Motion sensor

Dual technology PIR/Ultrasonic motion detector ceiling recessed

Model number:	**DIU-9-LC**
Connects to:	digital input
Mounting:	Wall or ceiling

Applications

- Occupancy detector
- Ready light
- Lighting control
- Hotel GRMS

Ultrasonic sensors are highly suitable for spaces in which a line of sight is not possible, such as partitioned spaces, and in spaces requiring a higher level of sensitivity. Examples of such spaces include restrooms, open offices, enclosed hallways and stairways.
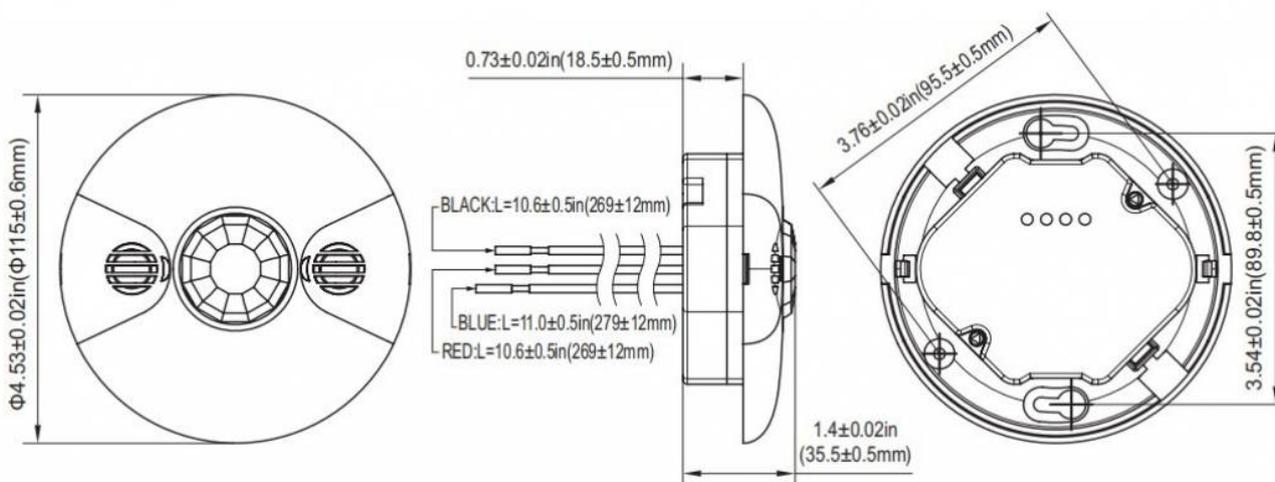
Installation instruction

- Ensure that there are no obstructions (plants, screens, furniture etc.) in the field of view that may cause incorrect cover/operation of the detector.
- Install the detector at proper height on a rigid surface. Do not install the detector on vibrating
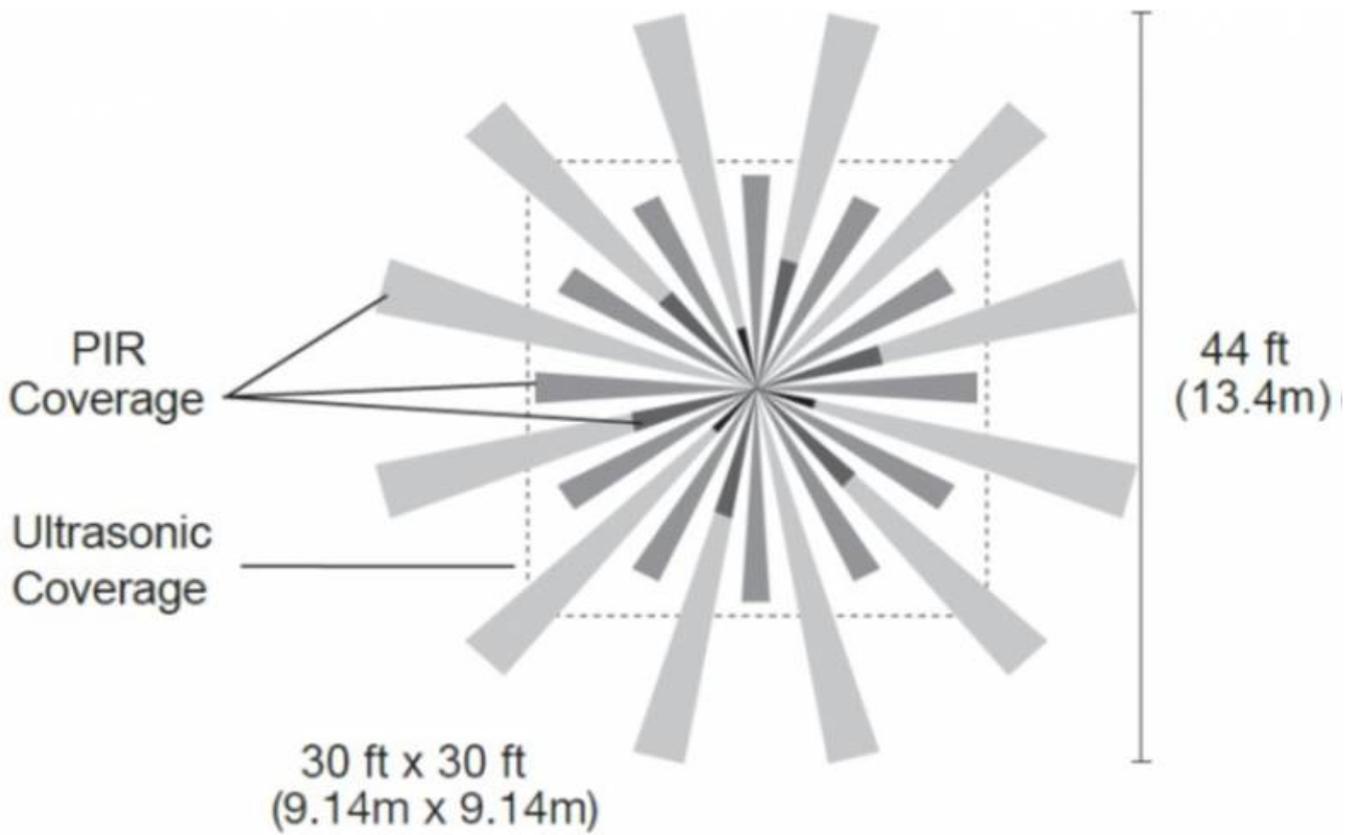
surface.

Technical specifications

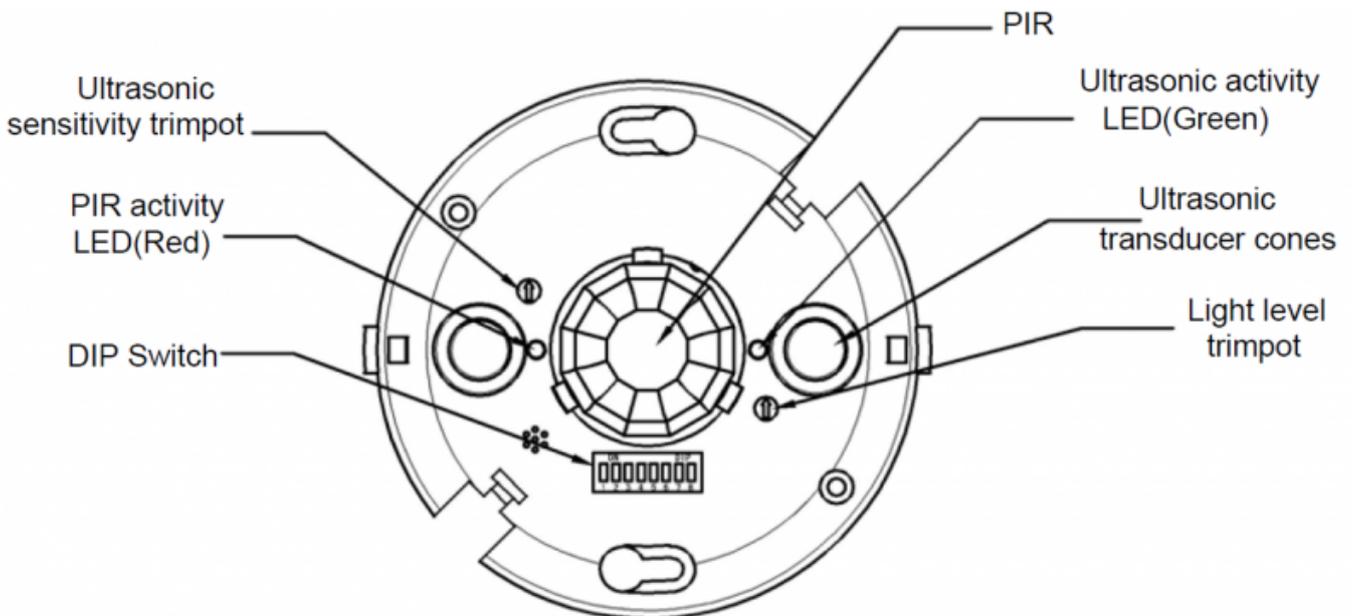| Power supply	24 VDC
Currentconsumption	20mA
Temperature	-0°C ~ 55°C
Humidity	< 93% non condensing
Output contact rating	100,000 cycles @ 24 VDC, < 9mA
Range	9m US, 12m PIR(Adjustable)
Installing height	Max. 3.5 m
Detection	360 deg

Dimension

Range and detection pattern

PIR
Coverage

Ultrasonic
Coverage

44 ft
(13.4m)

30 ft x 30 ft
(9.14m x 9.14m)

Adjustments

PIR

Ultrasonic activity
LED(Green)

Ultrasonic
sensitivity trimpot

Ultrasonic
transducer cones

PIR activity
LED(Red)

Light level
trimpot

DIP Switch

DIP switch settings

Trigger Mode	Initial Trigger	Maintain Load Output	2	3	4	
Option 1	Both	Either	↓	↓	↓	◄
Option 2	Either	Either	↓	↓	↑	
Option 3	PIR	Either	↓	↑	↓	
Option 4	PIR	PIR	↓	↑	↑	
Option 5	Ultrasonic	Ultrasonic	↑	↓	↓	
Option 6	Both	Both	↑	↓	↑	

PIR Sensitivity	1	
50%	↓	
100%	↑	◄

Override	8	
Disabled	↓	◄
Enabled	↑	

Time Delay	5	6	7	
5 Sec/Autoset	↓	↓	↓	◄
30 Seconds	↓	↓	↑	
5 Minutes	↓	↑	↓	
10 Minutes	↓	↑	↑	
15 Minutes	↑	↓	↓	
20 Minutes	↑	↓	↑	
25 Minutes	↑	↑	↓	
30 Minutes	↑	↑	↑	

↓=OFF ↑=ON ◄=Factory Setting

Mounting

Figure 3
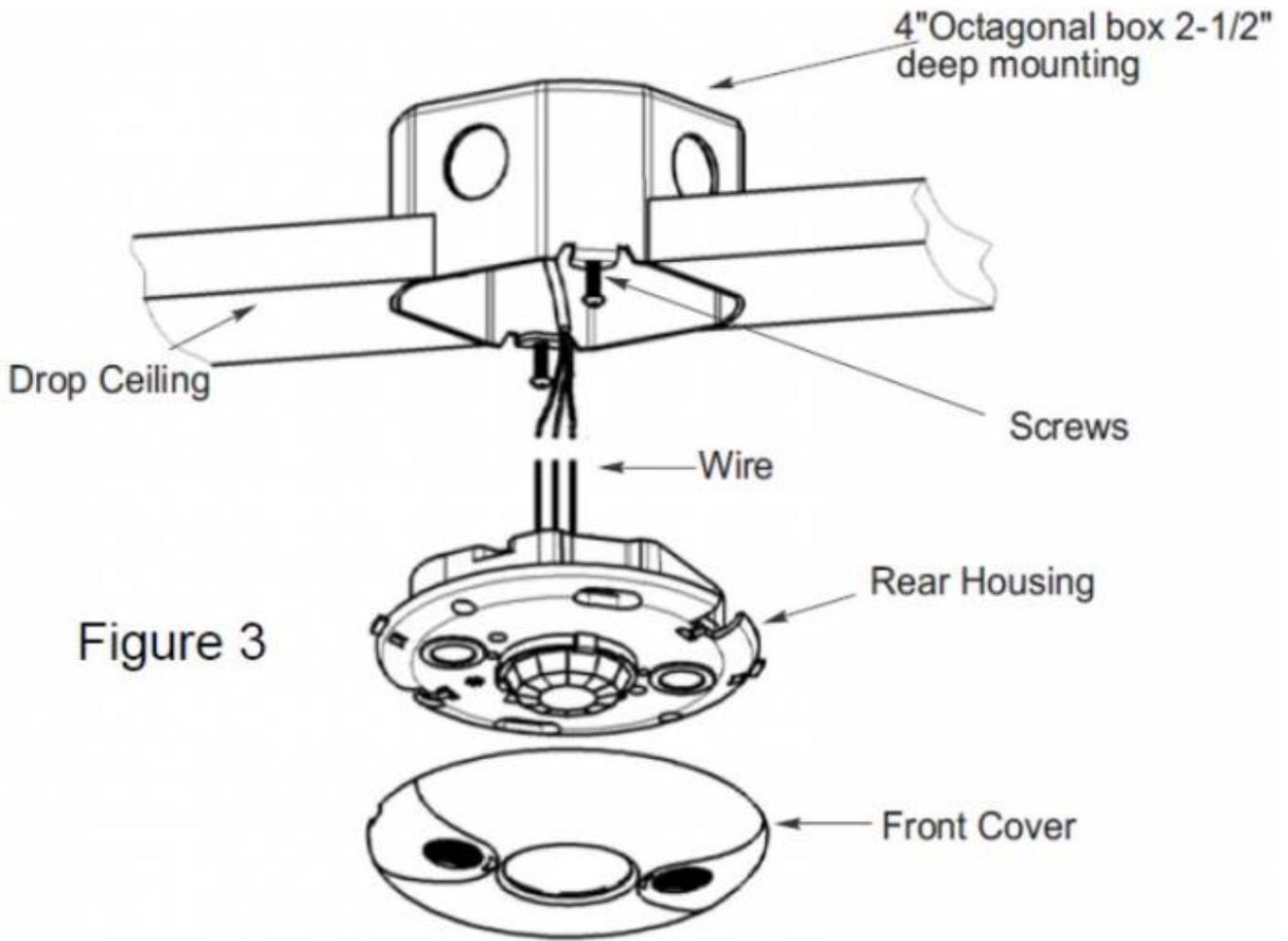
Terminals

Power supply	+ **Red**	Power supply
Common	- **Black**	
Signal	+ **Blue**	Output