US

STEINEL®
PROFESSIONAL

Information

IR Quattro MICRO DCS
IR Quattro Slim XS DCS
IR Quattro DCS
IR Quattro HD DCS
US Quattro DCS
US Oneway DCS
DT Quattro DCS
US Hallway DCS

CONTROL PRO SYSTEM

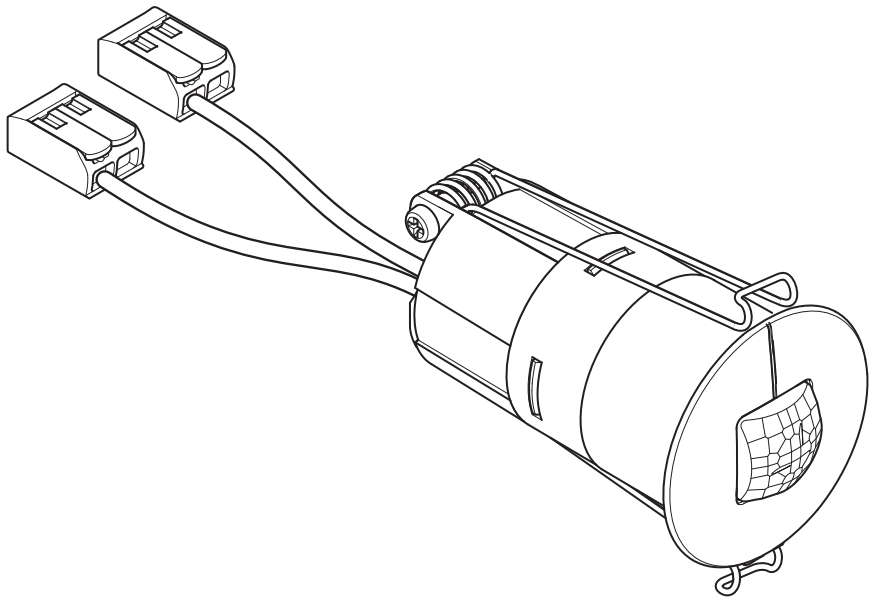
US

STEINEL® PROFESSIONAL

Information

IR Quattro MICRO DCS

3.1



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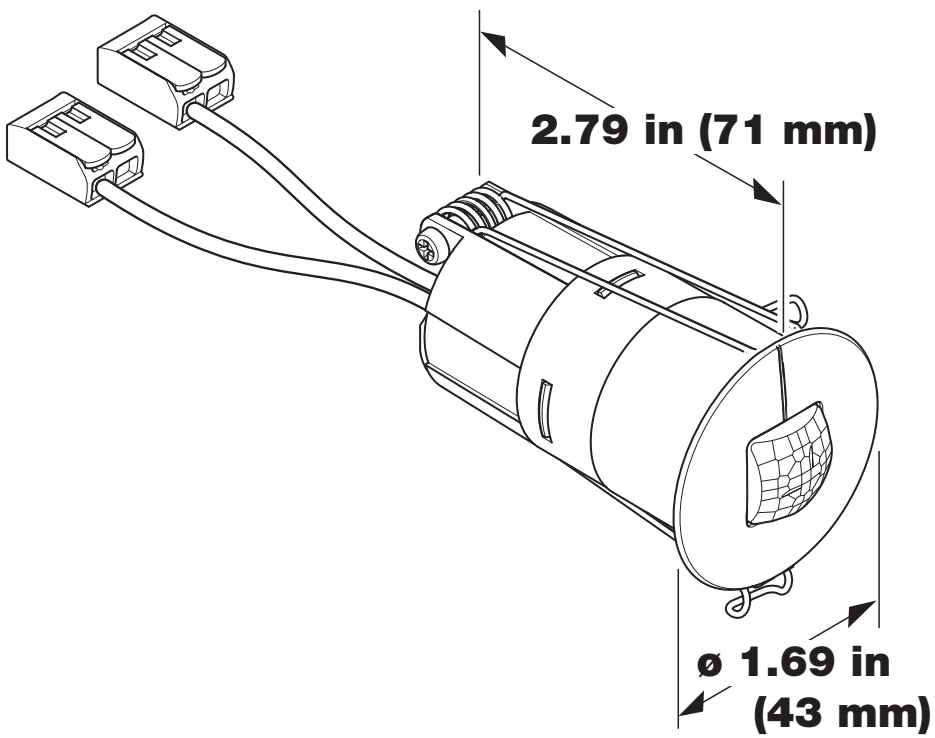

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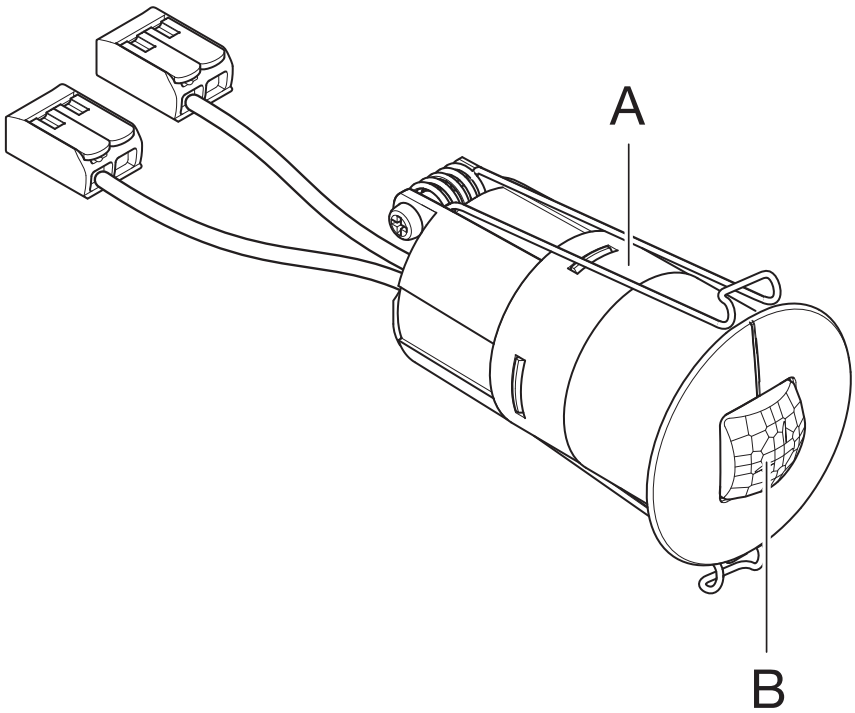

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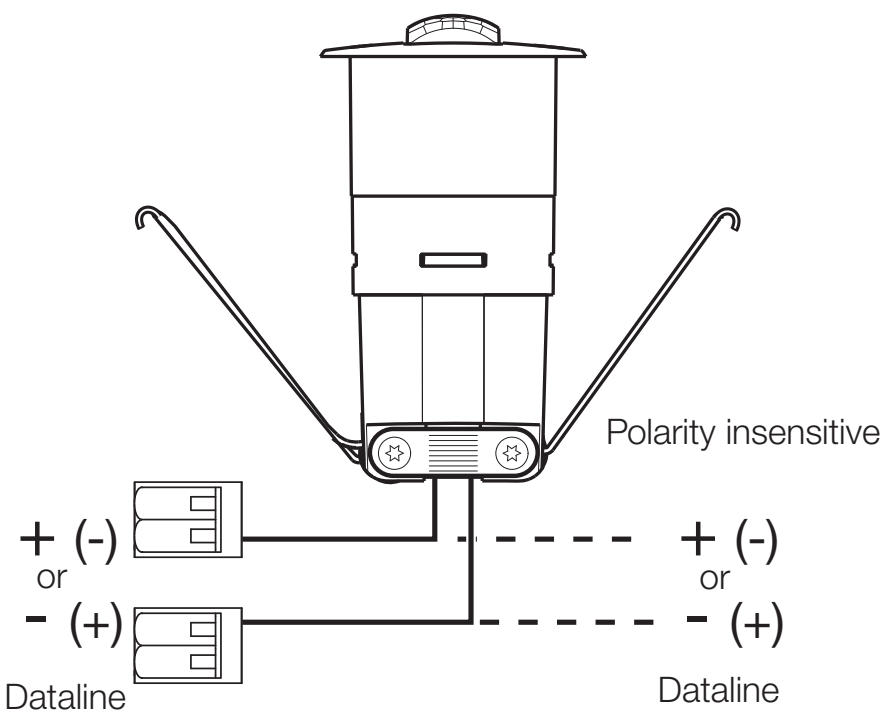

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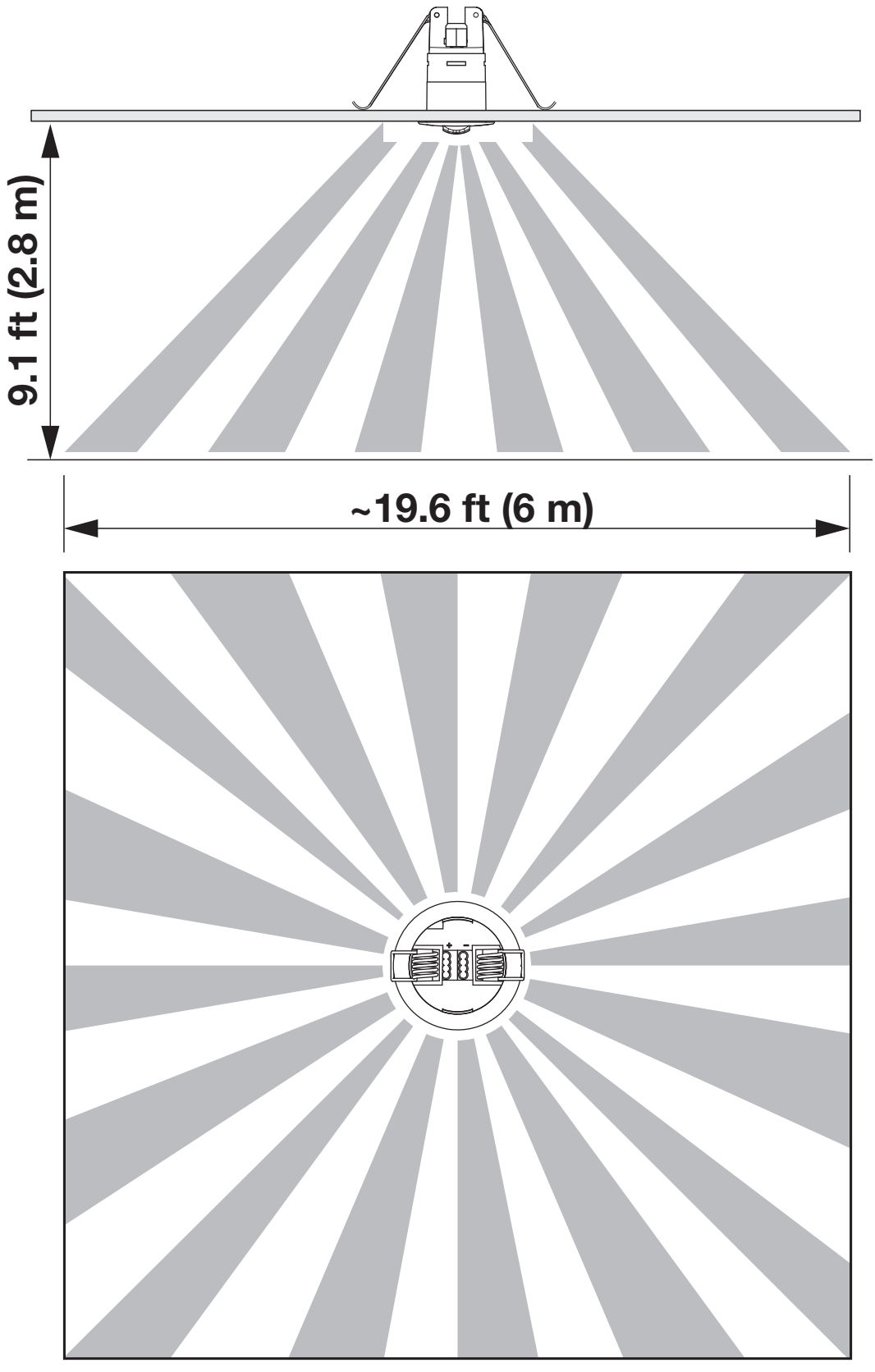

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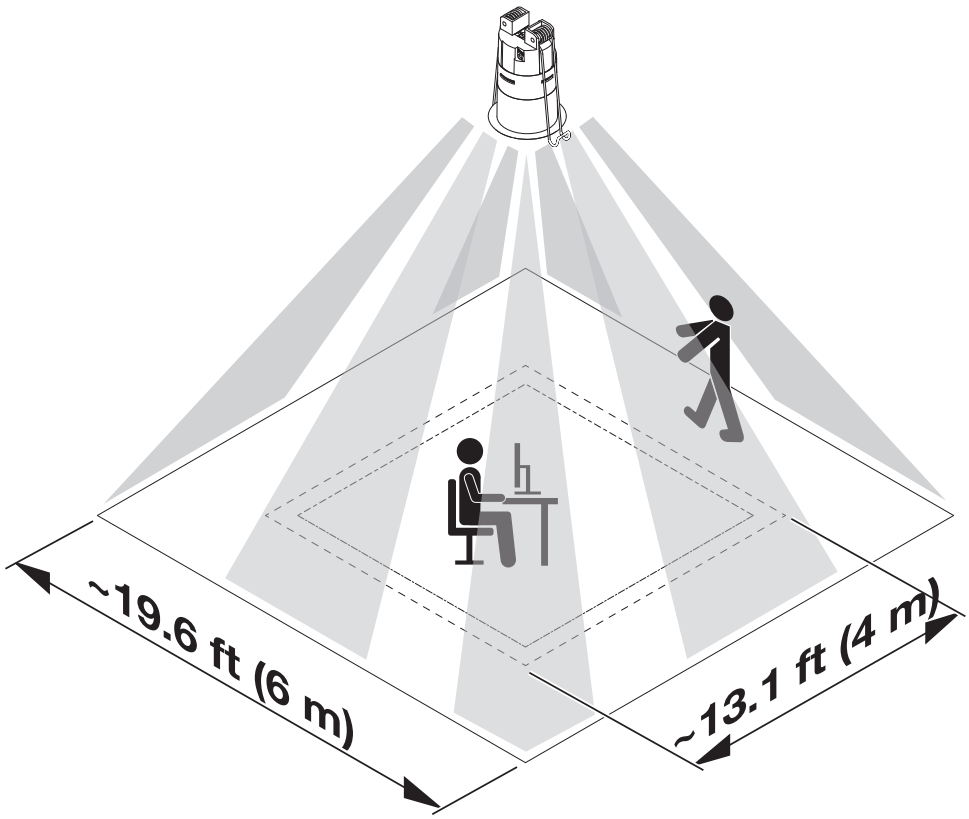

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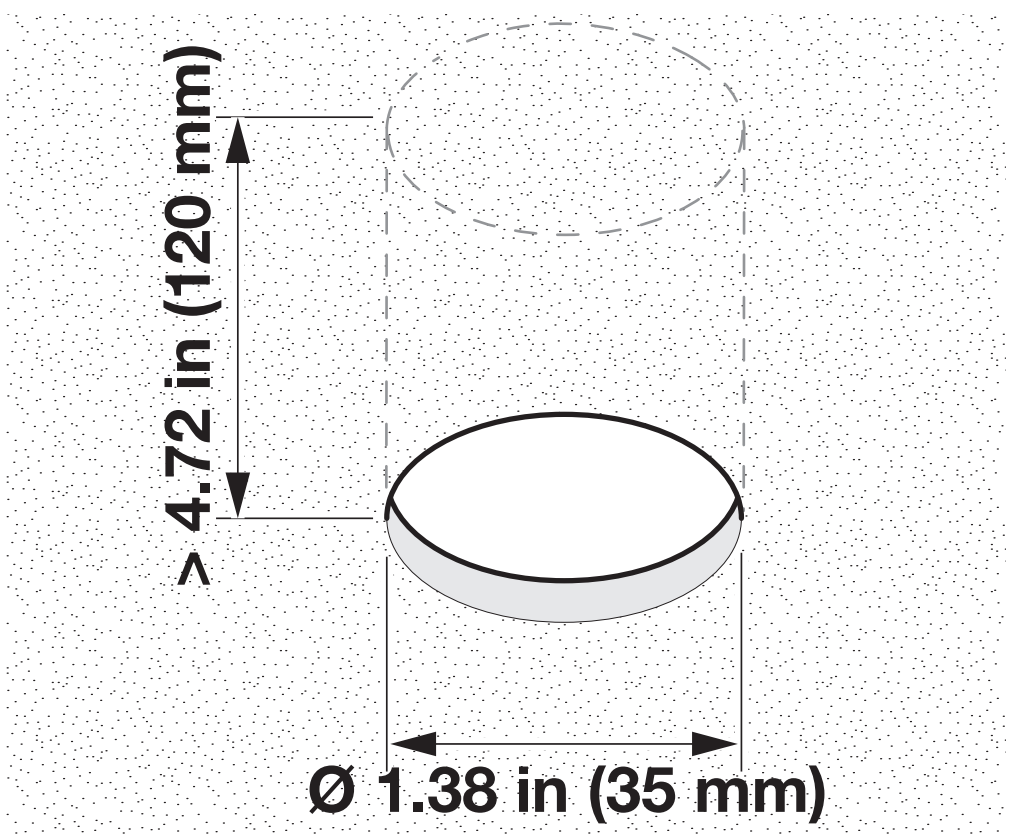

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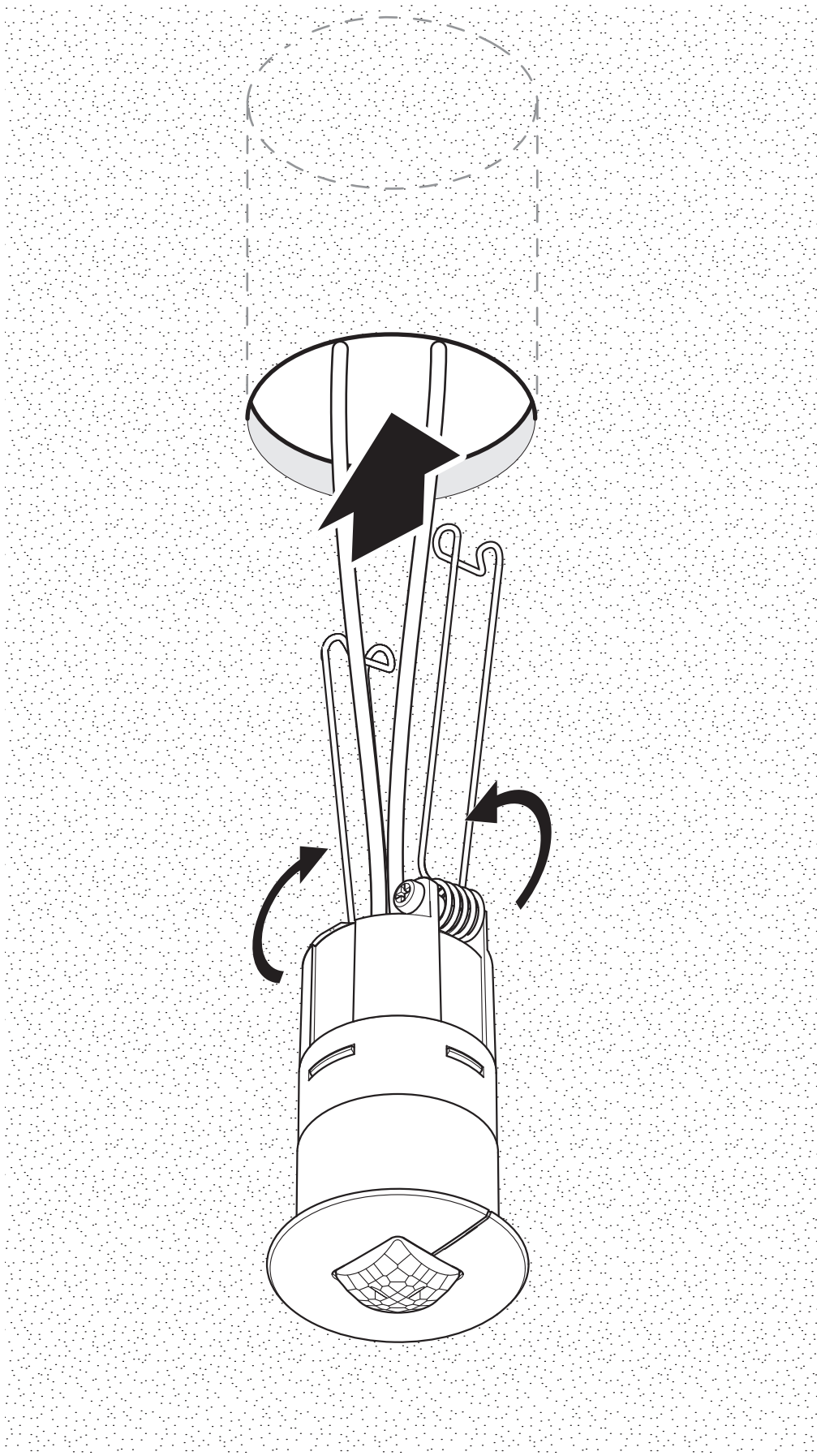


US

1. Installer

This high-quality product has been manufactured, tested and packaged with the assurance of your complete satisfaction. Please read all of the instructions before installation.
This will help you to be familiarized with all the features and options available to you with these devices. This will also assist you to minimize installation time and provide maximum energy savings and trouble-free operation.

2. Safety Warnings

WARNING

- The wiring of this device must be carried out professionally and in accordance with all local and National Electric Codes and electrical operating conditions.
- Class 2 devices are not suitable for Class 1 installations.

3. IR Quattro MICRO DCS

Product Description
The IR Quattro MICRO is a PIR motion detector with compact size after installation, low overall height and a micro precision lens (15 x 15 mm). The small 360° infrared presence puts on a great performance, covering 36 m^2. IP65 protection from the front makes it suitable for rooms exposed to moisture and sofit. The two wire polarity insensitive Data Line Input communicate motion and light level to the DCS.

Proper use
– Presence detector for indoor ceiling and sofit mounting.
– Built-in depth at least 4.72 in (120 mm).

Package contents **(Fig. 3.1)**

Product dimensions **(Fig. 3.2)**

Product components **(Fig. 3.3)**
A Sensor module
B Micro lens

4. Wiring

– The sensor is a polarity insensitive device. This means it can be connected to the Data Line provided by the DCS.
– The sensor is only intended for concealed, indoor installation in ceilings and sofit.

Wire labelling:
Red and blue (polarity insensitive).

The lead between the DCS and the sensor must be no longer than:
– 328 ft (100 m): 20 AWG
– 492 ft (150 m): 18 AWG
– 656 ft (200 m): 16 AWG
– 984 ft (300 m): 14 AWG
After the sensor is powered on it flashes for 10 s.

Note on parallel connection:
Several sensors can be connected on the same bus. Check technical specifications of the DCS for maximum number of bus participants.

5. Mounting

- Check all components for damage.
- Do not use the product if it is damaged.
- Select an appropriate mounting location, taking the reach and motion detection into consideration. **(Fig. 5.1/5.2)**

Mounting procedure

- Drill a hole in the ceiling of max. Ø 1.38 in (35 mm). **(Fig. 5.3)**
- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.4)**
- Insert the sensor into the mounting hole. **(Fig. 5.4)**
- Wait for the system to reboot.
- Make settings.
  ➔ "6. Function / Setting"
- After installing the sensor starts to flash once a second for aprox. 2 minutes. Follow the next steps on the commissioning App of the DCS.

6. Function / Setting

The motion detection values and light levels measured by the sensor can be requested from the DCS controller App.

LED function

Red LED:

– During installation and Data Line addressing, LED flashes 1 x per second.
– After initialization is concluded the LED will turn off indicating normal working mode.
– In case of a Data Line bus reset, the sensor LED will blik indicating sensor adressing.

7. Maintenance / care

The product requires no maintenance.
The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

8. Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.

Do not dispose of electrical and electronic equipment as domestic waste.

9. Warranty

STEINEL America warrants its products against defects in material or workmanship for a period of five years. STEINEL will replace or repair the item provided that it has not been altered or subjected to abuse, accident, improper installation or improper use. There are no obligations or liabilities on the part of STEINEL for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

5 YEAR MANUFACTURER'S WARRANTY

10.Technical specifications

Dimensions Ø × D	Ø 1.69 in × 2.79 in (43 × 71 mm)
Power supply	4 mA/2 Bus participants, 12 - 22.5 VDC , (class 2)
Sensor technology	Passive infrared (PIR)
Square detection zone (Coverage at 2.8 m/9 ft installation height)	radially 13.1 x 13.1 ft (4 x 4 m) tangentially 19.6 x 19.6 ft (6 x 6 m)
Angle of coverage	360°
Light measurement	0.2 - 92 fc
Mounting height	6.5 - 16.4 ft (2 - 5 m)
IP rating	Environment IP65 rated (Front side)
Temperature range	-13°F to +131°F (-25°C to +55°C)
UL	UL 2043 Plenum rated
	Made in Romania
	www.steinel.net

11.Troubleshooting

Malfunction	Cause	Remedy
Sensor not detecting motion	■ Sensor is not wired properly to the Data Line	■ In the DCS App check if the bus connection is working properly over the LED blinking function available on the sensor settings page
Sensor is wired up properly but still not reacting to motion	■ Additional sensor settings in the DCS App need to be checked and corrected	■ Check complete assignment of the sensor functionalites for the itended lighting zones in the App configuration. Make sure the sensor is assigned to the proper zone and the desired sequence of operation is selected
Sensor sending motion detection signal when it should not	■ There is interference, e.g. fan, air conditioning system or other source of heat, in the detection zone ■ Sensor near Wi-Fi or other wireless communication source	■ Relocate the sensor ■ Install at least 6 ft away from the wireless communication source

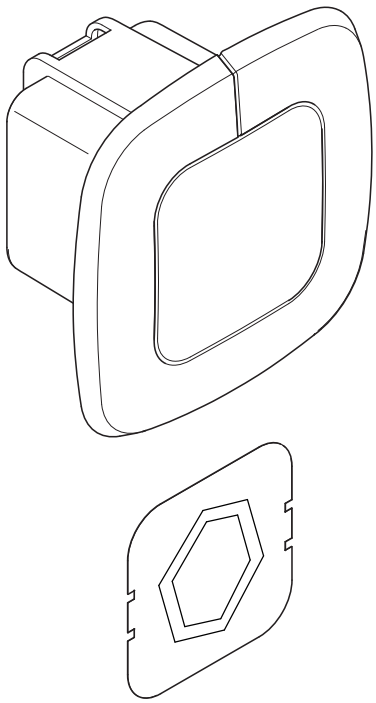
US

STEINEL® PROFESSIONAL

Information

IR Quattro SLIM XS DCS

3.1



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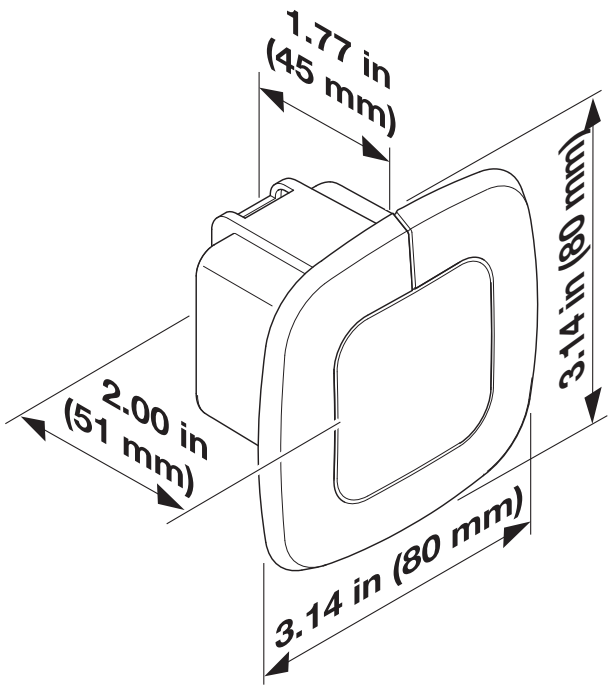

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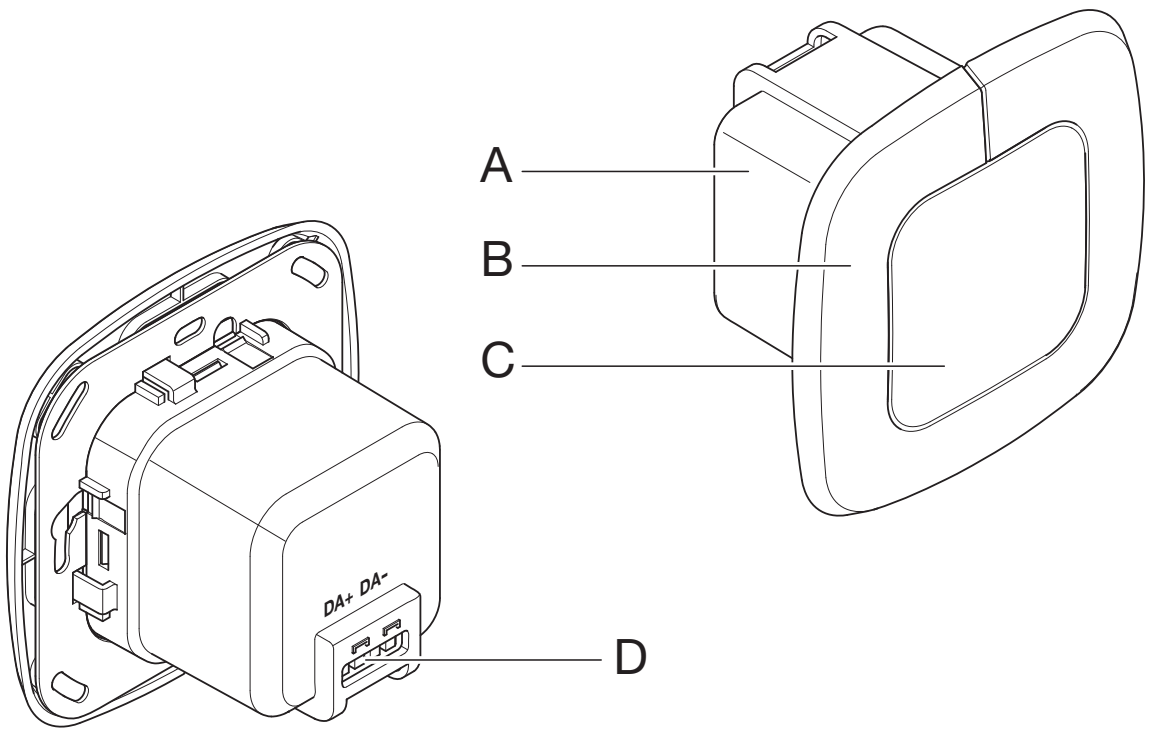
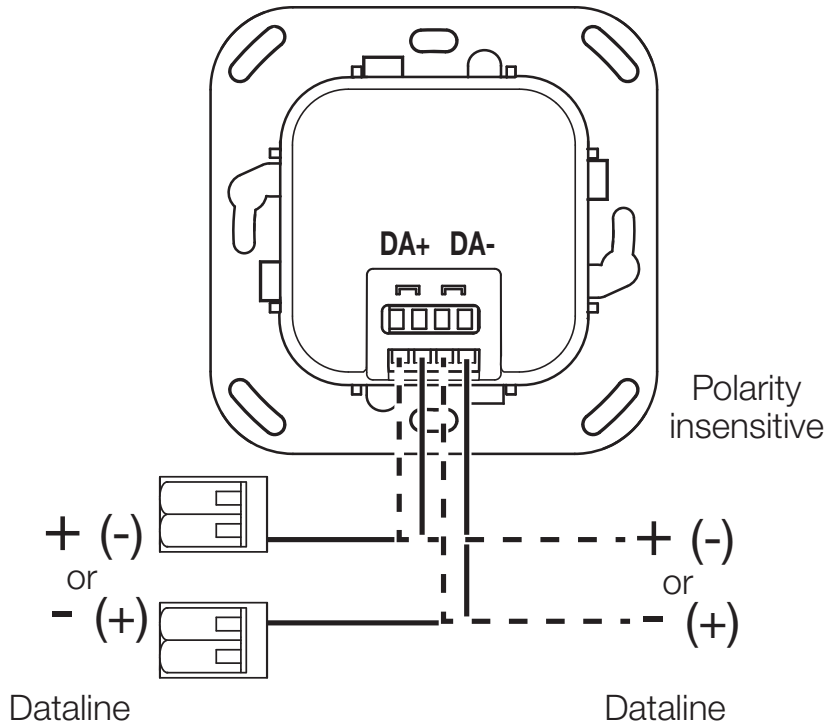
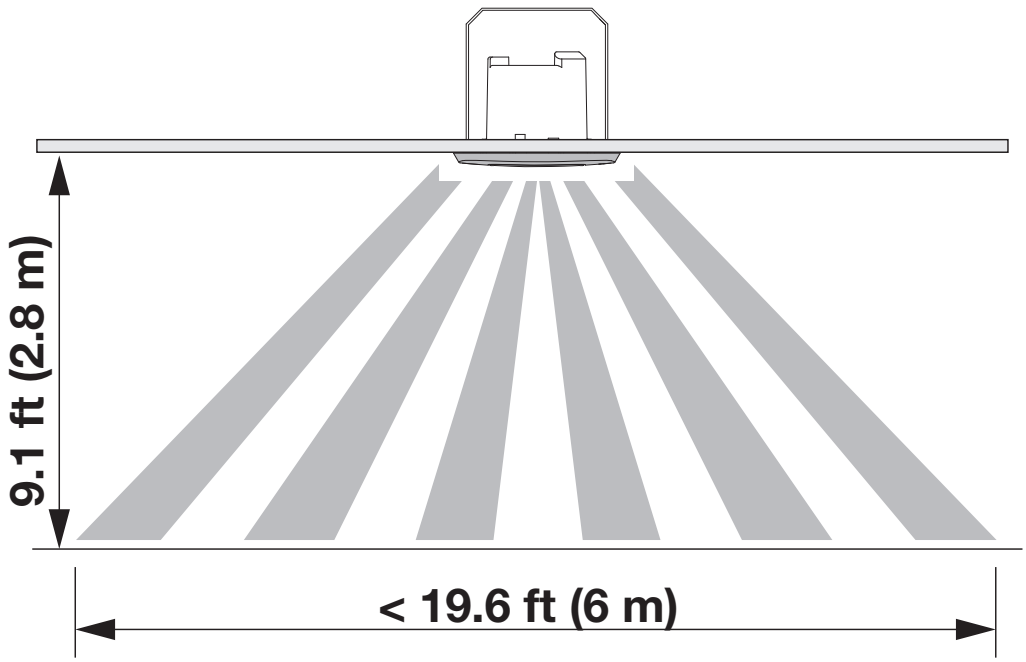
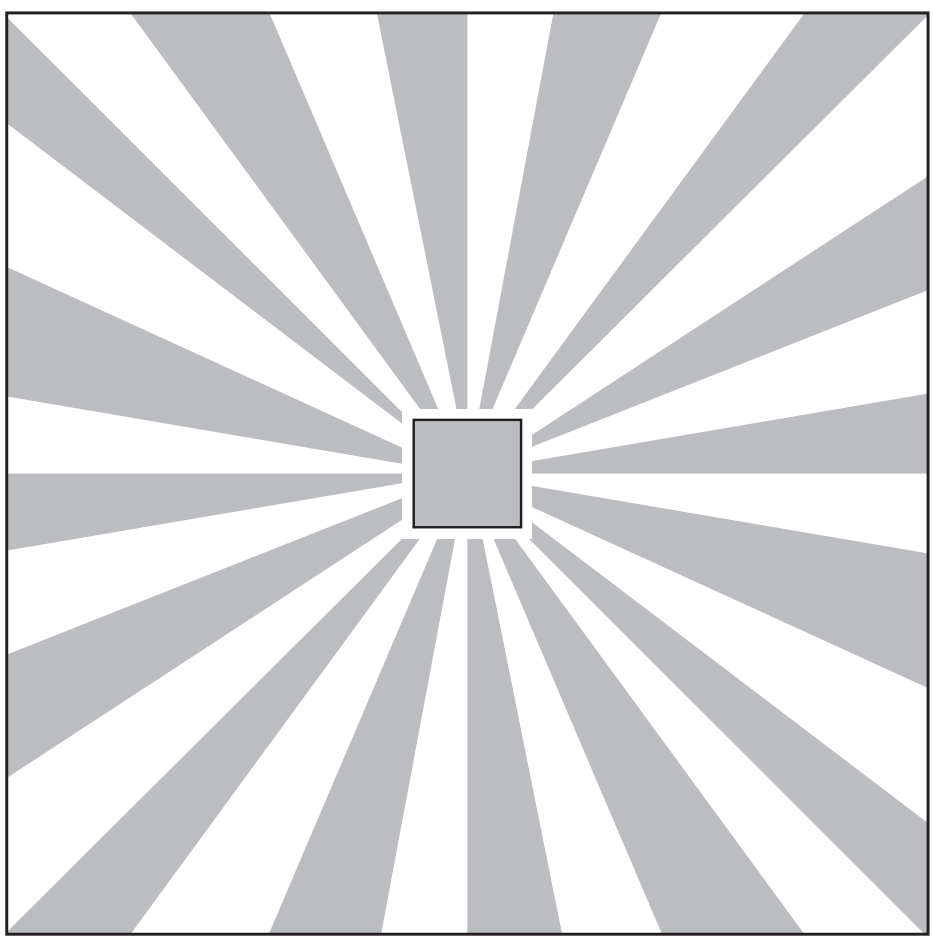

A
B
C
D
DA+ DA-

4.1


DA+ DA-
Polarity
insensitive
+ (-)
or
- (+)
Dataline
+ (-)
or
- (+)
Dataline

5.1





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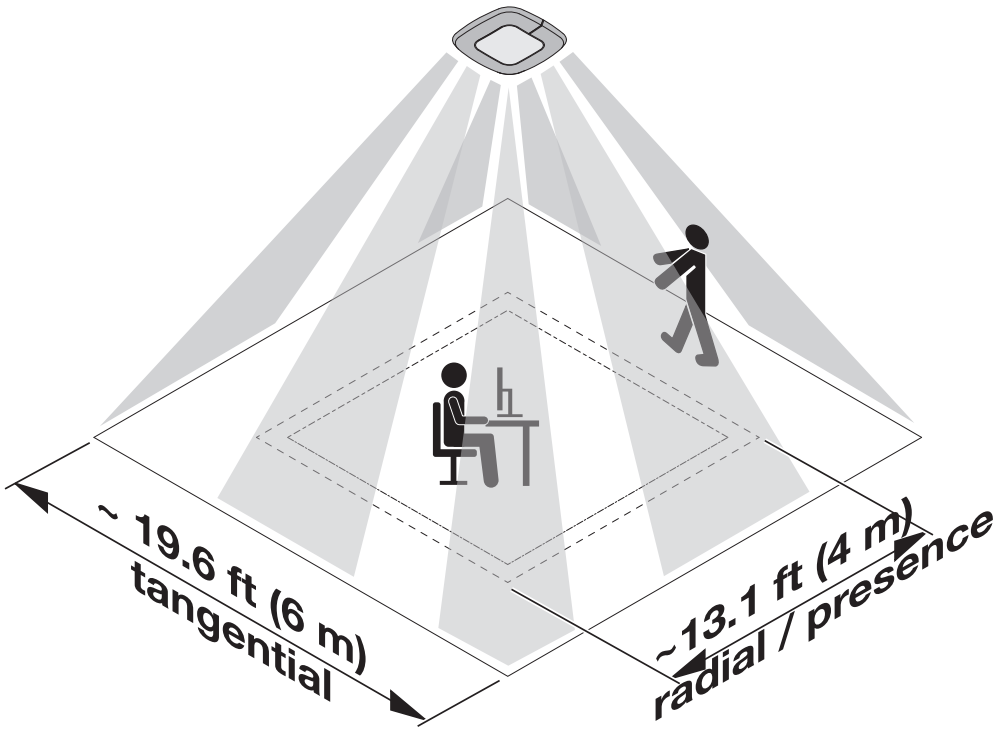
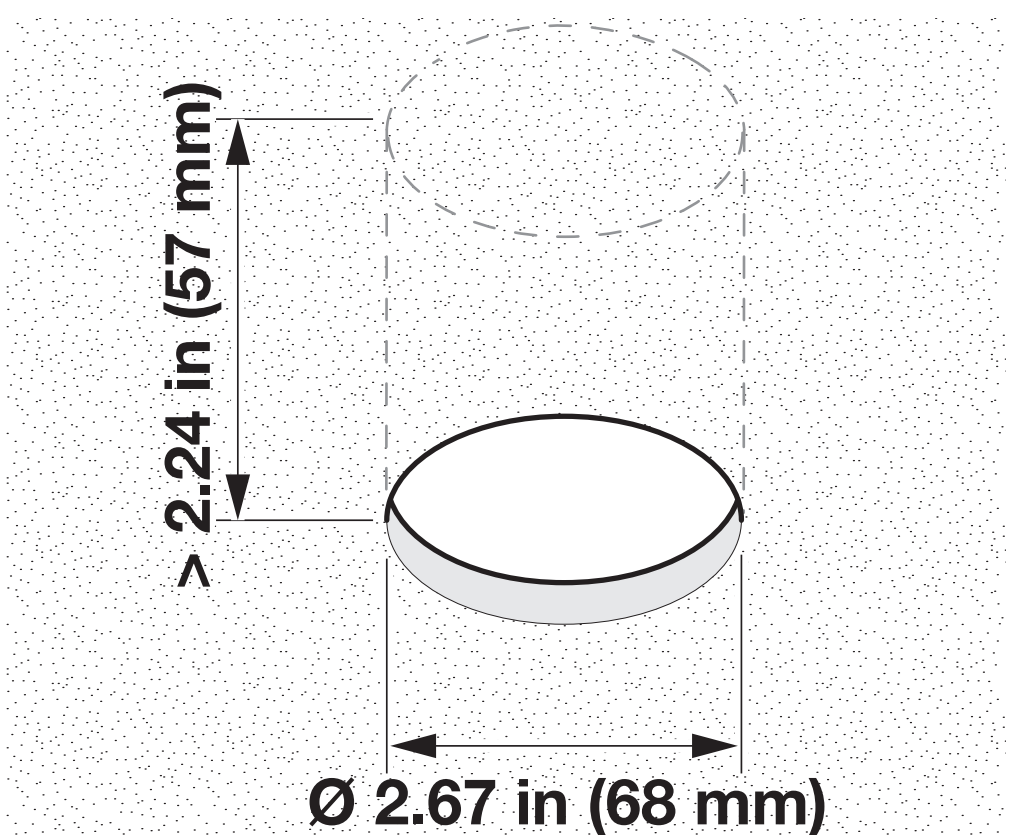
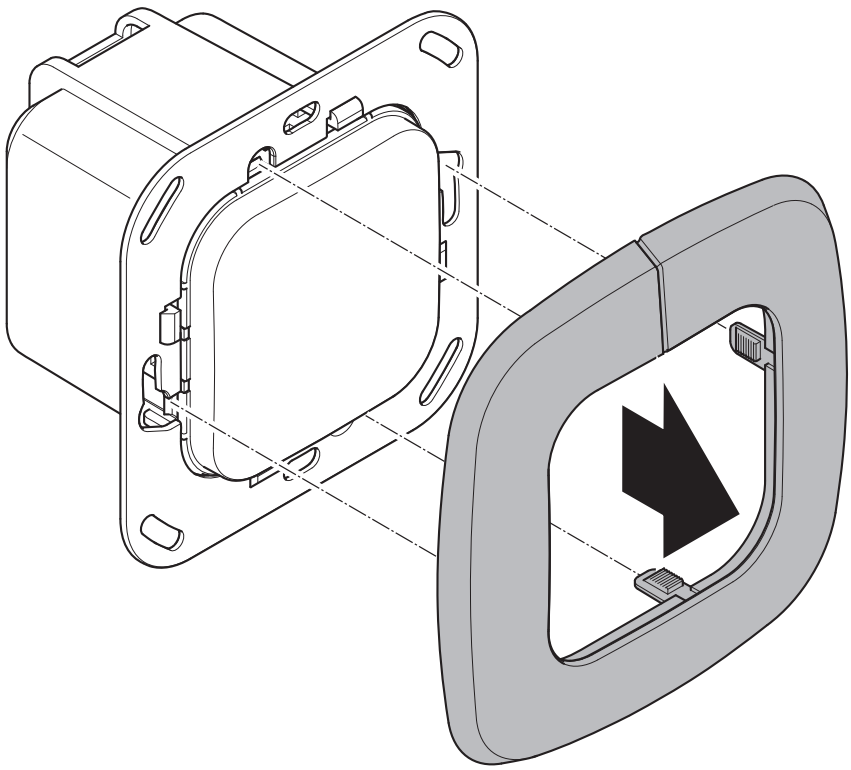

~ 19.6 ft (6 m)
tangential
~13.1 ft (4 m)
radial / presence

5.3


> 2.24 in (57 mm)
Ø 2.67 in (68 mm)

5.4



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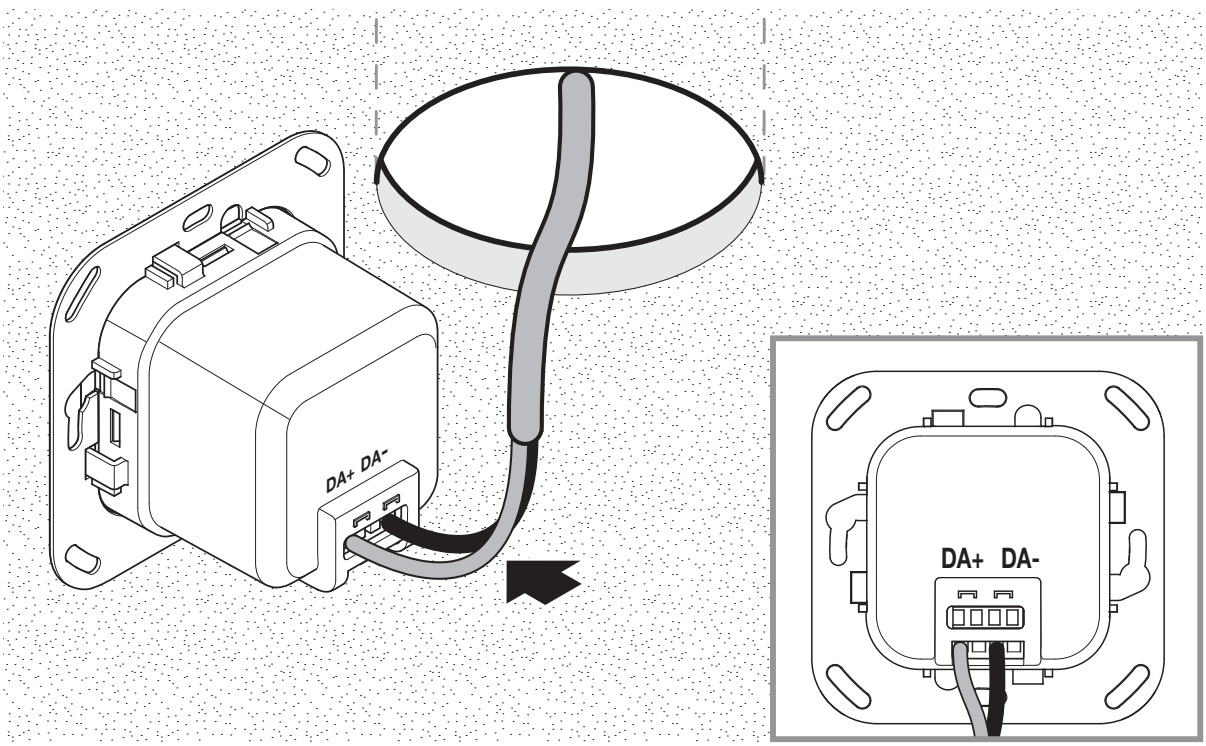

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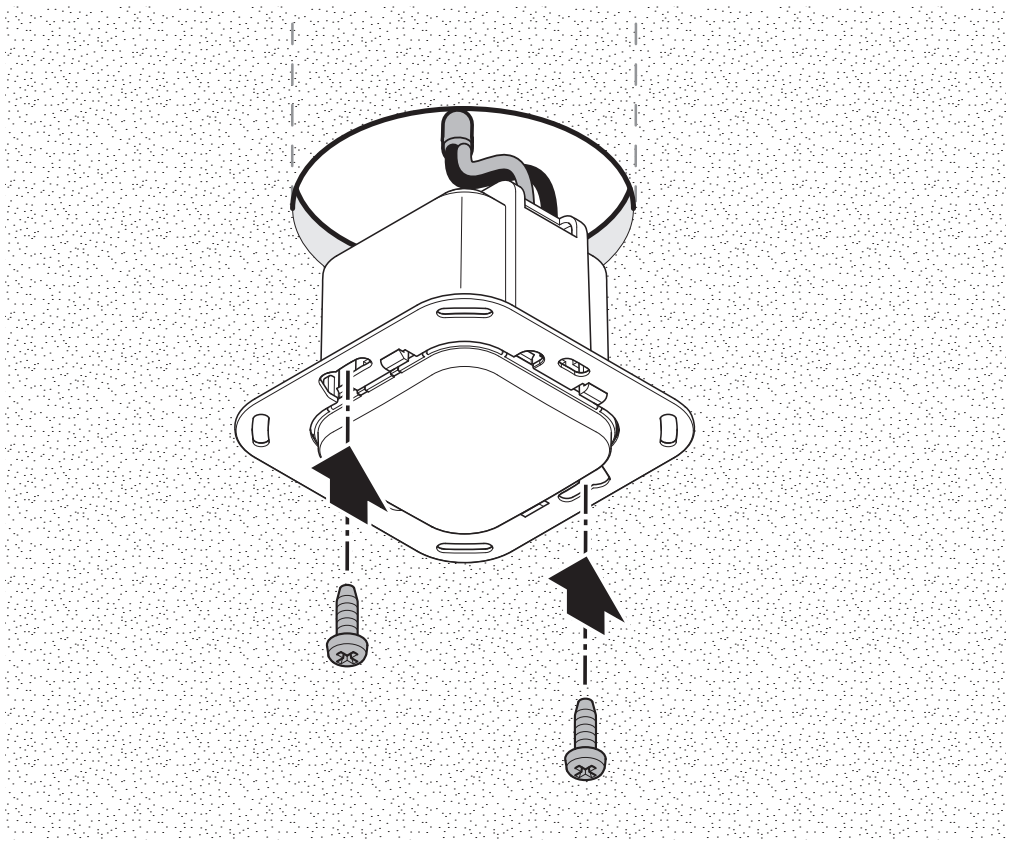

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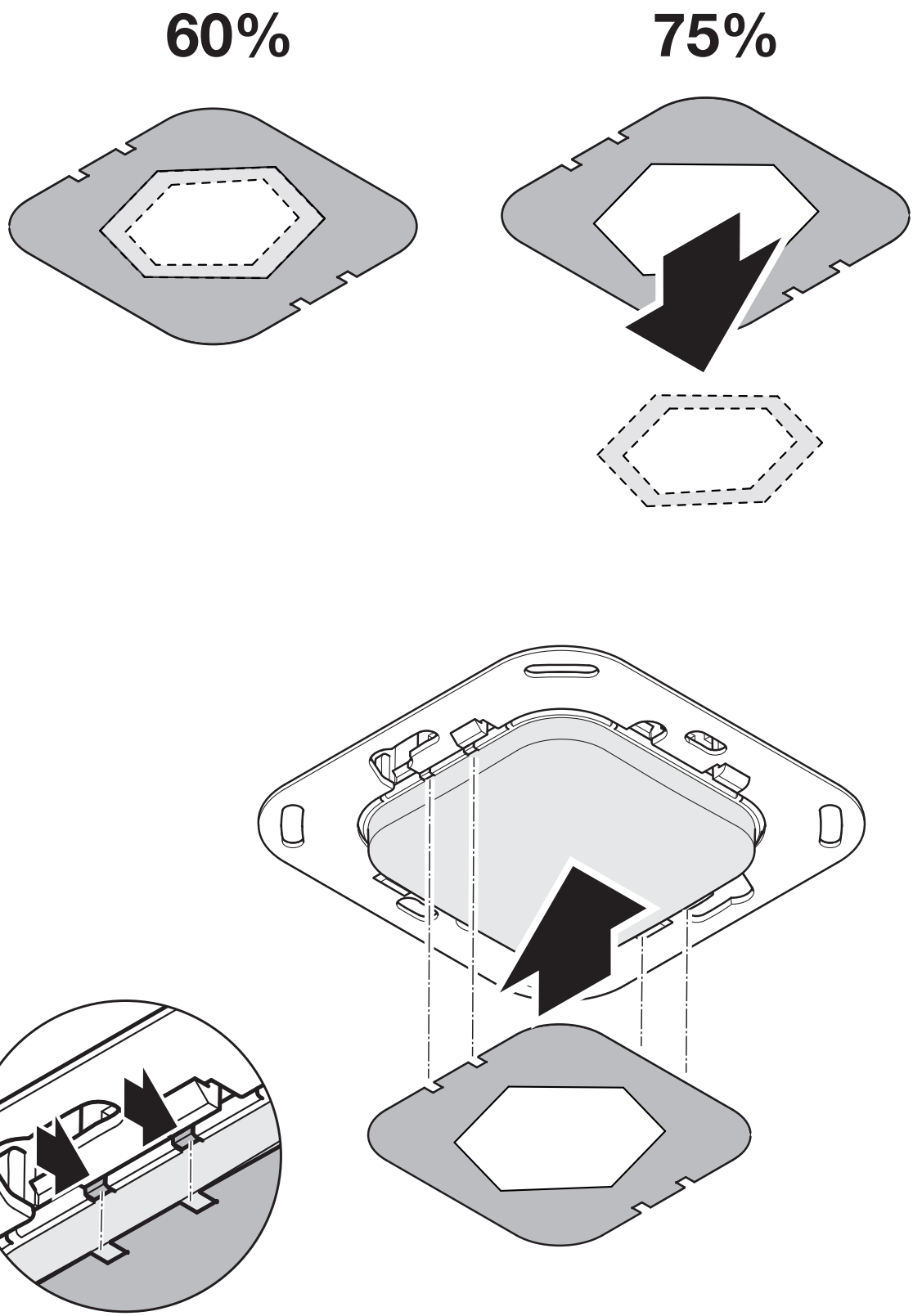

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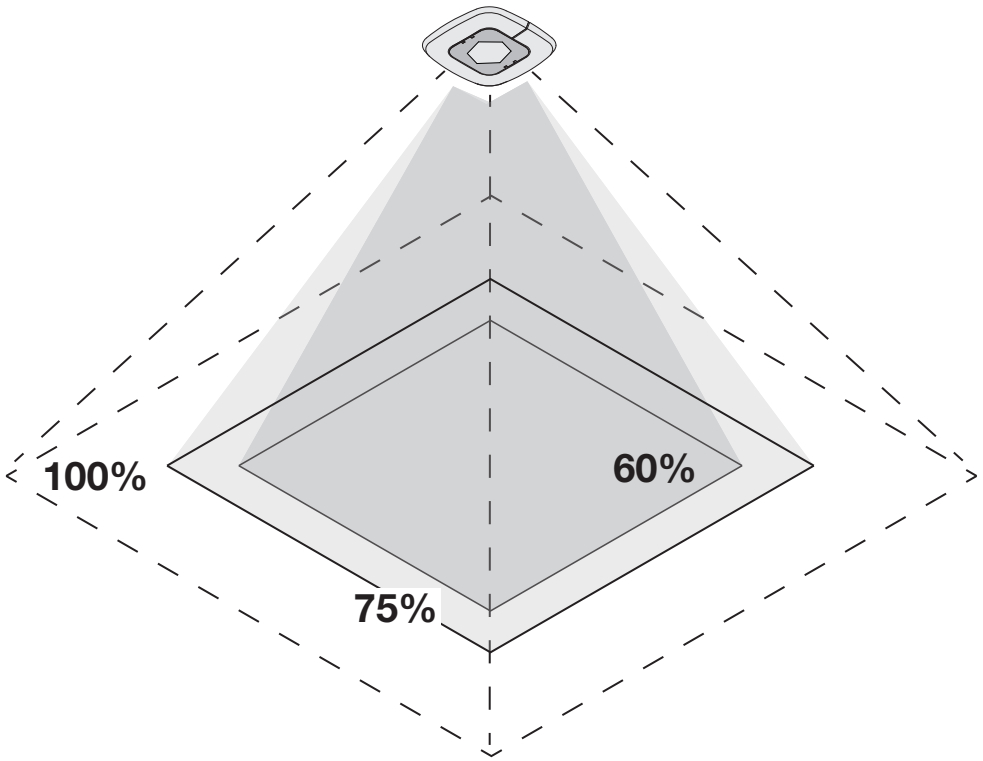

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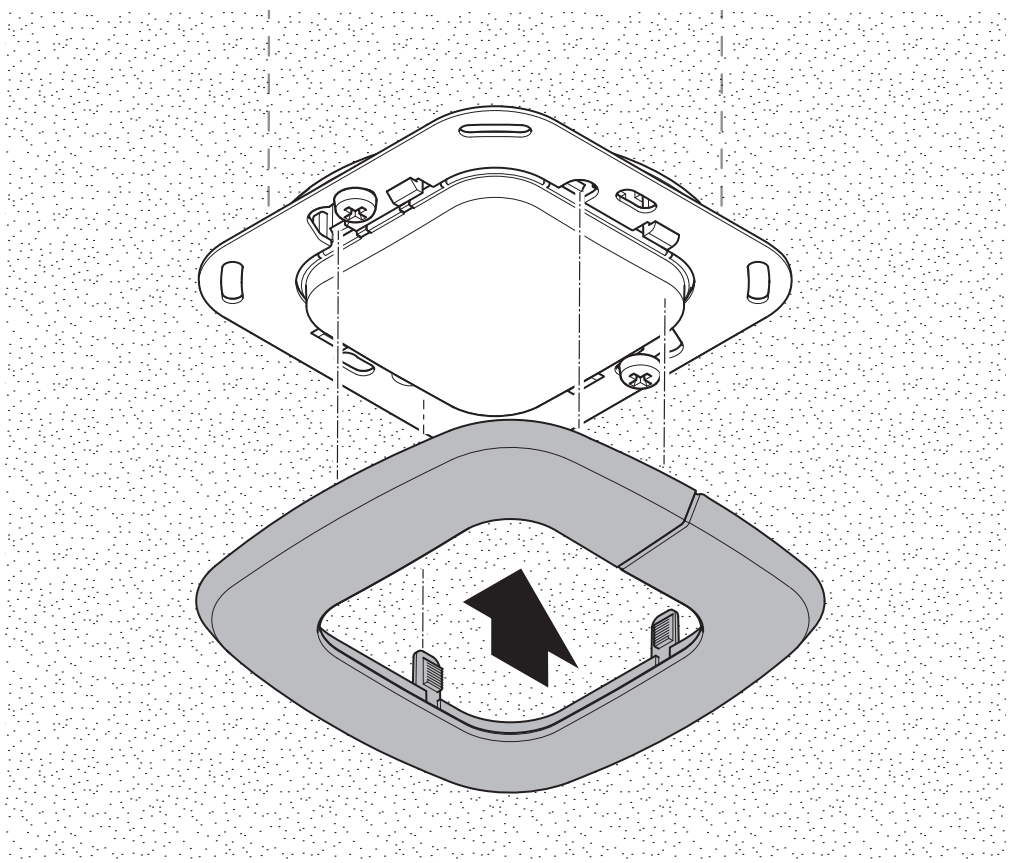


US

1. Installer

This high-quality product has been manufactured, tested and packaged with the assurance of your complete satisfaction. Please read all of the instructions before installation.
This will help you to be familiarized with all the features and options available to you with these devices. This will also assist you to minimize installation time and provide maximum energy savings and trouble-free operation.

2. Safety Warnings

WARNING

- The wiring of this device must be carried out professionally and in accordance with all local and National Electric Codes and electrical operating conditions.
- Class 2 devices are not suitable for Class 1 installations.

3. IR Quattro SLIM XS DCS

Description
IR Quattro SLIM XS, the extra-slim presence detector. Overall height of just 0.23 in (6 mm). High-precision 360° infrared sensor with globally unique retina lens and square detection zone:
– 13.1 x 13.1 ft (4 x 4 m) presence detection zone
– 19.6 x 19.6 ft (6 x 6 m) tangential detection zone

The two wire polarity insensitive Data Line Input communicate motion and light level to the DCS.

Proper use
– Presence detector for indoor ceiling mounting.

Package contents **(Fig. 3.1)**

Product dimensions **(Fig. 3.2)**

Product components **(Fig. 3.3)**

A Sensor module
B Decorative trim panel
C Sensor lens
D Connecting terminal

4. Wiring

– The sensor is a polarity insensitive device. This means it can be connected to the Data Line provided by the DCS in either way.
– The sensor is only intended for concealed, indoor installation in ceilings.

Terminal labelling:
DA+ and DA- are polarity insensitive terminals.

The lead between the DCS and the sensor must be no longer than:
– 328 ft (100 m): 20 AWG
– 492 ft (150 m): 18 AWG
– 656 ft (200 m): 16 AWG
After the sensor is powered on it flashes for 10 s.

Note on parallel connection:
Several sensors can be connected on the same bus. Check technical specifications of the DCS for maximum number of bus participants.

5. Mounting

- Check all components for damage.
- Do not use the product if it is damaged.
- Select an appropriate mounting location, taking the reach and motion detection into consideration. **(Fig. 5.1/5.2)**

Mounting procedure

- Drill a hole in the ceiling of max. Ø 2.67 in (68 mm). **(Fig. 5.3)**
- Remove design ring. **(Fig. 5.4)**
- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.5)**
- Insert the sensor into the mounting hole. **(Fig. 5.6)**
- Attach design ring to the sensor. **(Fig. 6.3)**
- Wait for the system to reboot.
- Make settings.
  ➔ "6. Function / Setting"
- After installing the sensor starts to flash once a second for aprox. 2 minutes. Follow the next steps on the commissioning App of the DCS.

6. Changing the detection zone

Detection zone **(Fig. 6.1/6.2)**
The film shroud provided is used for minimising the detection zone by a maximum of 40%.

7. Function / Setting

The motion detection values and light levels measured by the sensor can be requested from the DCS controller App.

LED function
Red LED:

– During installation and Data Line addressing, LED flashes 1 x per second.
– After initialization is concluded the LED will turn off indicating normal working mode.
– In case of a Data Line bus reset, the sensor LED will blik indicating sensor adressing.

8. Maintenance / care

The product requires no maintenance.
The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

9. Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.

Do not dispose of electrical and electronic equipment as domestic waste.

10. Warranty

STEINEL America warrants its products against defects in material or workmanship for a period of five years. STEINEL will replace or repair the item provided that it has not been altered or subjected to abuse, accident, improper installation or impropesr use. There are no obligations or liabilities on the part of STEINEL for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

5 YEAR
MANUFACTURER'S
WARRANTY

11.Technical specifications

Dimensions (L × W × D)	3.14 x 3.14 x 2.00 in (80 x 80 x 51 mm)
Power supply	4 mA/2 Bus participants, 12 - 22.5 VDC , (class 2)
Sensor technology	Passive infrared (PIR)
Square detection zone (Coverage at 2.8 m/9 ft installation height)	radial / presence 13.1 x 13.1 ft (4 x 4 m) tangential 19.6 x 19.6 ft (6 x 6 m)
Angle of coverage	360°
Light measurement	1-92 fc (10-1000 lux)
Mounting height	8.2-13.1 ft (2.5-4 m)
IP rating	Environment IP20 rated
Temperature range	32°F to +104°F (0°C to +40°C)
UL	UL 2043 Plenum rated
	Made in Romania
	www.steinel.net

12.Troubleshooting

Malfunction	Cause	Remedy
Sensor not detecting motion	■ Sensor is not wired properly to the Data Line of the Controller	■ In the DCS App check if the bus connection is working properly over the LED blinking function available on the sensor settings page
Sensor is wired up properly but still not reacting to motion	■ Additional sensor settings in the DCS App need to be checked and corrected	■ Check complete assignment of the sensor functionalites for the itended lighting zones in the App configuration. Make sure the sensor is assigned to the proper zone and the desired sequence of operation is selected
Sensor sending motion detection signal when it should not	■ There is interference, e.g. fan, air conditioning system or other source of heat, in the detection zone	■ Relocate the sensor
	■ Sensor near Wi-Fi or other wireless communication source	■ Install at least 6 ft away from the wireless communication source

US

STEINEL® PROFESSIONAL

IR Quattro DCS

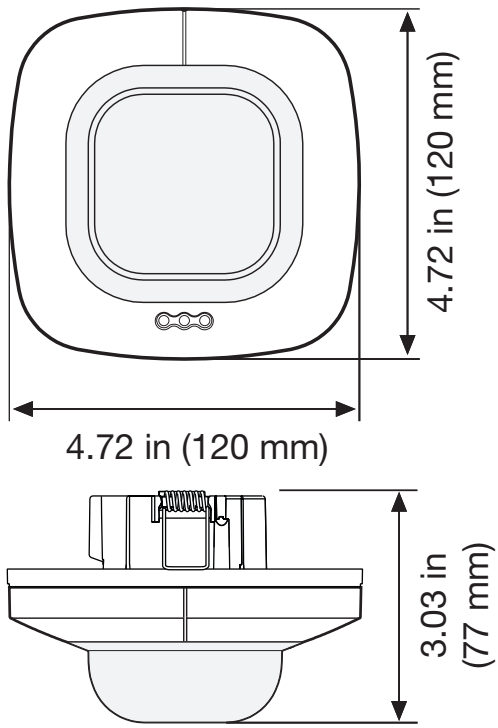
IR Quattro HD DCS

CONTROL PRO SYSTEM

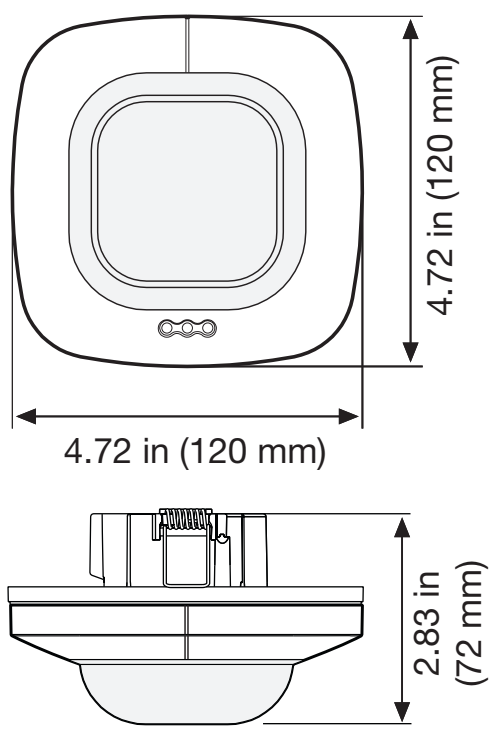
Information

IR Quattro DCS
IR Quattro HD DCS

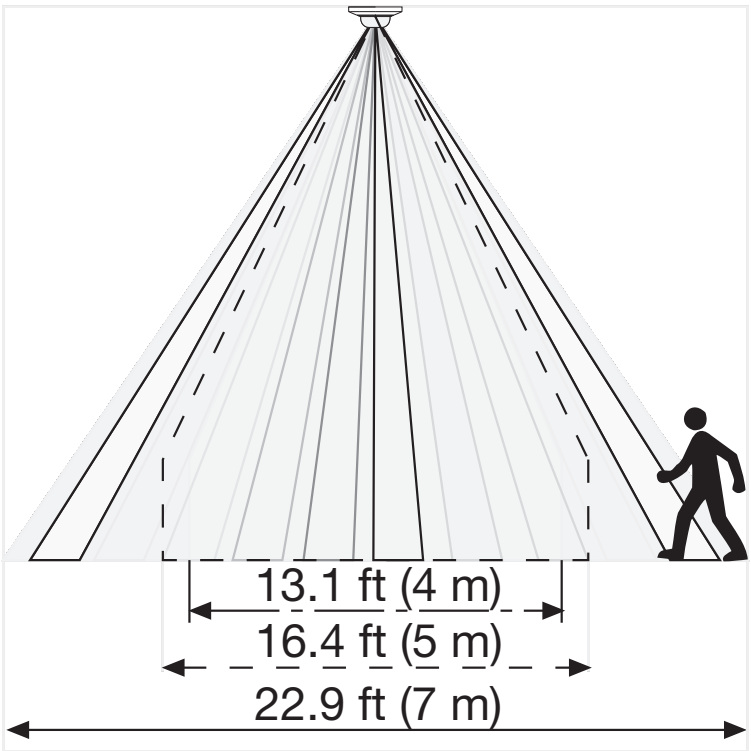
3.1 IR Quattro DCS



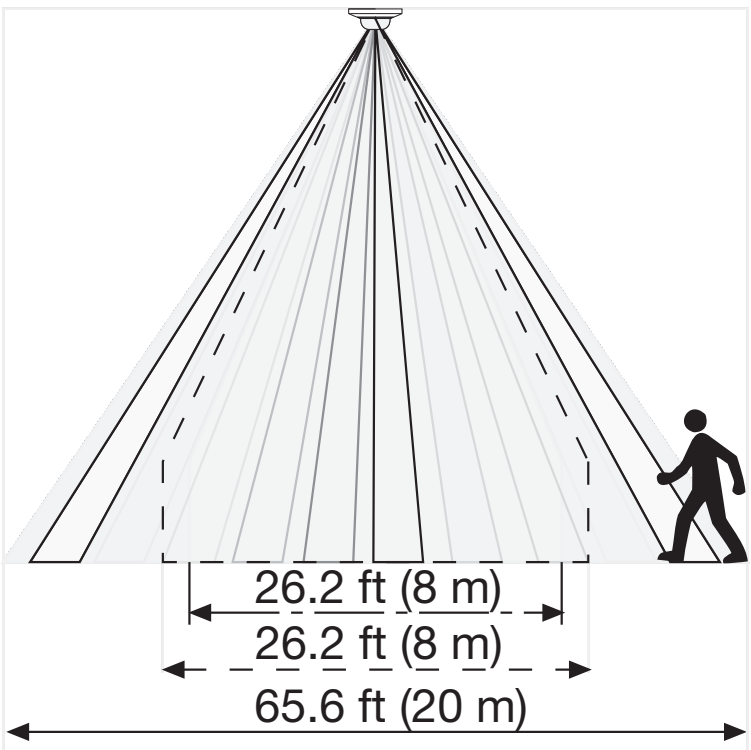
3.2 IR Quattro HD DCS



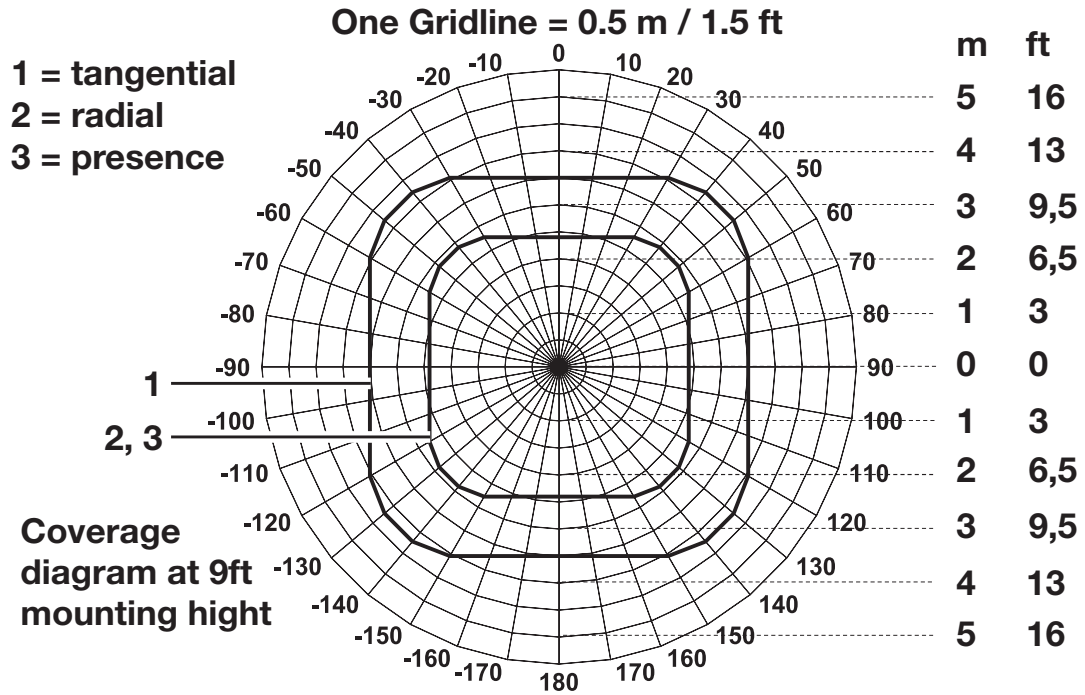
3.3 IR Quattro DCS



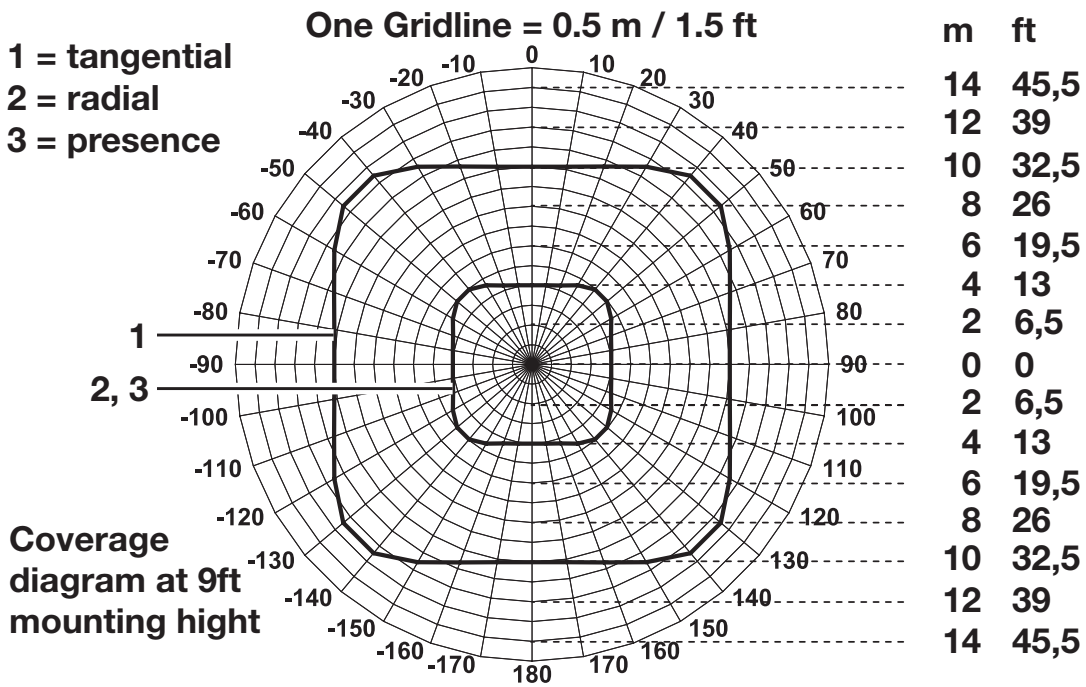
3.4 IR Quattro HD DCS



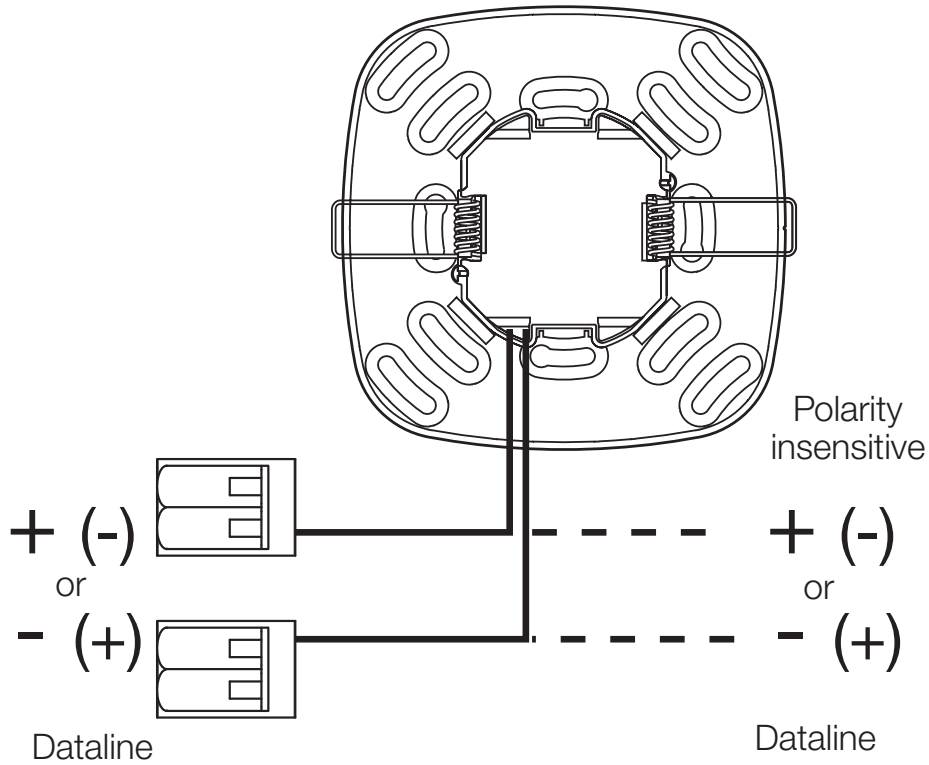
3.5 IR Quattro DCS



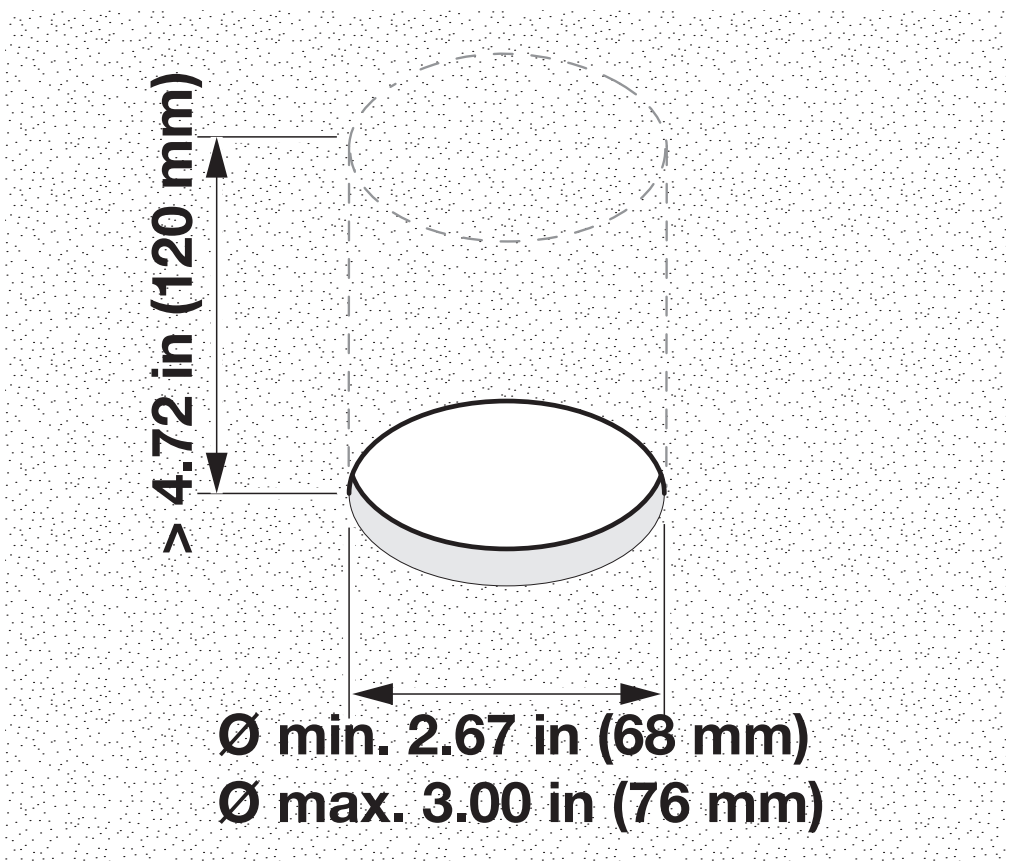
3.6 IR Quattro HD DCS



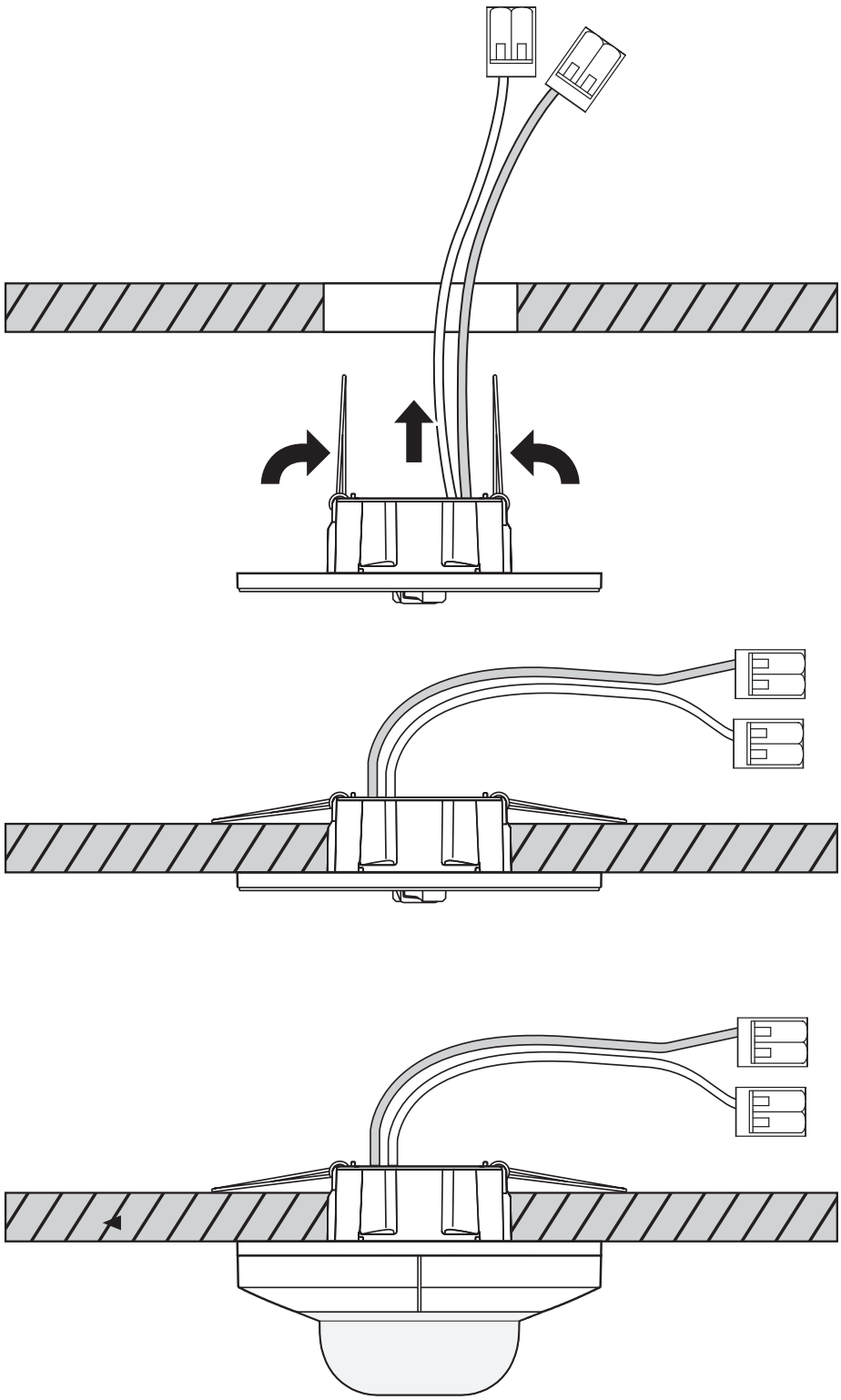
4.1


Polarity
insensitive
+ (-)
or
- (+)
Dataline
+ (-)
or
- (+)
Dataline

5.1


> 4.72 in (120 mm)
Ø min. 2.67 in (68 mm)
Ø max. 3.00 in (76 mm)

5.2



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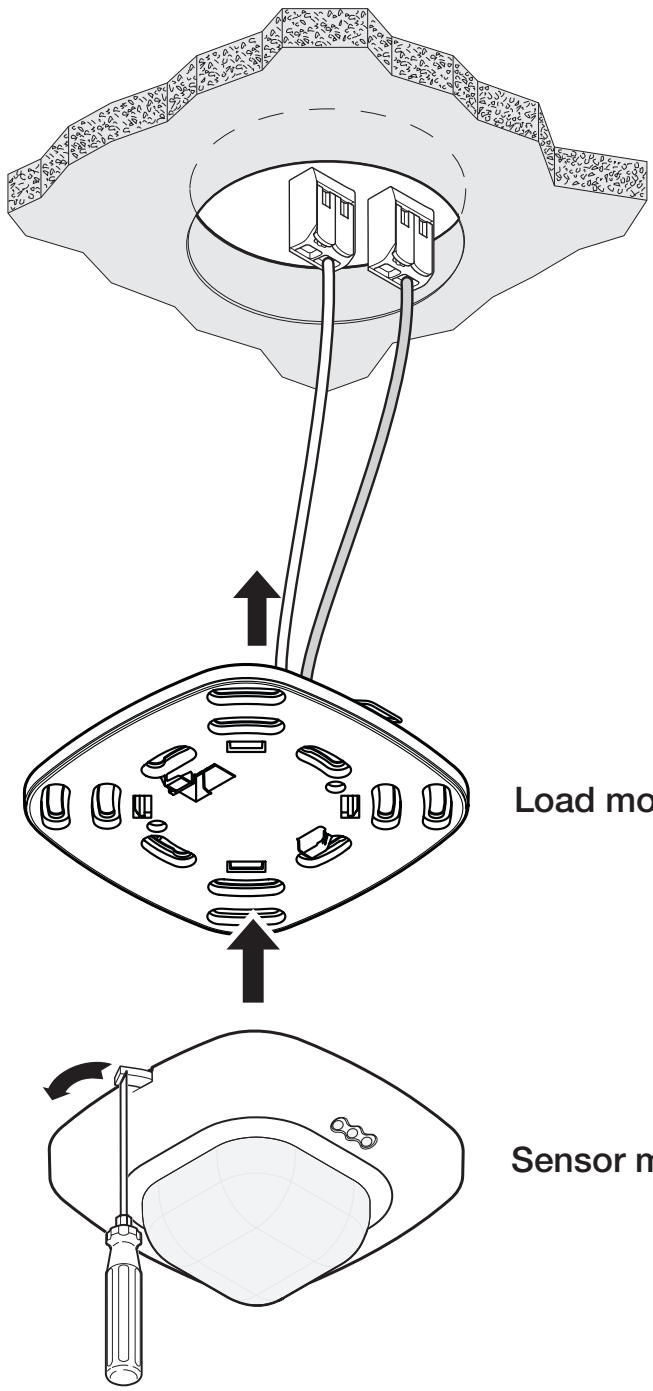

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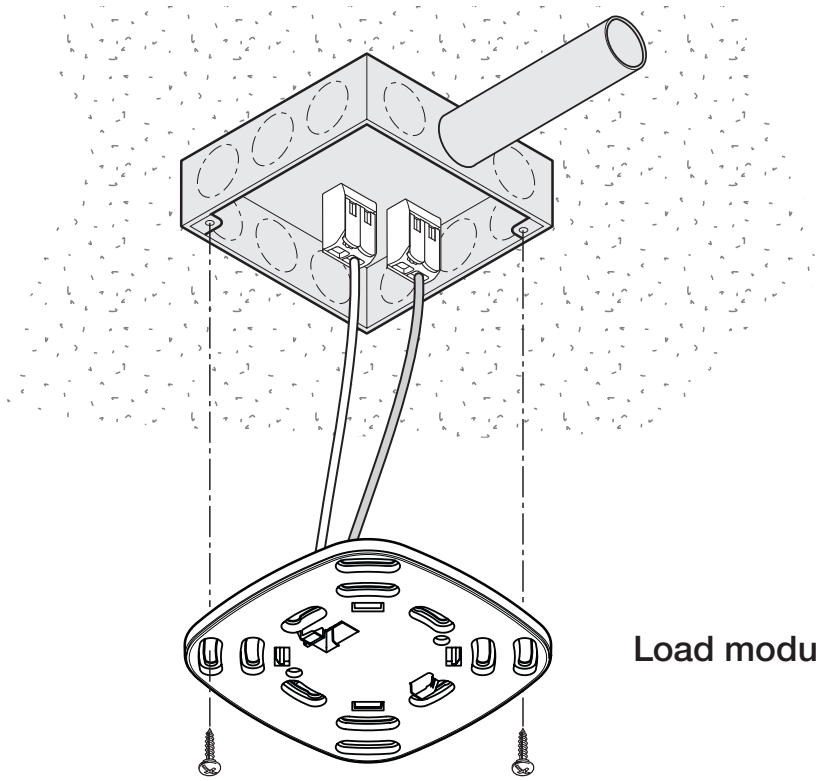
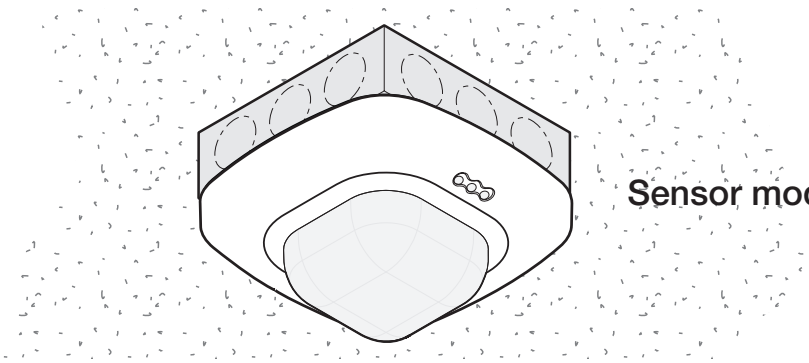


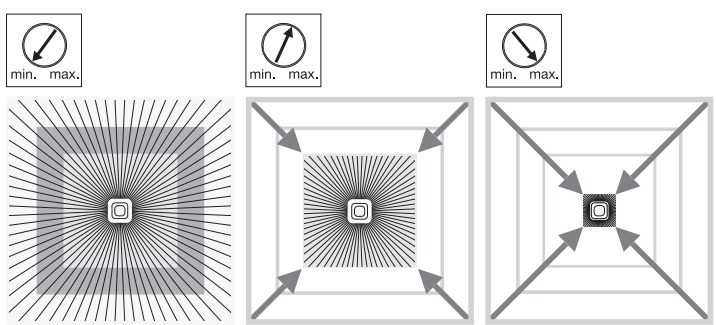
Load module

5.5



Sensor module

6.1



6.2 		IR Quattro			IR Quattro HD		
		Presence	**Radial**	**Tangential**	**Presence**	**Radial**	**Tangential**
2.50 m 8 ft	**1**	2.6 m x 2.6 m 8.5 ft x 8.5 ft	2.6 m x 2.6 m 8.5 ft x 8.5 ft	2.8 m x 2.8 m 9 ft x 9 ft	3.6 m x 3.6 m 11.5 ft x 11.5 ft	3.6 m x 3.6 m 11.5 ft x 11.5 ft	4 m x 4 m 13 ft x 13 ft
	2	2.9 m x 2.9 m 9.5 ft x 9.5 ft	2.9 m x 2.9 m 9.5 ft x 9.5 ft	2.9 m x 2.9 m 9.5 ft x 9.5 ft	4 m x 4 m 13 ft x 13 ft	4 m x 4 m 13 ft x 13 ft	4 m x 4 m 13 ft x 13 ft
	3	3.2 m x 3.2 m 10.5 ft x 10.5 ft	3.2 m x 3.2 m 10.5 ft x 10.5 ft	3.2 m x 3.2 m 10.5 ft x 10.5 ft	4.6 m x 4.6 m 15 ft x 15 ft	4.6 m x 4.6 m 15 ft x 15 ft	5 m x 5 m 16 ft x 16 ft
	4	3.4 m x 3.4 m 11 ft x 11 ft	3.4 m x 3.4 m 11 ft x 11 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	5.2 m x 5.2 m 17 ft x 17 ft	5.2 m x 5.2 m 17 ft x 17 ft	6 m x 6 m 19.5 ft x 19.5 ft
	5	3.6 m x 3.6 m 11.5 ft x 11.5 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	4.7 m x 4.7 m 15 ft x 15 ft	5.8 m x 5.8 m 19 ft x 19 ft	5.8 m x 5.8 m 19 ft x 19 ft	8 m x 8 m 26 ft x 26 ft
	6	4.1 m x 4.1 m 13 ft x 13 ft	4.2 m x 4.2 m 13.5 ft x 13.5 ft	5.6 m x 5.6 m 18 ft x 18 ft	6.8 m x 6.8 m 22 ft x 22 ft	6.8 m x 6.8 m 22 ft x 22 ft	13 m x 13 m 42.5 ft x 42.5 ft
	7	4.7 m x 4.7 m 15 ft x 15 ft	4.7 m x 4.7 m 15 ft x 15 ft	6.6 m x 6.6 m 21.5 ft x 21.5 ft	7.8 m x 7.8 m 25.5 ft x 25.6 ft	7.8 m x 7.8 m 25.5 ft x 25.5 ft	18 m x 18 m 59 ft x 59 ft
2.80 m 9 ft	**1**	2.8 m x 2.8 m 9 ft x 9 ft	2.8 m x 2.8 m 9 ft x 9 ft	2.8 m x 2.8 m 9 ft x 9 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	4 m x 4 m 13 ft x 13 ft
	2	3.1 m x 3.1 m 10 ft x 10 ft	3.1 m x 3.1 m 10 ft x 10 ft	3.1 m x 3.1 m 10 ft x 10 ft	4.4 m x 4.4 m 14 ft x 14 ft	4.4 m x 4.4 m 14 ft x 14 ft	4.5 m x 4.5 m 14.5 ft x 14.5 ft
	3	3.5 m x 3.5 m 11.5 ft x 11.5 ft	3.5 m x 3.5 m 11.5 ft x 11.5 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	5.1 m x 5.1 m 16.5 ft x 16.5 ft	5.1 m x 5.1 m 16.5 ft x 16.5 ft	5.5 m x 5.5 m 18 ft x 18 ft
	4	3.9 m x 3.9 m 12.5 ft x 12.5 ft	3.9 m x 3.9 m 12.5 ft x 12.5 ft	4.5 m x 4.5 m 14.5 ft x 14.5 ft	5.5 m x 5.5 m 18 ft x 18 ft	5.5 m x 5.5 m 18 ft x 18 ft	6.5 m x 6.5 m 21 ft x 21 ft
	5	4.2 m x 4.2 m 13.5 ft x 13.5 ft	4.2 m x 4.2 m 13.5 ft x 13.5 ft	5.4 m x 5.4 m 17.5 ft x 17.5 ft	5.9 m x 5.9 m 19 ft x 19 ft	5.9 m x 5.9 m 19 ft x 19 ft	8.5 m x 8.5 m 27.5 ft x 27.5 ft
	6	4.4 m x 4.4 m 14 ft x 14 ft	4.4 m x 4.4 m 14 ft x 14 ft	6.1 m x 6.1 m 20 ft x 20 ft	6.9 m x 6.9 m 22.5 ft x 22.5 ft	6.9 m x 6.9 m 22.5 ft x 22.5 ft	17 m x 17 m 55.5 ft x 55.5 ft
	7	4.7 m x 4.7 m 15 ft x 15 ft	4.7 m x 4.7 m 15 ft x 15 ft	7.1 m x 7.1 m 23 ft x 23 ft	7.9 m x 7.9 m 25.5 ft x 25.5 ft	7.9 m x 7.9 m 25.5 ft x 25.5 ft	20 m x 20 m 65.5 ft x 65.5 ft
3.00 m 10 ft	**1**	2.8 m x 2.8 m 9 ft x 9 ft	2.8 m x 2.8 m 9 ft x 9 ft	2.8 m x 2.8 m 9 ft x 9 ft	4 m x 4 m 13 ft x 13 ft	4 m x 4 m 13 ft x 13 ft	4 m x 4 m 13 ft x 13 ft
	2	3.2 m x 3.2 m 10.5 ft x 10.5 ft	3.3 m x 3.3 m 10.5 ft x 10.5 ft	3.3 m x 3.3 m 10.5 ft x 10.5 ft	4.8 m x 4.8 m 15.5 ft x 15.5 ft	4.8 m x 4.8 m 15.5 ft x 15.5 ft	5 m x 5 m 16 ft x 16 ft
	3	3.6 m x 3.6 m 11.5 ft x 11.5 ft	3.8 m x 3.8 m 12.5 ft x 12.5 ft	4.7 m x 4.7 m 15 ft x 15 ft	5.6 m x 5.6 m 18 ft x 18 ft	5.6 m x 5.6 m 18 ft x 18 ft	6 m x 6 m 19.5 ft x 19.5 ft
	4	3.7 m x 3.7 m 12 ft x 12 ft	4.2 m x 4.2 m 13.5 ft x 13.5 ft	5.4 m x 5.4 m 17.5 ft x 17.5 ft	5.8 m x 5.8 m 19 ft x 19 ft	5.8 m x 5.8 m 19 ft x 19 ft	7 m x 7 m 23 ft x 23 ft
	5	3.8 m x 3.8 m 12.5 ft x 12.5 ft	4.7 m x 4.7 m 15 ft x 15 ft	6.1 m x 6.1 m 20 ft x 20 ft	6 m x 6 m 19.5 ft x 19.5 ft	6 m x 6 m 19.5 ft x 19.5 ft	9 m x 9 m 29.5 ft x 29.5 ft
	6	4.2 m x 4.2 m 13.5 ft x 13.5 ft	4.7 m x 4.7 m 15 ft x 15 ft	6.6 m x 6.6 m 21.5 ft x 21.5 ft	7 m x 7 m 23 ft x 23 ft	8 m x 8 m 26 ft x 26 ft	20 m x 20 m 65.5 ft x 65.5 ft
	7	4.2 m x 4.2 m 13.5 ft x 13.5 ft	4.8 m x 4.8 m 15.5 ft x 15.5 ft	7 m x 7 m 23 ft x 23 ft	8 m x 8 m 26 ft x 26 ft	8 m x 8 m 26 ft x 26 ft	22 m x 22 m 72 ft x 72 ft

3.50 m 12 ft	**1**	2.8 m x 2.8 m 9 ft x 9 ft	4.7 m x 4.7 m 15 ft x 15 ft	4.7 m x 4.7 m 15 ft x 15 ft	4.8 m x 4.8 m 15.5 ft x 15.5 ft	5 m x 5 m 16 ft x 16 ft	6 m x 6 m 19.5 ft x 19.5 ft
	2	3.2 m x 3.2 m 10.5 ft x 10.5 ft	5.2 m x 5.2 m 17 ft x 17 ft	5.6 m x 5.6 m 18 ft x 18 ft	5 m x 5 m 16 ft x 16 ft	5.5 m x 5.5 m 18 ft x 18 ft	6 m x 6 m 19.5 ft x 19.5 ft
	3	3.6 m x 3.6 m 11.5 ft x 11.5 ft	5.6 m x 5.6 m 18 ft x 18 ft	7.5 m x 7.5 m 24.5 ft x 24.5 ft	5.4 m x 5.4 m 17.5 ft x 17.5 ft	6 m x 6 m 19.5 ft x 19.5 ft	6 m x 6 m 19.5 ft x 19.5 ft
	4	3.7 m x 3.7 m 12 ft x 12 ft	6.6 m x 6.6 m 21.5 ft x 21.5 ft	9.1 m x 9.1 m 29.5 ft x 29.5 ft	5.8 m x 5.8 m 19 ft x 19 ft	7 m x 7 m 23 ft x 23 ft	9.5 m x 9.5 m 31 ft x 31 ft
	5	3.8 m x 3.8 m 12.5 ft x 12.5 ft	7.1 m x 7.1 m 23 ft x 23 ft	9.9 m x 9.9 m 32.5 ft x 32.5 ft	6.2 m x 6.2 m 20 ft x 20 ft	8 m x 8 m 26 ft x 26 ft	13 m x 13 m 42.5 ft x 42.5 ft
	6	4.2 m x 4.2 m 13.5 ft x 13.5 ft	7.5 m x 7.5 m 24.5 ft x 24.5 ft	11 m x 11 m 36 ft x 36 ft	7.2 m x 7.2 m 23.5 ft x 23.5 ft	9.5 m x 9.5 m 31 ft x 31 ft	20.5m x 20.5 m 67 ft x 67 ft
	7	4.2 m x 4.2 m 13.5 ft x 13.5 ft	8.6 m x 8.6 m 28 ft x 28 ft	12 m x 12 m 39 ft x 39 ft	8.2 m x 8.2 m 26.5 ft x 26.5 ft	11 m x 11 m 36 ft x 36 ft	28 m x 28 m 91.5 ft x 91.5 ft
4.00 m 13 ft	**1**	—	3.5 m x 3.5 m 12.5 ft x 12.5 ft	3.5 m x 3.5 m 12.5 ft x 12.5 ft	—	6 m x 6 m 19.5 ft x 19.5 ft	7 m x 7 m 23 ft x 23 ft
	2	—	3.8 m x 3.8 m 12.5 ft x 12.5 ft	4.7 m x 4.7 m 15 ft x 15 ft	—	6 m x 6 m 19.5 ft x 19.5 ft	7.5 m x 7.5 m 24.5 ft x 24.5 ft
	3	—	3.8 m x 3.8 m 12.5 ft x 12.5 ft	5.6 m x 5.6 m 18 ft x 18 ft	—	6 m x 6 m 19.5 ft x 19.5 ft	8 m x 8 m 26 ft x 26 ft
	4	—	4.7 m x 4.7 m 15 ft x 15 ft	7.5 m x 7.5 m 24.5 ft x 24.5 ft	—	7 m x 7 m 23 ft x 23 ft	12 m x 12 m 39 ft x 39 ft
	5	—	4.7 m x 4.7 m 15 ft x 15 ft	7.5 m x 7.5 m 24.5 ft x 24.5 ft	—	8 m x 8 m 26 ft x 26 ft	15 m x 15 m 49 ft x 49 ft
	6	—	5.6 m x 5.6 m 18 ft x 18 ft	8.5 m x 8.5 m 27.5 ft x 27.5 ft	—	8 m x 8 m 26 ft x 26 ft	20 m x 20 m 65.5 ft x 65.5 ft
	7	—	7.5 m x 7.5 m 24.5 ft x 24.5 ft	10 m x 10 m 32.5 ft x 32.5 ft	—	8.4 m x 8.4 m 27.5 ft x 27.5 ft	24 m x 24 m 78.5 ft x 78.5 ft
5.00 m 16 ft	**1**	—	—	—	—	6 m x 6 m 19.5 ft x 19.5 ft	8 m x 8 m 26 ft x 26 ft
	2	—	—	—	—	6.3 m x 6.3 m 20.5 ft x 20.5 ft	11 m x 11 m 36 ft x 36 ft
	3	—	—	—	—	6.7 m x 6.7 m 22 ft x 22 ft	14 m x 14 m 45.5 ft x 45.5 ft
	4	—	—	—	—	7 m x 7 m 23 ft x 23 ft	17 m x 17 m 55.5 ft x 55.5 ft
	5	—	—	—	—	7.4 m x 7.4 m 24 ft x 24 ft	20 m x 20 m 65.5 ft x 65.5 ft
	6	—	—	—	—	7.7 m x 7.7 m 25 ft x 25 ft	24 m x 24 m 78.5 ft x 78.5 ft
	7	—	—	—	—	8.1 m x 8.1 m 26.5 ft x 26.5 ft	27 m x 27 m 88.5 ft x 88.5 ft

6.00 m 20 ft	**1**	–	–	–	–	7 m x 7 m 23 ft x 23 ft	9 m x 9 m 29.5 ft x 29.5 ft
	2	–	–	–	–	7.1 m x 7.1 m 23 ft x 23 ft	12 m x 12 m 39 ft x 39 ft
	3	–	–	–	–	7.3 m x 7.3 m 23.5 ft x 23.5 ft	16 m x 16 m 52.5 ft x 52.5 ft
	4	–	–	–	–	7.4 m x 7.4 m 24 ft x 24 ft	19 m x 19 m 62 ft x 62 ft
	5	–	–	–	–	7.5 m x 7.5 m 24.5 ft x 24.5 ft	23 m x 23 m 75 ft x 75 ft
	6	–	–	–	–	7.7 m x 7.7 m 25 ft x 25 ft	26 m x 26 m 85 ft x 85 ft
	7	–	–	–	–	7.8 m x 7.8 m 25.5 ft x 25.5 ft	30 m x 30 m 98 ft x 98 ft
8.00 m 26 ft	**1**	–	–	–	–	7.4 m x 7.4 m 24 ft x 24 ft	11 m x 11 m 36 ft x 36 ft
	2	–	–	–	–	7.5 m x 7.5 m 24.5 ft x 24.5 ft	15 m x 15 m 49 ft x 49 ft
	3	–	–	–	–	7.7 m x 7.7 m 25 ft x 25 ft	19 m x 19 m 62 ft x 62 ft
	4	–	–	–	–	7.8 m x 7.8 m 25.5 ft x 25.5 ft	24 m x 24 m 78.5 ft x 78.5 ft
	5	–	–	–	–	7.9 m x 7.9 m 25.5 ft x 25.5 ft	28 m x 28 m 91.5 ft x 91.5 ft
	6	–	–	–	–	8.1 m x 8.1 m 26.5 ft x 26.5 ft	32 m x 32 m 105 ft x 105 ft
	7	–	–	–	–	8.2 m x 8.2 m 26.5 ft x 26.5 ft	36 m x 36 m 118 ft x 118 ft

US

1. Installer

This high-quality product has been manufactured, tested and packaged with the assurance of your complete satisfaction. Please read all of the instructions before installation.
This will help you to be familiarized with all the features and options available to you with these devices. This will also assist you to minimize installation time and provide maximum energy savings and trouble-free operation.

2. Safety Warnings

WARNING

- The wiring of this device must be carried out professionally and in accordance with all local and National Electric Codes and electrical operating conditions.
- Class 2 devices are not suitable for Class 1 installations.

3. IR Quattro DCS / IR Quattro HD DCS

Description
Lighting is controlled in relation to both the presence of motion and ambient light levels.

Proper use:
– Presence detector for indoor mounting for connecting to the bus powered data line of the room controller.

Product dimensions for IR Quattro DCS **(Fig. 3.1)**
Product dimensions for IR Quattro HD DCS **(Fig. 3.2)**

Detection zone **(Fig. 3.3/3.4/3.5/3.6)**

Coverage Diagramm at 9 ft mounting high **(Fig. 6.2)**

Reliable presence detection largely depends on the number and arrangement of the lens segments. The IR Quattro with its square detection pattern of 49 m^2 / 160.76 sq. ft. divided up into 13 levels and 1760 switching zones senses the smallest of movements. With a square detection pattern covering an area of 64 m^2 / 209.97 sq. ft., the IR Quattro HD has 4800 switching zones.

4. Wiring

– The sensor is a polarity insensitive device. This means it can be connected to the Data Line provided by the DCS in either way.
– The sensor is intended for concealed, indoor installation in ceilings and sofit.

Wire labelling:
Red and blue (polarity insensitive).

The lead between the DCS and the sensor must be no longer than:
– 328 ft (100 m): 20 AWG
– 492 ft (150 m): 18 AWG
– 656 ft (200 m): 16 AWG
– 984 ft (300 m): 14 AWG
After the sensor is powered on it flashes for 10 s.

Note on parallel connection:
Several sensors can be connected on the same bus. Check technical specifications of the DCS for maximum number of bus participants.

5. Mounting

- Check all components for damage.
- Do not use the product if it is damaged.
- Select an appropriate mounting location, taking the reach and motion detection into consideration. **(Fig. 3.3/3.4/3.5/3.6)**

Mounting procedure 1

- Drill a hole in the ceiling of min. Ø 2.67 in (68 mm)/max. Ø 3.00 in (76 mm). **(Fig. 5.1)**
- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.2)**
- Mount directly to ceiling with quick mount spring tabs. **(Fig. 5.2)**
- Insert the sensor into the load module. **(Fig. 5.2)**
- Wait for the system to reboot.
- Make settings.
  ➔ "6. Function / Setting"
- After installing the sensor starts to flash once a second for aprox. 2 minutes. Follow the next steps on the commissioning App of the DCS.

Mounting procedure 2

- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.3)**
- Mount the power module to a 4" Square box, 4" Octagon box or Round 3.0 Mud-Ring. **(Fig. 5.2/5.3/5.4)**
- Mount the sensor module to the power module by carefuly opening the locking tabs on the side of the sensor module. **(Fig. 5.3/5.4)**
- Wait for the system to reboot.
- Make settings.
  ➔ "6. Function and Settings"

After installing,the sensor starts to flash once a second for aprox. 2 minutes. Follow the next steps on the commissioning App of the DCS

6. Function / Setting

The motion detection values and light levels measured by the sensor can be requested from the DCS controller App.

LED function

Blue LED:

– During installation and Data Line addressing, LED flashes 1 x per second.
– After initialization is concluded the LED will turn off indicating normal working mode.
– In case of a Data Line bus reset, the sensor LED will blik indicating sensor adressing.

Adjusting detection reach
Mechanical scalability of the coverage pattern **(Fig. 6.1/6.2)**
The unique mechanically scalable detection pattern brings a new dimension to the design of precise coverage zones. The square detection pattern and capability of interconnecting multiple sensors provide the basis for creating optimum zonal coverage quickly and easily.

Note:
– 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.

7. Maintenance / care

The product requires no maintenance.

The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

8. Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.

Do not dispose of electrical and electronic equipment as domestic waste.

9. Warranty

STEINEL America warrants its products against defects in material or workmanship for a period of five years. STEINEL will replace or repair the item provided that it has not been altered or subjected to abuse, accident, improper installation or improper use. There are no obligations or liabilities on the part of STEINEL for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

5 YEAR MANUFACTURER'S WARRANTY

10.Technical specifications

Dimensions (L × W × D)	**IR Quattro DCS** 4.72 x 4.72 x 3.03 in (120 x 120 x 77 mm) **IR Quattro HD DCS** 4.72 x 4.72 x 2.83 in (120 x 120 x 72 mm)
Power supply	**IR Quattro DCS** 8 mA/4 users, 12-22.5 VDC, (class 2) **IR Quattro HD DCS** 10 mA/5 users, 12-22.5 VDC, (class 2)
Sensor technology	**IR Quattro DCS** Passive infrared (PIR) Single pyro, 13 detection levels, 1760 switching zones **IR Quattro HD DCS** Passive infrared (PIR) Four digital pyro's, 13 detection levels, 4800 switching zones
Square detection zone (Coverage at 2.8 m/9 ft installation height)	**IR Quattro DCS** presence max. of 15 x 15 ft (225 sq.ft)/4.7 x 4.7 m (22 sq.m.) radially max. of 15 x 15 ft (225 sq.ft)/4.7 x 4.7 m (22 sq.m.) tangentially max.of 23 x 23 ft (529 sq.ft)/7.1 x 7.1 m (50 sq.m.) **IR Quattro HD DCS** presence max. of 25.5 x 25.5 ft (650.25 sq.ft)/7.9 x 7.9 m (62 sq.m.) radially max. of 25.5 x 25.5 ft (650.25 sq.ft)/7.9 x 7.9 m (62 sq.m.) tangentially max.of 65.5 x 65.5 ft (4290.25 sq.ft)/20 x 20 m (400 sq.m.)
Light measurement	1 - 92 fc (10 - 1000 lx)
Mounting height	**IR Quattro DCS** 2.5-8 m/8-26 ft **IR Quattro HD DCS** 2.5-10 m/8-32 ft
IP rating	IP 20-For indoor use only
Temperature range	32°F to +104°F (0°C to +40°C)
UL	UL 2043 Plenum rated
	Made in Romania
	www.steinel.net

11.Troubleshooting

Malfunction	Cause	Remedy
Sensor not detecting motion	■ Sensor is not wired properly to the Data Line of the Controller	■ In the DCS App check if the bus connection is working properly over the LED blinking function available on the sensor settings page
Sensor is wired up properly but still not reacting to motion	■ Additional sensor settings in the DCS App need to be checked and corrected	■ Check complete assignment of the sensor functionalites for the itended lighting zones in the App configuration. Make sure the sensor is assigned to the proper zone and the desired sequence of operation is selected
Sensor sending motion detection signal when it should not	■ There is interference, e.g. fan, air conditioning system or other source of heat, in the detection zone	■ Relocate the sensor
	■ Sensor near Wi-Fi or other wireless communication source	■ Install at least 6 ft away from the wireless communication source

US

STEINEL® PROFESSIONAL

US Quattro DCS

US Oneway DCS

DT Quattro DCS

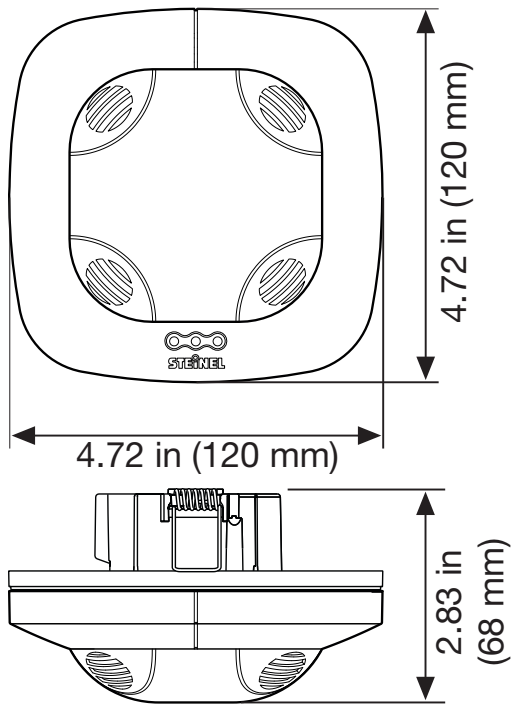
US Hallway DCS

CONTROL PRO SYSTEM

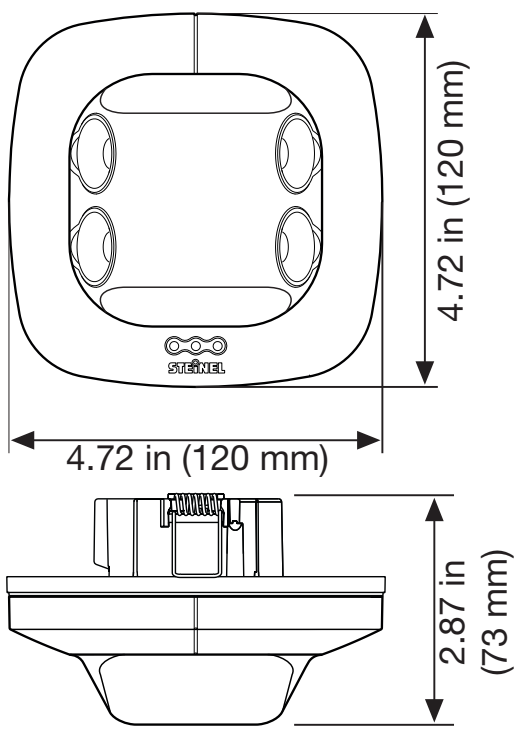
Information

US Quattro DCS
US Oneway DCS
DT Quattro DCS
US Hallway DCS

3.1 US Quattro DCS/DT Quattro DCS



3.2 US Oneway DCS/US Hallway DCS

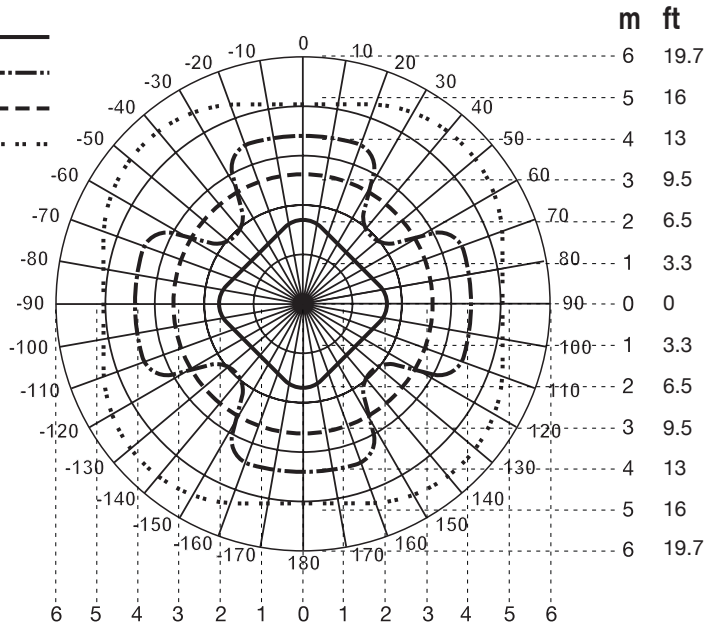


3.3 US Quattro DCS/DT Quattro DCS

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

Coverage diagram
at 9ft mounting
hight

One grid line = 1m / 3.3 ft

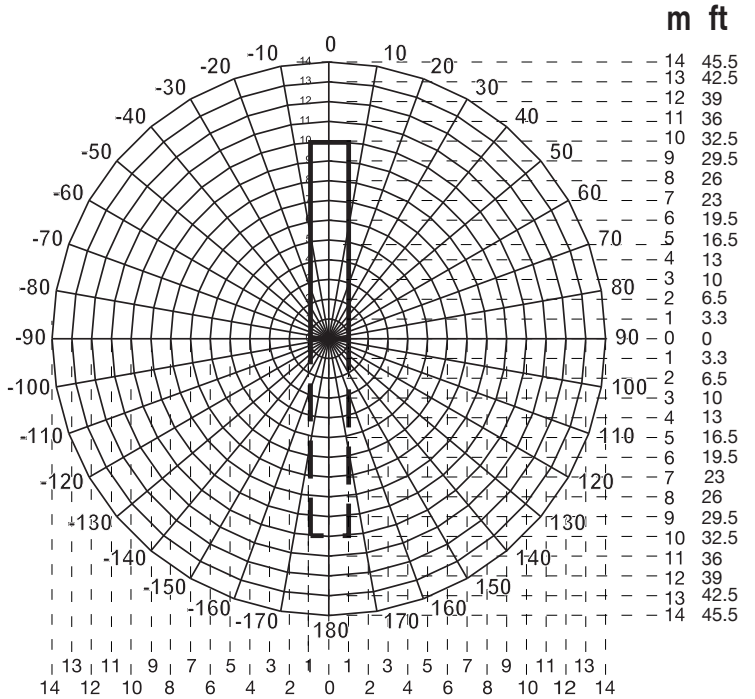


3.4 US Oneway DCS/US Hallway DCS

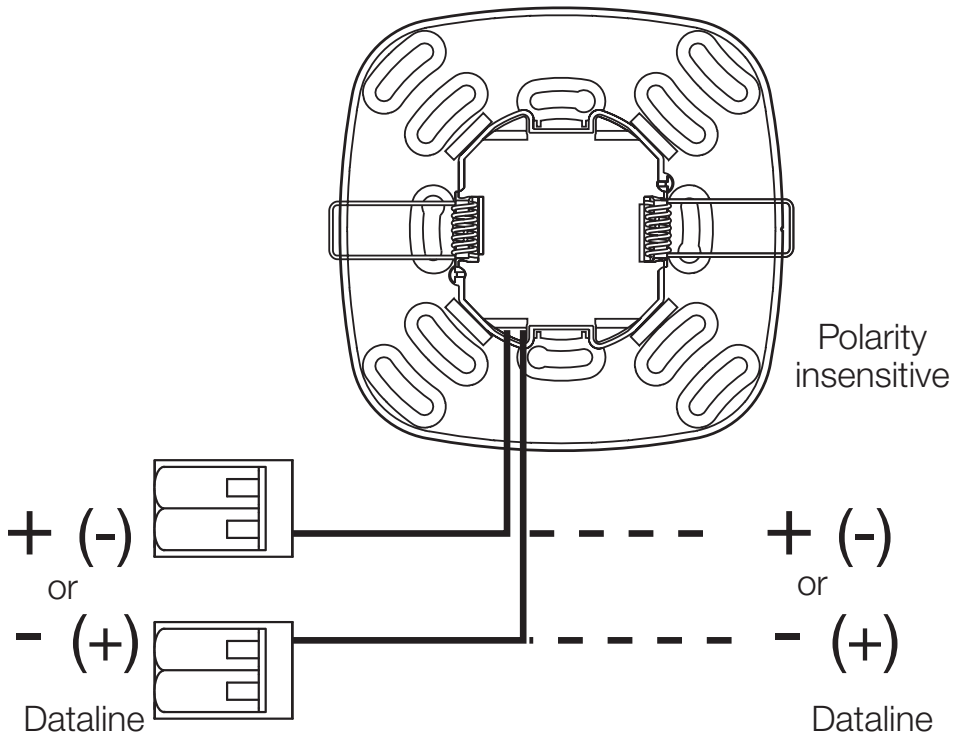
Us hallway
US oneway

Coverage diagram
at 9ft mounting
hight

One grid line = 1m / 3.3 ft

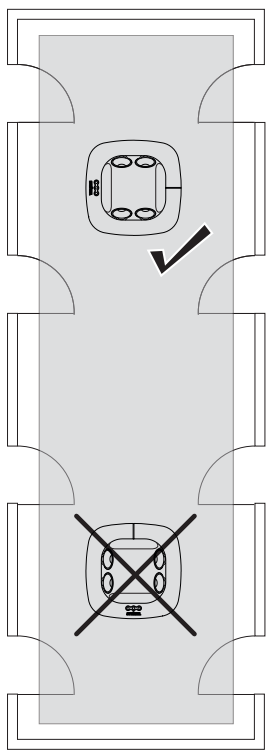


4.1

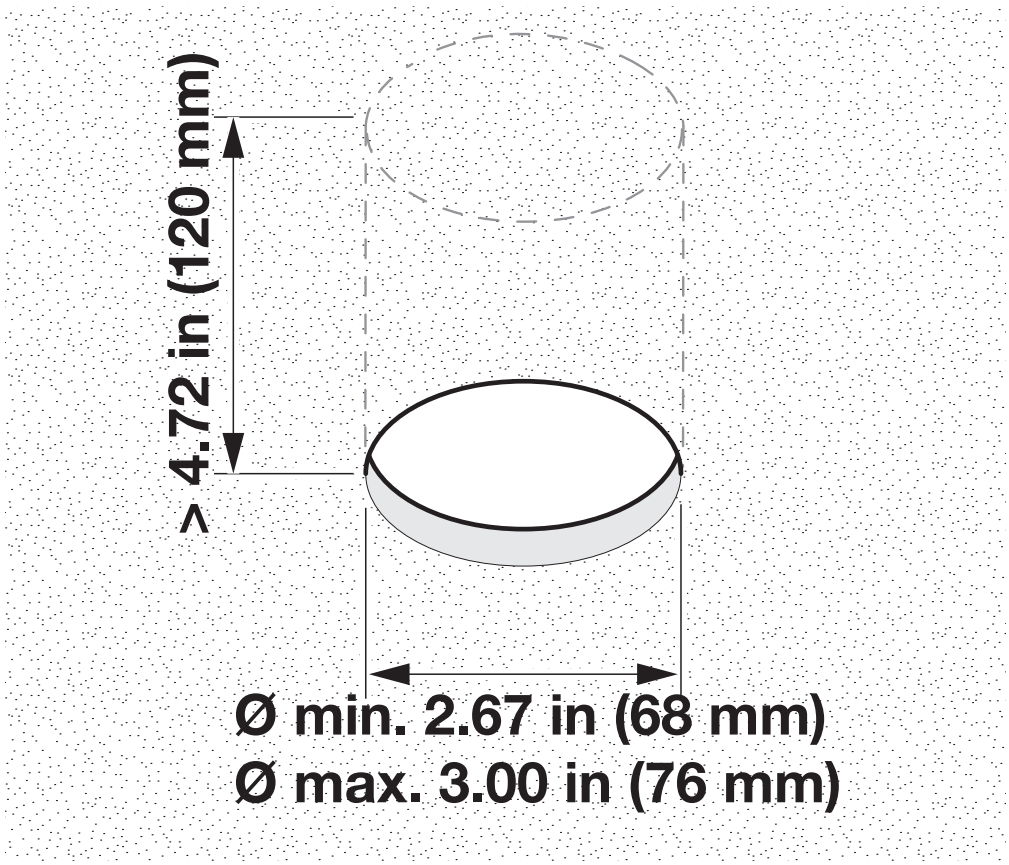


5.1

US Oneway DCS/US Hallway DCS



5.2



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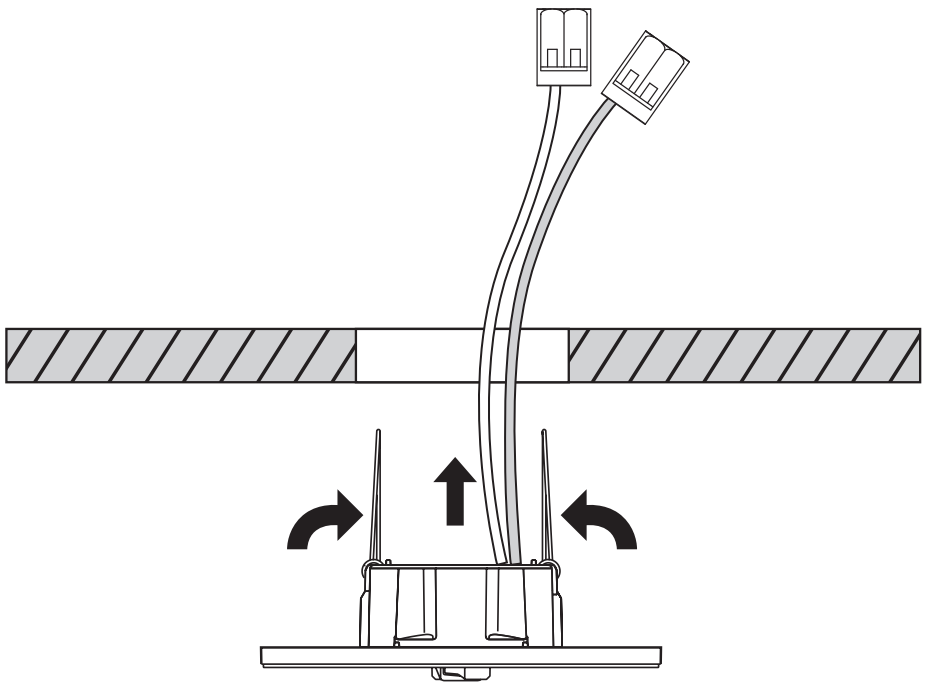

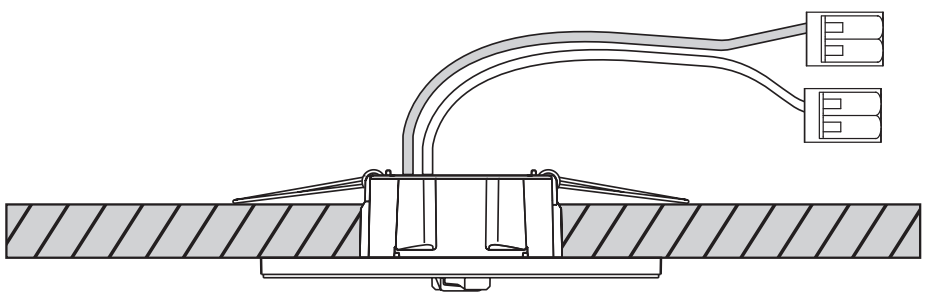

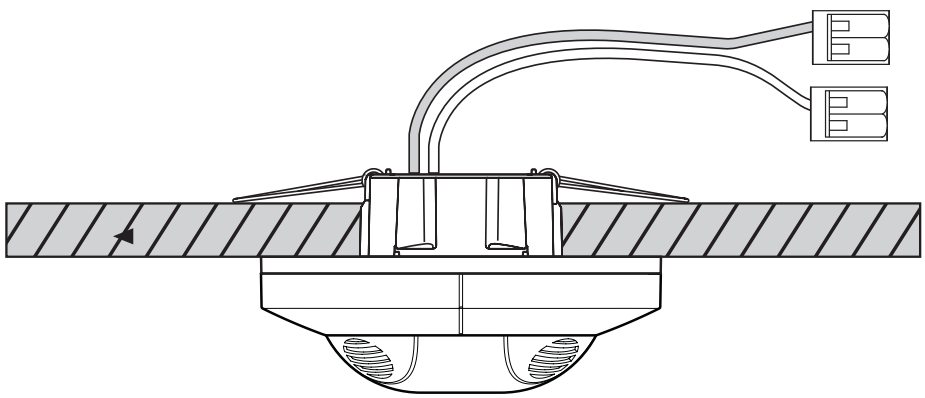

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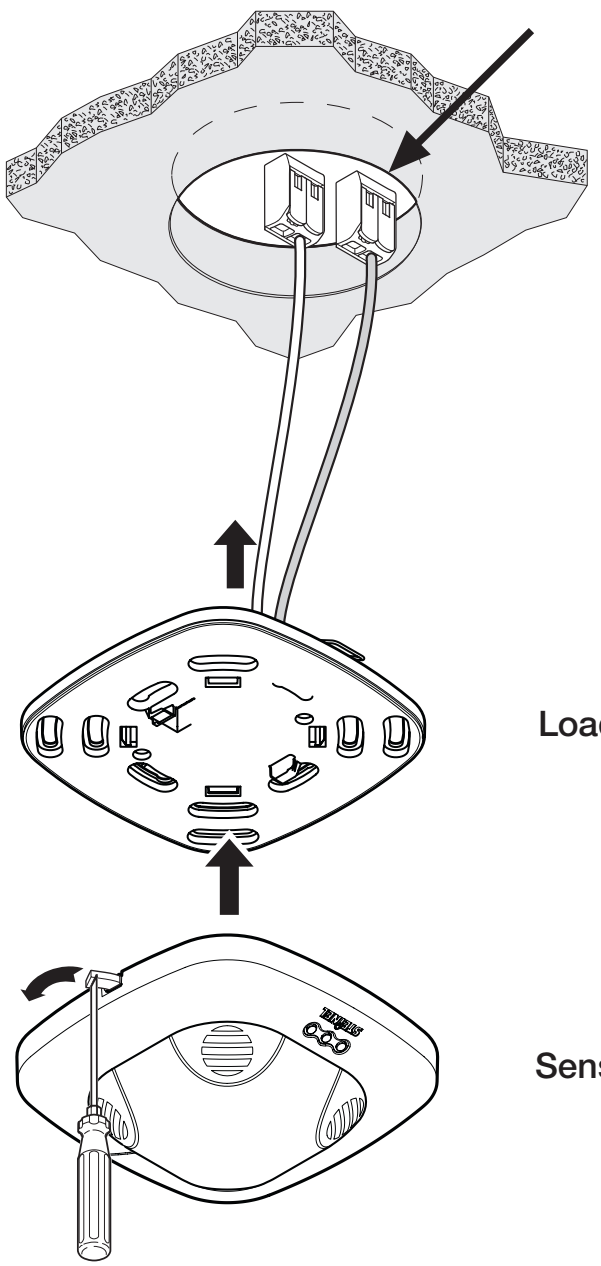
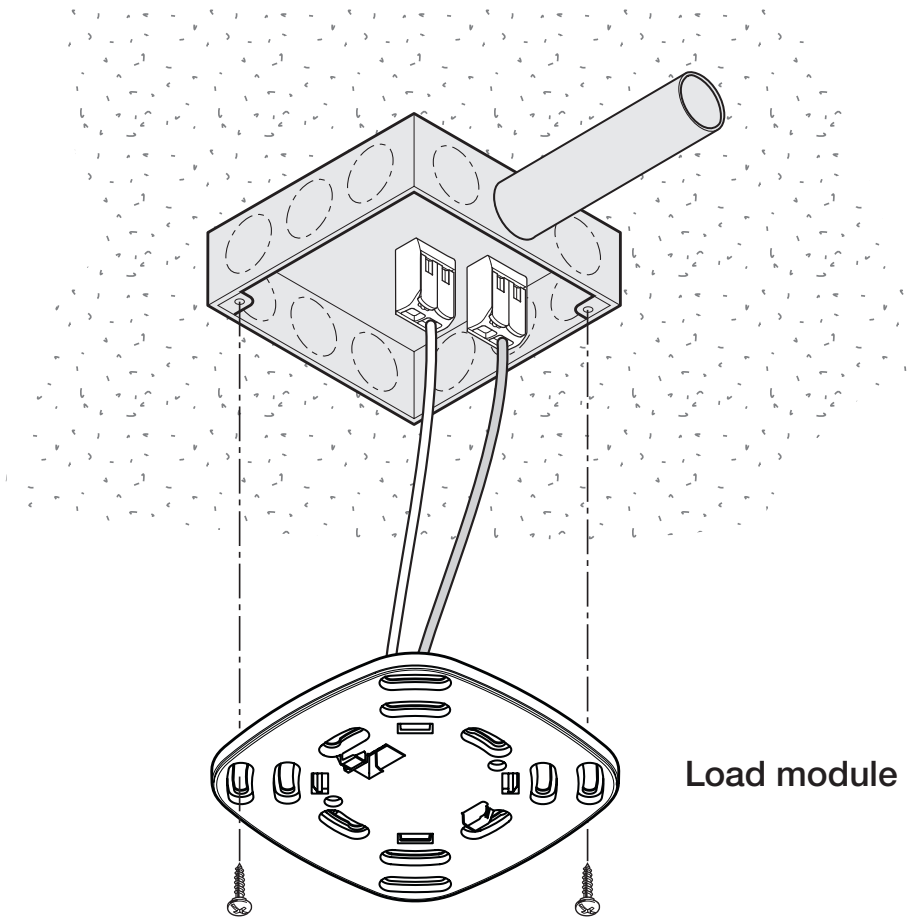


Load module

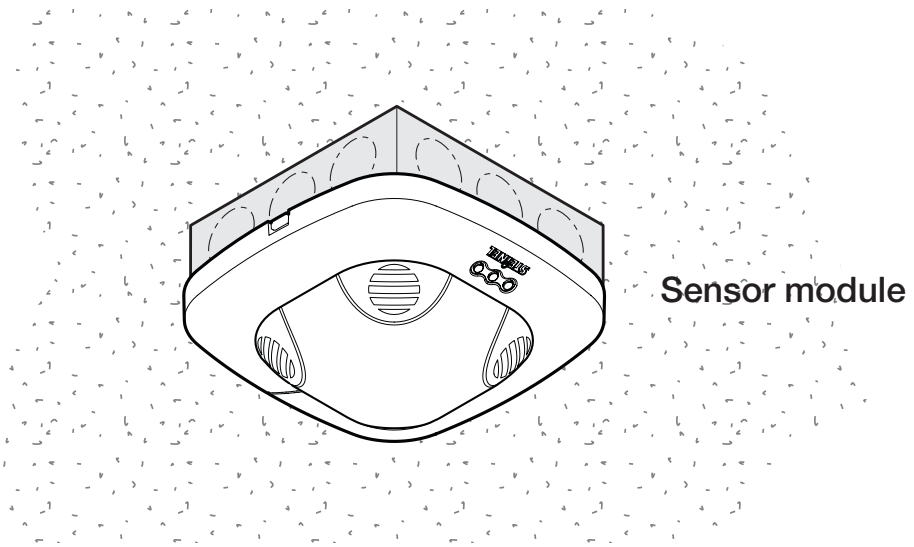
Sensor module

5.5



Load module

5.6



Sensor module

US

1. Installer

This high-quality product has been manufactured, tested and packaged with the assurance of your complete satisfaction. Please read all of the instructions before installation.
This will help you to be familiarized with all the features and options available to you with these devices. This will also assist you to minimize installation time and provide maximum energy savings and trouble-free operation.

2. Safety Warnings

WARNING

- The wiring of this device must be carried out professionally and in accordance with all local and National Electric Codes and electrical operating conditions.
- Class 2 devices are not suitable for Class 1 installations.

3. US Quattro DCS/ DT Quattro DCS/ US Oneway DCS/ US Hallway DCS

Description
Lighting is controlled in relation to both the presence of motion and ambient light levels.

Proper use:
– Presence detector for indoor mounting for connecting to the bus powered data line of the room controller.

Product dimensions for
US Quattro DCS/DT Quattro DCS
(Fig. 3.1)

Product dimensions for
US Oneway DCS/US Hallway DCS
(Fig. 3.2)

Detection zone **(Fig. 3.3/3.4)**
Coverage Diagramm at 9 ft mounting high.

The ultrasonic and DT Quattro DCS presence detectors from the Control PRO range control lighting, e.g. in offices, schools, public buildings, in relation to ambient light level and the presence of persons.

Ultrasonic sensor may false trigger when exposed to high volumes of air flow. Sensors should be installed at least 4 feet from supply ducts and a minimum of 6 feet from horizontal discharge ducts.

4. Wiring

– The sensor is a polarity insensitive device. This means it can be connected to the Data Line provided by the DCS in either way.
– The sensor is intended for concealed, indoor installation in ceilings and sofit.

Wire labelling:
Red and blue (polarity insensitive).

The lead between the DCS and the sensor must be no longer than:
– 984 ft (300 m) for 1,5 mm^2 14 AWG

After the sensor is powered on it flashes for 10 s.

Note on parallel connection:
– 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

5. Mounting

- Check all components for damage.
- Do not use the product if it is damaged.
- Select an appropriate mounting location, taking the reach and motion detection into consideration. **(Fig. 3.3/3.4)**
- Select the appropriate orientation. (US Oneway DCS/ US Hallway DCS) **(Fig. 5.1)**

Mounting procedure 1
- Drill a hole in the ceiling of min. Ø 2.67 in (68 mm)/max. Ø 3.00 in (76 mm). **(Fig. 5.2)**
- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.3)**
- Mount directly to ceiling with quick mount spring tabs. **(Fig. 5.3)**
- Insert the sensor into the load module. **(Fig. 5.3)**
- Wait for the system to reboot.
- Make settings. ➔ "6. Function / Setting"
- After installing the sensor starts to flash once a second for aprox. 2 minutes. Follow the next steps on the commissioning App of the DCS.

Mounting procedure 2
- Connect to the bus powered data line of the room controller. **(Fig. 4.1/5.4)**
- Mount the power module to a 4" Square box, 4" Octagon box or Round 3.0 Mud-Ring. **(Fig. 5.3/5.4/5.4)**
- Mount the sensor module to the power module by carefuly opening the locking tabs on the side of the sensor module. **(Fig. 5.4/5.5)**
- Wait for the system to reboot.
- Make settings. ➔ "6. Function and Settings"

After installing and switching ON, the sensor starts to flash once a second.

US Quattro DCS	10 s
US Oneway DCS	10 s
DT Quattro DCS	40 s
US Hallway DCS	10 s

6. Function / setting

The motion detection values and light levels measured by the sensor can be requested from the DCS controller App.

LED function
Red LED:
– During installation and Data Line addressing, LED flashes 1 x per second.

– After initialization is concluded the LED will turn off indicating normal working mode.
– In case of a Data Line bus reset, the sensor LED will blik indicating sensor adressing.

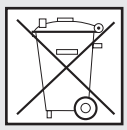
7. Maintenance / care

The product requires no maintenance.

The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

8. Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.



Do not dispose of electrical and electronic equipment as domestic waste.

9. Warranty

STEINEL America warrants its products against defects in material or workmanship for a period of five years. STEINEL will replace or repair the item provided that it has not been altered or subjected to abuse, accident, improper installation or improper use. There are no obligations or liabilities on the part of STEINEL for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

5 YEAR MANUFACTURER'S WARRANTY

10.Technical specifications

Dimensions (L × W × D)	**US Quattro DCS/DT Quattro DCS** 4.72 x 4.72 x 2.68 in (120 x 120 x 68 mm) **US Oneway DCS/US Hallway DCS** 4.72 x 4.72 x 2.87 in (120 x 120 x 73 mm)	
Power supply	**US Quattro DCS**	24 mA 12 users, 12-22.5 VDC, (class 2)
	US Oneway DCS	20 mA 10 users 12-22.5 VDC, (class 2)
	DT Quattro DCS	24 mA 12 users 12-22.5 VDC, (class 2)
	US Hallway DCS	24 mA 12 users 12-22.5 VDC, (class 2)
Sensor technology	**DT Quattro DCS** Passive infrared (PIR), Single pyro, 11 detection levels, 520 switching zones Ultrasonic 40 kHz **US Oneway DCS/US Hallway DCS/ US Quattro DCS** Ultrasonic 40 kHz	
Square detection zone (Coverage at 2.8 m/9 ft installation height)	**US Quattro DCS/DT Quattro DCS** presence max. of 20 x 20 ft (400 sq.ft)/6.0 x 6.0 m (36 sq.m.) presence min. of 6.5 x 6.5 ft (42.25 sq.ft)/2.0 x 2.0 m (4 sq.m.) radially/tangentially max. of 32 x 32 ft (1000 sq.ft)/10.0 x 10.0 m (100 sq.m.) **US Oneway DCS/US Hallway DCS** max. of 6.5 x 33 ft (214.5 sq.ft)/2.0 x 10.0 m (20 sq.m.) min. of 6.5 x 10.0 ft (65 sq.ft)/2.0 x 2.5 m (5 sq.m.) max. of 6.5 x 65 ft (422.5 sq.ft)/2.0 x 20.0 m (40 sq.m.) min. of 6.5 x 20.0 ft (130 sq.ft)/2.0 x 5.0 m (10 sq.m.)	

PIR detection zones	**DT Quattro DCS** presence max. of 10 x 10 ft (100 sq.ft)/3.0 x 3.0 m (9 sq.m.) radially max. of 13.0 x 13.0 ft/4.0 x 4.0 m tangentially max. of 26 x 26 ft/8.0 x 8.0 m
Light measurement	1 - 92 fc (10 - 1000 lux)
Mounting height	2.5-3.5 m/8.-12 ft
IP rating	IP 20-For indoor use only
Temperature range	32°F to +104°F (0°C to +40°C)
UL	UL 2043 Plenum rated
	Made in Romania
	www.steinel.net

11.Troubleshooting

Malfunction	Cause	Remedy
Sensor not detecting motion	■ Sensor is not wired properly to the Data Line of the Controller	■ In the DCS App check if the bus connection is working properly over the LED blinking function available on the sensor settings page
Sensor is wired up properly but still not reacting to motion	■ Additional sensor settings in the DCS App need to be checked and corrected	■ Check complete assignment of the sensor functionalites for the itended lighting zones in the App configuration. Make sure the sensor is assigned to the proper zone and the desired sequence of operation is selected
Sensor sending motion detection signal when it should not	■ There is interference, e.g. fan, air conditioning system or other source of heat, in the detection zone	■ Relocate the sensor
	■ Sensor near Wi-Fi or other wireless communication source	■ Install at least 6 ft away from the wireless communication source