lighting sensor.

DIMMING BALLAST CIRCUITS MUST BE CONTROLLED BY THE COMMAND MODULE OPTION

Note: Larger Rooms Use Multiples of the SpaceStation Series 2000 with Command Module (Option CMXX) to cover any size room. Consult factory for higher ceiling applications.

20 Amp Circuit Rated (Higher Amperes Available)



202 Elk Street, P.O. Box 160
Elkton, SD 57026
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TBAR ARM	Suspended Accessible Ceilings T-Bar Mounting Kit Gypsum Board / Inaccessible Ceilings Allows Insertion of Sensor Into Inaccessible Ceilings via Light Fixture / J-Box Openings
HVAC	Mechanical System Control Interface Contactor (ie. Exhaust, Fans, A/C, etc.)
MD	Motorized Door Control Interface Contactor
RDS	Remote Daylight Sensor – Flush Ceiling Mounted
SM	Surface Mounted White Enclosure
WL	Wet Location / Outdoor NEMA 4X locations enclosure. Concealed or exposed (field paintable)
OR	OR - Override FDP Concealed Wall Switch

Note: These specifications are subject to change.



Area Sensitivity Adjustment (SpaceStation Centered in Room)

Note: Maximum 60' Height Provides Maximum Range Coverage to 50 x 50 Feet.

See SpaceStation installation sheet for full information on remote mounting, wiring, and adjustments.

Ceiling Height	Room Area Range Coverage at Sensitivity % Setting				
	10%	35%	50%	75%	100%
8 Feet	7'	8'	9'	12'	20'
	x	x	x	x	x
	7'	8'	9'	12'	20'
10 Feet	9'	10'	13'	17'	22'
	x	x	x	x	x
	9'	10'	13'	17'	22'
12 Feet	8'	9'	12'	20'	25'
	x	x	x	x	x
	8'	9'	12'	20'	25'

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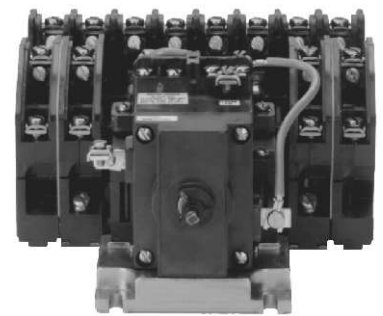
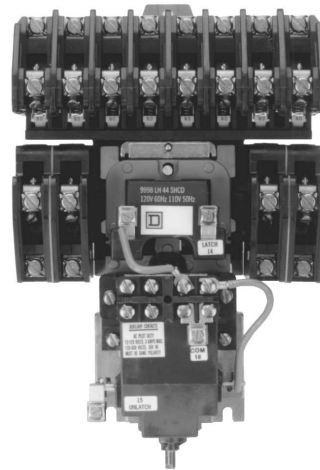
SERIES 2000 OCCUPANCY LIGHTING CONTROL SYSTEM

Command Module Sensor Controls

Features

- 30 Amp ballast lighting rating – 20 Amptungsten lighting rating
- Electrically held
- 2 through 12 pole versions
- Field-convertible contacts with N.O. and N.C. indicators (8 N.C. contacts maximum)
- Silver-Cadmium-Oxide double break contacts

Available in 120vac or 277vac versions.
 Specify as CMXX-120 or CMXX-277.



Ordering Information

Example Spec: SS-2001-A-CM4-TBAR

Model	SS	2001	A	CM4	OPTIONS
SpaceStation 2000					
Circuit					
Standard - One Circuit Control					
Mounting					
A Accessible Ceiling G Gypsum Board O Other (Specific Non-Metal Ceiling Type)					
Command Module Required for Multiple Circuits					
CMXX Command Module Sensor Controls {Enter CM Then Number of 20 AMP Circuits/Poles to be Controlled}					
Options					
TBAR					Suspended Accessible Ceilings T-Bar Mounting Kit
ARM					Gypsum Board / Inaccessible Ceilings Allows Insertion of Sensor Into Inaccessible Ceilings via Light Fixture / J-Box Openings
HVAC					Mechanical System Control Interface Contactor (ie. Exhaust, Fans, A/C, etc.)
MD					Motorized Door Control Interface Contactor
RDS					Remote Daylight Sensor – Flush Ceiling Mounted
SM					Surface Mounted White Enclosure
WL					Wet Location / Outdoor NEMA 4X locations enclosure. Concealed or exposed (field paintable)
OR					OR - Override FDP Concealed Wall Switch



NEMA 1 Enclosure Included



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Note: Install with any ceiling type other than metal.