DT Quattro DCS

Digital Control Solution - Presence Detector

Project Name:
Location:

69344	65330	69196	
			

DT Quattro DCS Specifications	
Item No.	69344 DT Quattro DCS
Accessories	65330 WGC Wire Guard Cage 69196 DCS Controller
Voltage	12 - 23 VAC (24 mA)
Device Equipment	12
Protocol	DALI2 Input Device
Sensing Technologies	Passive Infrared (PIR), single pyro, 11 detection levels, 520 switching zones, ultrasonic 40 kHz
Time Delay Setting	Test Mode 8 sec. Normal Mode 30 sec. - 30 min. IQ mode (automatic adjustment to the usage profile)
Light Level Setting	10 - 1000 lux / 1 - 92 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 m (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)

The DT Quattro DCS 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 photocell to maximize energy savings. STEINEL’s world class PIR optics and ultrasonic signal processing provides unparalleled line of sight and volumetric presence detection. The convenient polarity insensitive data line bus enables multiple sensors, photo sensors, switches and fixtures to link together providing convenient code compliant solutions. 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 Digital Control Solution (DCS) group of sensors are available in multiple technologies for the control of heating, ventilation and air conditioning as well as lighting. Time saving wireless commissioning is accomplished via Bluetooth connection from a Smart Phone or Tablet to a DCS Controller, which communicates to the sensor by the 2 wire bus.

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.

Key Features:

- Low voltage (12-23 V) digital sensor for use with a DCS controller
- PIR & ultrasonic (40 kHz) presence detection
- Integrated photo cell for daylight harvesting
- Mounts to a 4” square box, 4” octagon box, round 3.0 mud-ring or directly to the ceiling with quick mount spring tabs
- Polarity insensitive 2 wire bus
- IQ Mode dynamically adjusts the ‘ON’ time delay by learning individual room occupancy

DUAL TECH
Passive Infrared
Ultrasonic

20 x 20 Ft Presence
32 x 32 Ft Max

1 - 100 fc

30 Sec - 30 Min

DT Quattro DCS

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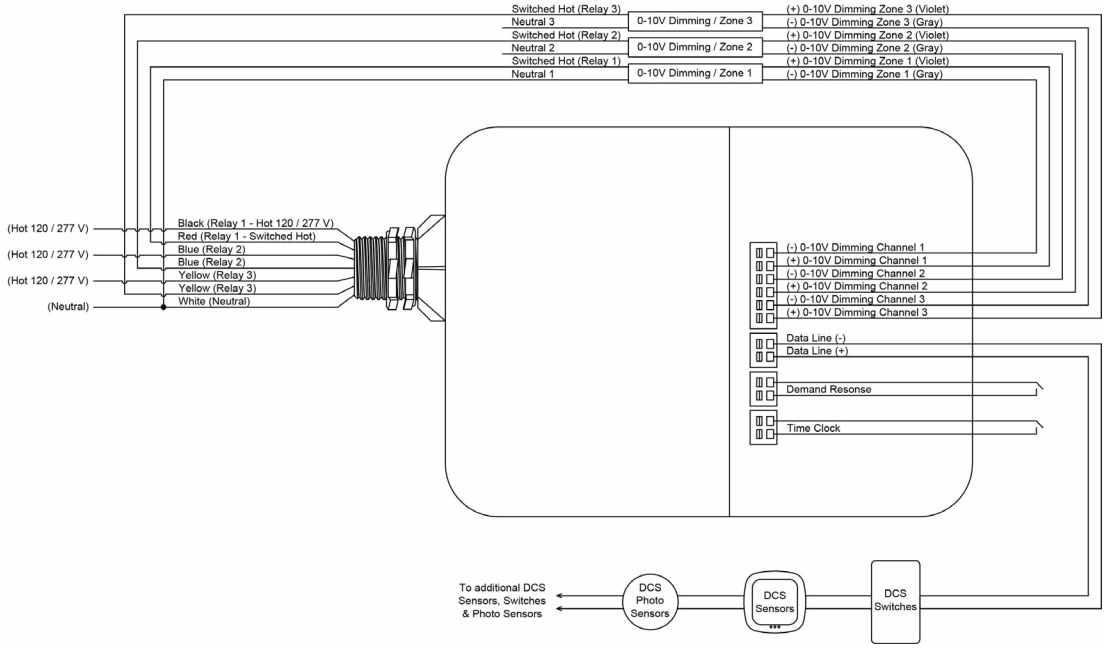
Wiring



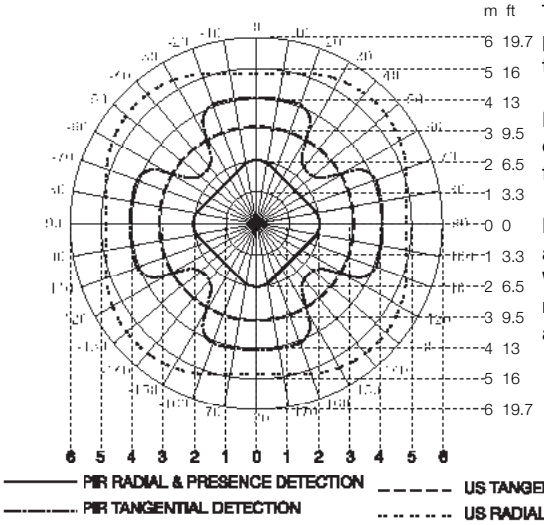
Trigger Mode

Trigger Mode Options	Initial Occupancy	Maintain Occupancy
Option 1	Both	Either
Option 2	Both	Both
Option 3	PIR	Either
Option 4	US	Either
Option 5 Factory Setting	Either	Either
Option 6	US	US
Option 7	PIR	PIR
Option 8	Either	Both

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.

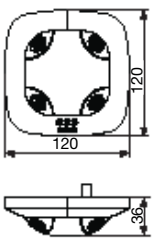


Tangential - motion perpendicular to the sensor

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

Mounting



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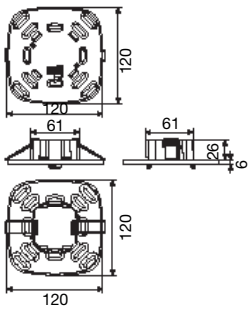
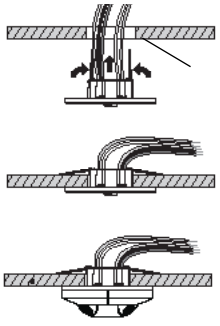
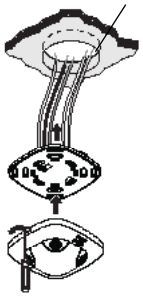


Mounts to a 4“ square box, 4“ octagon box or round 3.0 mud-ring



Mounts directly to ceiling with quick mount spring tabs

Min. 68 mm (2 11/16 in)
Max. 76 mm (3 in)



ad module

ensor Module