

**STEINEL**<sup>®</sup>  
PROFESSIONAL



Wherever the best is needed.

**Sensors for professionals.**

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Summary of order numbers

A close-up, black and white photograph of a hand holding a white pencil with black dots. The pencil is positioned vertically, with the tip pointing downwards and touching a white surface. The hand is holding the pencil in a tripod grip. The background is dark, making the white pencil and hand stand out.

We invent.  
That's why we're  
the leader in  
sensor technology.

**STEINEL leads the way in innovation and technology. Professionals worldwide have come to expect the superior performance, reliability and value only an industry leader can provide.**

To make everyday life simpler and more convenient through pioneering ideas and intelligent technologies - that is our aspiration. Since 1959 we have registered more than 300 patents, designs and models for our inventions. These have resulted in over 2,500 products belonging to the best of their kind.

STEINEL has always been synonymous with maximum precision, perfection and functionality. Light planners, architects and electricians all around the world appreciate quality and reliability in the STEINEL name. You can rely on our long-lasting products. They work perfectly and are to be found in millions of offices, hospitals, schools, residences, warehouses and airports around the world.

# Long-standing family business and successful across the globe.

**Tradition meets the cutting-edge: as an innovative family-run business, we play an active role in shaping the future and serve the global market.**

The STEINEL company was founded in Germany in 1959 by Heinrich Wolfgang Steinel. Over the years, STEINEL has consistently evolved from pioneer to technology and innovation leader in sensor-controlled lighting management.

Today 1,400 employees work under the direction of Ingo Steinel - the second-generation owner of our family business. With six European production locations and subsidiaries around the world; we offer products that make life easier, safer and more environmentally friendly.



# State-of-the-art coverage.

**Our unique innovative lens technology and multiple pyros make the difference.**

STEINEL has developed an unprecedented, comprehensive family of high quality, European made presence detectors. The Control Pro System is the result of years of careful research and development and satisfies the goal of providing the market with the finest specification-grade lighting control solutions. The lens optical design provides 4,800 switching zones resulting in much greater precision in detection. The unique lens design offers the advantage of a square coverage zone incorporating an unprecedented 4 pyroelectric sensors. The extremely high-definition lens provides the smallest motion detection in the industry and the square coverage pattern provides the basis for creating optimum configurations quickly and easily.



4 pyros square scalable coverage pattern

4,800 detection zones for highest precision



# German engineering. Manufactured in Europe.

**Uncompromising quality from one source. The highest level of verticle integration for maximum perfection.**

All STEINEL products are manufactured in our own company-owned factories: from developing, designing and manufacturing individual components to making the finished product. Keeping the entire production process in-house brings quality, flexibility and independence. With German engineering and a focus on quality, STEINEL products are designed and manufactured together, with close attention at every part of the process.



# Professional planning made easy. Contact our technical team.

**Our support team guides you through your project with their experience and expertise.**

Whether in long corridors, irregularly shaped stairwells, single-occupancy or open offices, bathrooms, or warehouses: when planning the right sensor technology for automatic lighting control, there are always many different spatial situations and challenges. STEINEL has been developing optimum lighting control for each and every one of them for over 25 years. Our technical team provides professional design layout, autocad capabilities, wiring expertise and best practices for code compliant solutions to help make your project a success.





## Presence Detectors

### Control Pro Series.

High definition specification-grade presence detectors.

The Control Pro Series includes high definition passive infrared, ultrasonic and dual technologies to accurately detect the smallest movement of a person. We offer a complete range of line voltage or low voltage sensors for use with power packs and building automation systems. COM2-24 control versions offer an independently programmed HVAC control output with normally open or normally closed contacts. DIM-24 units provide 1-10 volt manual dimming or auto photo control dimming and a dim before disconnect feature. All versions offer selectable auto ON or manual ON functions with either momentary or maintained switch inputs. The "COMLink" feature allows multiple sensors to communicate together to achieve expanded detection zones. When multiple sensors are wired in a master / auxiliary configuration the control set up functions can be programmed at one primary sensor for the entire group. Available Smart Remote (Android and iOS compatible) or service and user wireless remotes provide simplified commissioning and occupant convenience.

### Applications

The typical application is for offices, conference rooms, classrooms and other indoor public building spaces.



	IR Quattro HD	IR Quattro	DT Quattro	US Quattro	US Hallway	US Oneway	IR CM	DT CM
COM1-24	•	•	•	•	•	•	•	•
COM1-WR	•	•						
COM2-24	•	•	•	•	•	•	•	•
DIM-24	•	•	•	•	•	•	•	•
KNX	•	•	•	•	•	•		
Sensor	High Definition Passive Infrared	Passive Infrared	Ultrasonic + Passive Infrared	Ultrasonic	Ultrasonic	Ultrasonic	Passive Infrared	Ultrasonic + Passive Infrared
Switching Zones	4,800	1,760	520	-	-	-	520	520
Installation height	8-32 ft (2.5-10m)	8-26 ft (2.5-8m)	8-12 ft (2.5-3.5m)	8-12 ft (2.5-3.5m)	8-12 ft (2.5-3.5m)	8-12 ft (2.5-3.5m)	8-12 ft (2.5-3.5m)	8-12 ft (2.5-3.5m)
Detection zones	Presence: 25.5x25.5 ft max. Radial: 25.5x25.5 ft max. Tangential: 65.5x65 ft max.	Presence: 15x 15 ft max. Radial: 15x 15 ft max. Tangential: 23x23 ft max.	Presence: 20x20 ft max. Radial: 32x32 ft max. Tangential: 32x32 ft max.	Presence: 20x20 ft max. Radial: 32x32 ft max. Tangential: 32x32 ft max.	6.5x65 ft max.	6.5x33 ft max.	Presence: 22 ft max. Radial: 26 ft max. Tangential: 82 ft max.	Presence: 22 ft max. Radial: 38 ft max. Tangential: 82 ft max.
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## IR Quattro HD





Presence Detector

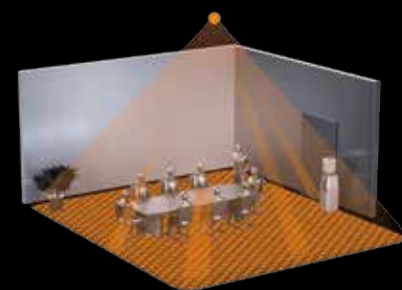
High definition passive infrared.  
Minimal movement required.

The IR Quattro HD is a high definition, passive infrared presence detector setting a new standard in lighting control with minimal movement required for human presence detection. Features four pyroelectric detectors with a high performance lens system that creates a new global standard in detection with 4,800 switching zones. Operational choices of manual ON or auto ON with either momentary or maintained switch options. Included light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings. The innovative mechanical reach setting enables the designer with a precise method of controlling lighting zones by means of optimizing the detection reach without compromising sensitivity providing precise presence detection in the desired detection zone.

### Applications

The typical application is for offices, conference rooms, classrooms and other indoor public building spaces.

<b>PIR HD</b>					<b>5 YEARS WARRANTY</b>	
Passive Infrared	4,800 Detection Zones	26 x 26 ft Presence 65 x 65 ft Tangential	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 32 ft	Functional Warranty

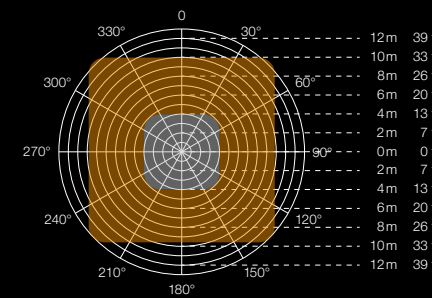


### Key features

- Extremely high definition PIR presence detection
- Mechanical reach setting
- Square coverage pattern with 4,800 switching zones
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option

DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height  
orange = tangential  
gray = presence & radial

### Coverage

- 1. Tangential:**  
motion perpendicular to the sensor  
max. 65.5 x 65.5 ft (4290 sq.ft.)  
max. 20 x 20 m (400 sq.m.)
- 2. Radial:**  
motion either directly toward or away from the sensor  
max. 25.5 x 25.5 ft (650 sq.ft.)  
max. 7.9 x 7.9 m (62 sq.m.)
- 3. Presence:**  
minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
max. 25.5 x 25.5 ft (650 sq.ft.)  
max. 7.9 x 7.9 m (62 sq.m.)

### Technical Information

- Sensing Technology** passive infrared (PIR)
- Light Level Setting** 1 - 100 fc (10 - 1,000 lux)
- Environment** IP20 rated, 32 °F to +104 °F (0 °C to +40 °C)
- Coverage** 360° square mechanically scalable detection zones
- Installation Height** 8 - 32 ft (2.5 - 10 m)
- Sensors** 4 infrared pyroelectric detectors
- Design** 13 detection levels, 4,800 switching zones
- Dimensions (LxWxD)** 4.72 x 4.72 x 2.83 in (120 x 120 x 72 mm)
- Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, UL 2043 Plenum Rated, CA Energy Code compliant

### Ordering Details

- 64460 IR Quattro HD COM1-24
- 64470 IR Quattro HD COM2-24
- 64480 IR Quattro HD DIM-24
- 64490 IR Quattro HD COM1-WR
- 64500 IR Quattro HD KNX

**For information on the interface, please turn to page 32**

### Accessories

- 65900 Smart Remote
  - 65330 WGC wire guard cage
- For more accessories see page 38**

## IR Quattro

Presence Detector

High performance lens.  
1,760 switching zones.

The IR Quattro is a passive infrared presence detector setting a new standard in lighting control with minimal movement required for human presence detection. It features a single pyroelectric detector with a high performance lens system creating 1,760 switching zones. Operational choices of manual ON or auto ON with either momentary or maintained switch options. Included light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings. The innovative mechanical reach setting enables the designer with a precise method of controlling lighting zones by means of optimizing the sensors detection reach without compromising sensitivity providing true precise presence detection in the desired detection zone.

### Applications

The typical application is for offices, conference rooms, classrooms and other indoor public building spaces.

<b>PIR</b>					<b>5 YEARS WARRANTY</b>
1,760 PIR Detection Zones	15 x 15 ft Presence 23 x 23 ft Tangential	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 26 ft	Functional Warranty

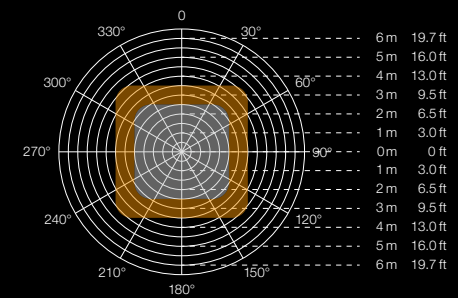


#### Key features

- PIR presence detection and mechanical reach setting
- Square coverage pattern with 1,760 switching zones
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option
- 'ON' only / 'ON' & 'OFF' manual switching

DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height  
orange = tangential  
gray = presence & radial

#### Coverage

- 1. Tangential:** motion perpendicular to the sensor  
max. 23 x 23 ft (529 sq.ft.)  
max. 7.1 x 7.1 m (50 sq.m.)
- 2. Radial:** motion either directly toward or away from the sensor  
max. 15 x 15 ft (225 sq.ft.)  
max. 4.7 x 4.7 m (22 sq.m.)
- 3. Presence:** minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
max. 15 x 15 ft (225 sq.ft.)  
max. 4.7 x 4.7 m (22 sq.m.)

#### Technical Information

- Sensing Technology** passive infrared (PIR)
- Light Level Setting** 1 - 100 fc (10 - 1,000 lux)
- Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)
- Coverage** 360° square mechanically scalable detection zones
- Installation Height** 8 - 26 ft (2.5 - 8 m)
- Sensors** single infrared pyroelectric detector
- Design** 13 detection levels, 1,760 switching zones
- Dimensions (LxWxD)** 4.72 x 4.72 x 3.03 in (120 x 120 x 77 mm)
- Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS compliant, UL 2043 Plenum Rated, CA Energy Code compliant

#### Ordering Details

- 64410 IR Quattro COM1-24
- 64420 IR Quattro COM2-24
- 64430 IR Quattro DIM-24
- 64440 IR Quattro COM1-WR
- 64450 IR Quattro KNX

**For information on the interface, please turn to page 32**

#### Accessories

- 65900 Smart Remote
  - 65330 WGC wire guard cage
- For more accessories see page 38**

## DT Quattro





Presence Detector

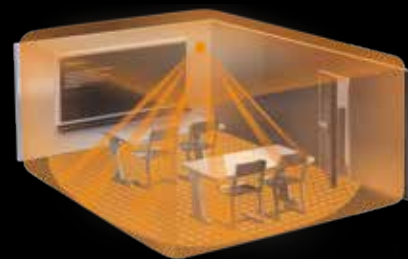
Dual, PIR and ultrasonic technologies.  
Flawlessly detects the presence of a person in a space.

The DT Quattro 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. Operational choices of auto ON or manual ON with a momentary or maintained switch input.

### Applications

The typical application is for classrooms, conference rooms, computer rooms, storage rooms, workspaces and open office.

<b>DUAL TECH</b>					<b>5 YEARS WARRANTY</b>
Passive Infrared Ultrasonic	20 x 20 ft Presence 32 x 32 ft Maximum	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 12 ft	Functional Warranty

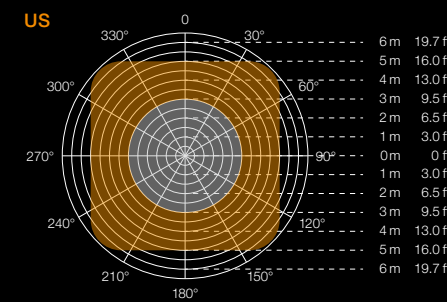
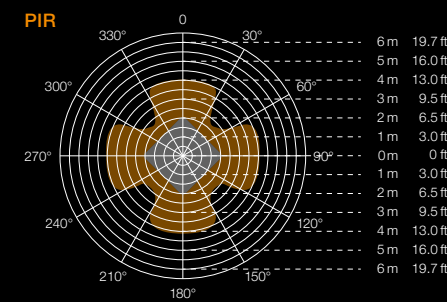


### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- 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

### DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height

**PIR**  
orange = tangential  
gray = radial & presence

**US**  
orange = tangential & radial  
gray = presence

### Coverage

- 1. Tangential:**  
motion perpendicular to the sensor  
PIR: max. 13 ft / 4 m  
US: up to 16.4 ft / 5 m
- 2. Radial:**  
motion either directly toward or away from the sensor  
PIR: max. 6.5 ft / 2 m  
US: up to 16.4 ft / 5 m
- 3. Presence:**  
minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
PIR: max. 10x10ft (100sq.ft.) / 3x3m (9sq.m.)  
US: max. 20x20ft (400sq.ft.) / 6x6m (36sq.m.)

### Technical Information

- Sensing Technology** passive infrared (PIR) & ultrasonic 40kHz
- Light Level Setting** 1 - 100fc (10 - 1,000 lux)
- Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)
- Coverage** 360°
- Installation Height** 8 - 12 ft (2.5 - 3.5 m)
- Sensors** single infrared pyroelectric detector
- Design** 11 detection levels, 520 switching zones
- Dimensions (LxWxD)** 4.72x4.72x2.68 in (120x120x68mm)
- Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, UL 2043 Plenum Rated, CA Energy Code compliant

### Ordering Details

64700 DT Quattro COM1-24  
64710 DT Quattro COM2-24  
64720 DT Quattro DIM-24  
42904 DT Quattro KNX

**For information on the interface, please turn to page 32**

### Accessories

65900 Smart Remote  
65330 WGC wire guard cage  
**For more accessories see page 38**



## US Quattro

Presence Detector

Wide area ultrasonic technology.  
Commissioned with wireless remote.

The US Quattro is a low voltage Ultrasonic Technology Presence Detector (40 kHz) that utilizes STEINEL's state of the art ultrasonic signal processing to providing superior stable volumetric omnidirectional detection. Ultrasonic is used for best practice in design and retrofit applications where the sensor will not have a clear line of sight view of the occupants in the desired coverage area. Operational choices of manual ON or auto ON with either momentary or maintained switch options. The light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings.

### Applications

Typical applications are for large open areas with cubicals, work stations, conference rooms, bathrooms, storage areas with racking or applications requiring a volumetric pattern of detection.

<b>40 kHz</b>					<b>5 YEARS WARRANTY</b>
Ultrasonic	20 x 20 ft Presence 32 x 32 ft Maximum	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 12 ft	Functional Warranty

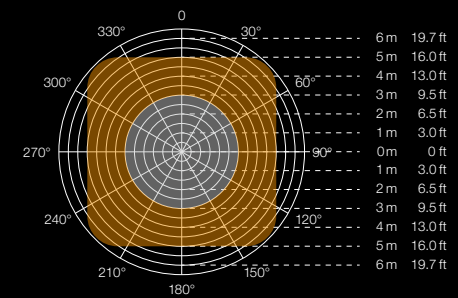


### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Omnidirectional 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

DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height  
orange = tangential & radial  
gray = presence

### Coverage

- 1. Tangential:**  
motion perpendicular to the sensor  
max. 32x32 ft (1,000sq.ft.)  
max. 10x10m (100sq.m.)
- 2. Radial:**  
motion either directly toward or away from the sensor  
max. 32x32 ft (1,000sq.ft.)  
max. 10x10m (100sq.m.)
- 3. Presence:**  
minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
max. 20x20 ft (400sq.ft.)  
max. 6x6m (36sq.m.)

### Technical Information

- Sensing Technology** ultrasonic 40kHz
- Light Level Setting** 1 - 100 fc (10 - 1,000 lux)
- Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)
- Coverage** 360°
- Installation Height** 8 - 12 ft (2.5 - 3.5 m)
- Dimensions (LxWxD)** 4.72x4.72x2.68 in (120x120x68mm)
- Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, UL 2043 Plenum Rated, CA Energy Code compliant

### Ordering Details

- 64510 US Quattro COM1-24
- 64520 US Quattro COM2-24
- 64530 US Quattro DIM-24
- 42901 US Quattro KNX

For information on the interface, please turn to page 32

### Accessories

- 65900 Smart Remote
  - 65330 WGC wire guard cage
- For more accessories see page 38



## US Hallway

Occupancy Sensor

Precise ultrasonic technology.  
Unique linear bidirectional coverage pattern.

The US Hallway is a low voltage Ultrasonic Technology Occupancy Sensor (40 kHz) that utilizes STEINEL's state of the art ultrasonic signal processing to provide superior stable volumetric bidirectional detection. The unique linear bidirectional coverage pattern is engineered specifically for hallways and applications requiring a true linear volumetric pattern of detection. This is an ideal hallway sensor for design and retrofit applications. Operational choices of manual ON or auto ON with either momentary or maintained switch options. Included light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings.

### Applications

The typical best practice applications for the US Hallway sensors are: Hallways, tunnel walkways, sky walks, etc.

<b>40 kHz</b>					<b>5 YEARS WARRANTY</b>
Ultrasonic	6.5x65 ft Maximum	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 12 ft	Functional Warranty

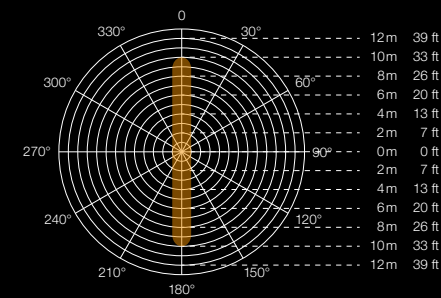


#### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Bidirectional ultrasonic (40 kHz) occupancy sensor
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option
- 'ON' only / 'ON' & 'OFF' manual switching

DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height  
orange = radial

#### Coverage

- Ultrasonic Detection:**  
 max. 6.5x65 ft (422.5sq.ft.)  
 max. 2x20m (40 sq.m.)  
 min. 6.5x20ft (130sq.ft.)  
 min. 2x5m (10 sq.m.)

#### Technical Information

- Sensing Technology** ultrasonic 40kHz  
**Light Level Setting** 1 - 100fc (10 - 1,000 lux)  
**Environment** IP20 rated,  
 32°F to +104°F (0°C to +40°C)  
**Coverage** 6.5x65ft linear  
**Installation Height** 8 - 12ft (2.5 - 3.5m)  
**Dimensions (LxWxD)** 4.72x4.72x2.87in  
 (120x120x73mm)  
**Warranty** 5 years

#### Certifications

- C-UL-US Listed, RoHS compliant,  
 UL 2043 Plenum Rated,  
 CA Energy Code compliant

#### Ordering Details

- 64550 US Hallway COM1-24  
 64560 US Hallway COM2-24  
 64570 US Hallway DIM-24  
 42902 US Hallway KNX

**For information on the interface, please turn to page 32**

#### Accessories

- 65900 Smart Remote  
 65330 WGC wire guard cage  
**For more accessories see page 38**

## US Oneway

Occupancy Sensor

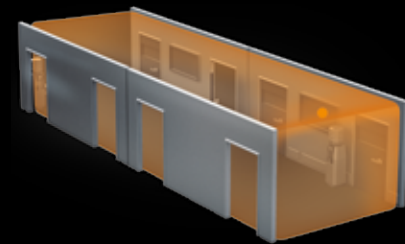
Unique linear ultrasonic technology.  
Unidirectional coverage.

The US Oneway is a low voltage Ultrasonic Technology Occupancy Sensor (40 kHz) that utilizes STEINEL's state of the art ultrasonic signal processing to providing superior stable volumetric unidirectional detection. The unique linear unidirectional coverage pattern is engineered specifically for hallways and applications requiring a true volumetric linear pattern of detection. This is an ideal hallway sensor for design and retrofit applications where coverage is desired only in a single direction or small space applications where the sensor will not have a complete line of sight view of the occupied space. Operational choices of manual ON or auto ON with either momentary or maintained switch options. Included light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings.

### Applications

The typical best practice applications are: Hallways, underground walkways, sky walks, small offices and small bathroom.

<b>40 kHz</b>					<b>5 YEARS WARRANTY</b>
Ultrasonic	6.5x33 ft Maximum	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 12 ft	Functional Warranty

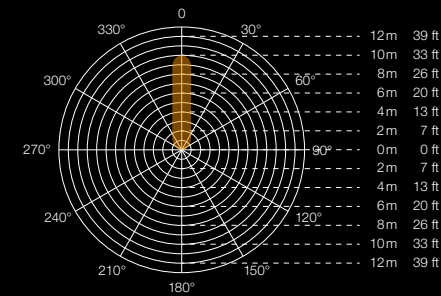


### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Unidirectional ultrasonic (40 kHz) occupancy sensor
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option
- 'ON' only / 'ON' & 'OFF' manual switching

### DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Shown at 9ft mounting height  
orange = radial

### Coverage

- Ultrasonic Detection:**  
 max. 6.5x33ft (214.5sq.ft.)  
 max. 2x10m (20sq.m.)  
 min. 6.5x10ft (65sq.ft.)  
 min. 2x2.5m (5sq.m.)

### Technical Information

- Sensing Technology** ultrasonic 40kHz  
**Light Level Setting** 1 - 100fc (10 - 1,000 lux)  
**Environment** IP20 rated,  
 32°F to +104°F (0°C to +40°C)  
**Coverage** 6.5x35ft linear  
**Installation Height** 8 - 12ft (2.5 - 3.5m)  
**Dimensions (LxWxD)** 4.72x4.72x2.87in  
 (120x120x73mm)  
**Warranty** 5 years

### Certifications

- C-UL-US Listed, RoHS compliant,  
 UL 2043 Plenum Rated,  
 CA Energy Code compliant

### Ordering Details

- 64600 US Oneway COM1-24  
 64610 US Oneway COM2-24  
 64620 US Oneway DIM-24  
 42903 US Oneway KNX

**For information on the interface, please turn to page 32**

### Accessories

- 65900 Smart Remote  
 65330 WGC wire guard cage  
**For more accessories see page 38**

## IR CM

Presence Detector

### Unparalleled performance in a corner mount sensor.

The IR CM is a low voltage passive infrared corner mount presence detector setting a new standard in lighting control with minimal movement required for human presence detection. It features a pyroelectric detector with a high performance lens system creating 520 switching zones. Operational choices of manual ON or auto ON with either momentary or maintained switch options. Included light level feature provides the option to turn lights off when sufficient daylight is present for additional energy savings. 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 convenient control set up functions set at only one primary sensor for the entire group.

#### Applications

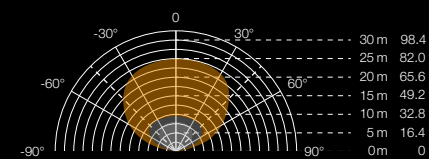
The typical application is for offices, conference rooms, classrooms and other indoor public building spaces.



Interfaces for COM1-24, COM2-24 and DIM-24

Passive Infrared Technology

<b>PIR</b>					<b>5 YEARS WARRANTY</b>
520 PIR Detection Zones	160° 22 ft Presence 82 ft Tangential	Teach Mode 1 - 100 fc	IQ/Test 30 Sec - 30 Min	Installation Height 8 - 12 ft	Functional Warranty



Shown at 9ft mounting height  
orange = tangential  
dark gray = radial  
light gray = presence



#### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- PIR Presence Detection with 520 switching zones
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)
- Momentary / Maintained switch option
- 'ON' only / 'ON' & 'OFF' manual switching

DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control

#### Coverage

- 1. Tangential:**  
motion perpendicular to the sensor  
max. 82 ft (5,290 sq.ft.)  
max. 25 m (1,612 sq.m.)
- 2. Radial:**  
motion either directly toward or away from the sensor  
max. 26 ft (655 sq.ft.)  
max. 8 m (200 sq.m.)
- 3. Presence:**  
minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
max. 22 ft (440 sq.ft.)  
max. 7 m (134 sq.m.)

#### Technical Information

**Sensing Technology** passive infrared (PIR)  
**Light Level Setting** 1 - 100 fc (10 - 1,000 lux)  
**Environment** IP20 rated, 32°F to +131°F (0°C to +55°C)  
**Coverage** 160°  
**Installation Height** 8 - 12 ft (2.5 - 3.5 m)  
**Sensors** single infrared pyroelectric detector  
**Design** 11 detection levels, 520 switching zones  
**Dimensions (L x W x D)** 4.72 x 2.76 x 4.21 in (120 x 70.2 x 107 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS compliant, CA Energy Code compliant

#### Ordering Details

65400 IR CM COM1-24  
65420 IR CM COM2-24  
65440 IR CM DIM-24

**For information on the interface, please turn to page 32**

#### Accessories

65320 RC 4 user remote  
65800 RC 8 service remote  
65900 Smart Remote

## DT CM

Presence Detector

### Dual, PIR and ultrasonic technologies. Impeccable presence detection.

The DT CM dual technology corner mount 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 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. Operational choices of auto ON or manual ON with a momentary or maintained switch input.

#### Applications

Typical applications include classrooms, conference rooms, computer rooms, workspaces and open office spaces.

**DUAL  
TECH**

Passive Infrared  
Ultrasonic

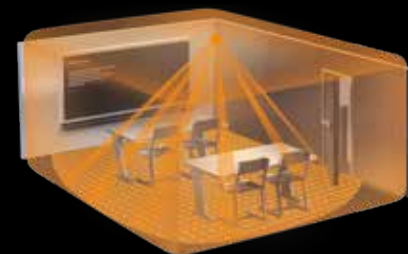
160°  
22 ft Presence  
82 ft Tangential

Teach  
Mode  
1 - 100 fc

IQ/Test  
30 Sec -  
30 Min

Installation  
Height  
8 - 12 ft

**5 YEARS  
WARRANTY**  
Functional  
Warranty



#### Key features

- Low voltage (18-24 VDC/VAC) sensor for use with a power pack or building automation system
- Stay 'ON' time DIM before 'OFF'
- Constant light level DIM control option
- PIR & Ultrasonic (40 kHz) Presence Detection
- Service and user wireless remotes available
- Manual ON mode (MAN) / Automatic mode (AUTO)

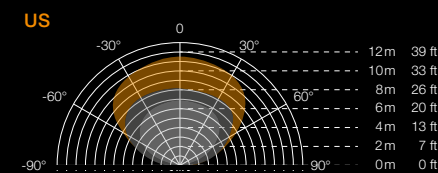
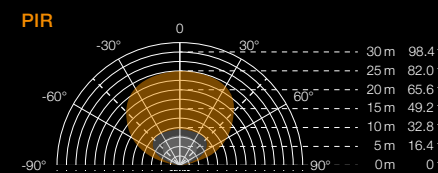
DIM-24 additional features via Smart Remote

- Hold OFF or force OFF light level feature
- Partial OFF and partial ON control



Interfaces for  
COM1-24, COM2-24  
and DIM-24

PIR & 40 kHz Ultrasonic  
Technologies



Shown at 9ft mounting height

**PIR**  
orange = tangential  
dark gray = radial  
gray = presence

**US**  
orange = radial  
dark gray = tangential  
gray = presence

#### Coverage

- 1. Tangential:**  
motion perpendicular to the sensor  
PIR: max. 82 ft (5,290 sq.ft.) / 25 m (1,612 sq.m.)  
US: max. 26 ft (718 sq.ft.) / 8 m (218 sq.m.)
- 2. Radial:**  
motion either directly toward or away from the sensor  
PIR: max. 26 ft (655 sq.ft.) / 8 m (200 sq.m.)  
US: max. 38 ft (1,236 sq.ft.) / 11.5 m (376 sq.m.)
- 3. Presence:**  
minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection  
PIR: max. 22 ft (440 sq.ft.) / 7 m (134 sq.m.)  
US: max. 22 ft (426 sq.ft.) / 7 m (130 sq.m.) / min. 20%

#### Technical Information

- Sensing Technology** passive infrared (PIR) & ultrasonic 40kHz
- Light Level Setting** 1 - 100 fc (10 - 1,000 lux)
- Environment** IP20 rated, 32°F to +131°F (0°C to +55°C)
- Coverage** 160°
- Installation Height** 8 - 12 ft (2.5 - 3.5 m)
- Sensors** single infrared pyroelectric detectors & ultrasonic 40 kHz
- Design** 11 detection levels, 520 switching zones
- Dimensions (L x W x D)** 4.72 x 2.76 x 4.21 in (120 x 70.2 x 107 mm)
- Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS compliant, CA Energy Code compliant

#### Ordering Details

65500 DT CM COM1-24  
65520 DT CM COM2-24  
65540 DT CM DIM-24

**For information on the interface, please turn to page 32**

#### Accessories

65320 RC 4 user remote  
65800 RC 8 service remote  
65900 Smart Remote

## Interfaces & Wiring

### Presence Detector

The interface to select depends on the applications that are planned. STEINEL offers a variety of interfaces: COM1-WR, COM1-24, COM2-24, DIM-24 and KNX. Presence Control PRO devices can be used for operating and controlling multiple functions: not only for switching light ON and OFF automatically but also heating, ventilation and air-conditioning systems. Controlling light as and when it is needed; pre-selected settings can be used for maintaining a constant level of lighting in a room - in relation to daylight.

For additional wiring diagrams please view our website at [www.steinel.net](http://www.steinel.net)

## COM1-24

### Voltage

IR Quattro/US Quattro/US Hallway/US Oneway/DT Quattro: 18-24 VDC/VAC (30mA)

IR Quattro HD/DT CM: 18-24 VDC/VAC (32mA)

IR CM: 18-24 VDC/VAC (20mA)

### Load Rating

control output (blue) - 1A @ 30 VAC/VDC

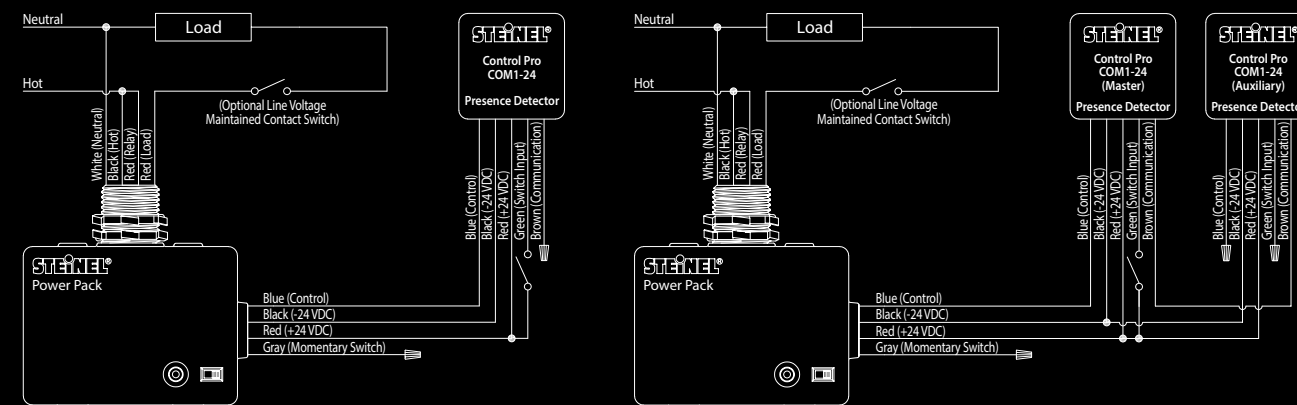
(IR CM & DT CM: control output (blue) - 1A @ 24 VAC/VDC)

### Time Setting

control output 30 sec. - 30 min.

pulse mode (approx. 2 sec. 'ON' 8 sec. 'OFF') - for time delay relay

IQ mode (automatic adjustment to the usage profile)



18 AWG wire is recommended for low voltage sensor & power pack connection.

**Note:** Power Pack must be in Auto mode.

## COM1-WR

### Voltage

120/230/277 VAC

### Load Rating

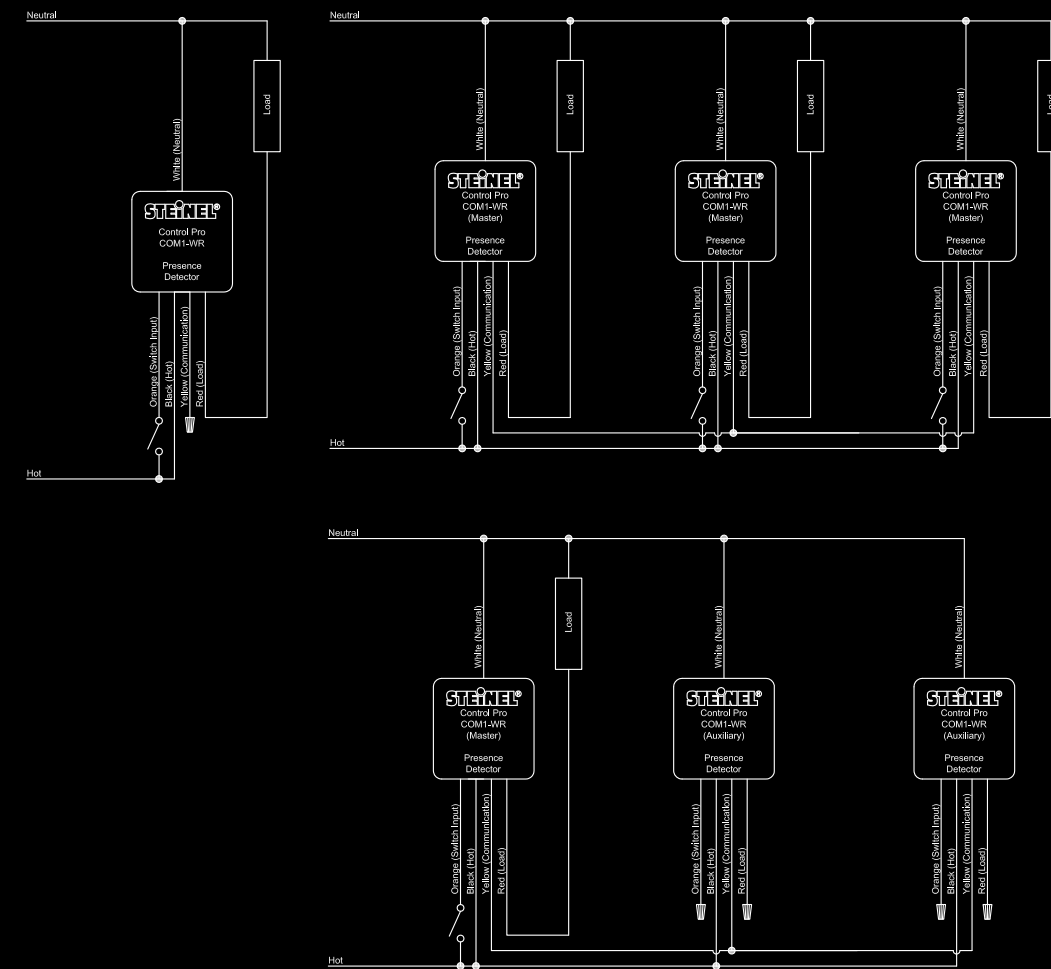
0-800 Watts @ 120 VAC, 50/60 Hz - tungsten, electronic or magnetic ballast - 1/4 hp

0-1200 Watts @ 230/277 VAC, 50/60 Hz - tungsten, electronic or magnetic ballast - 1/4 hp

### Time Setting

30 sec. – 30 min., pulse mode (approx. 2 sec.),

IQ mode (automatic adjustment to the usage profile)

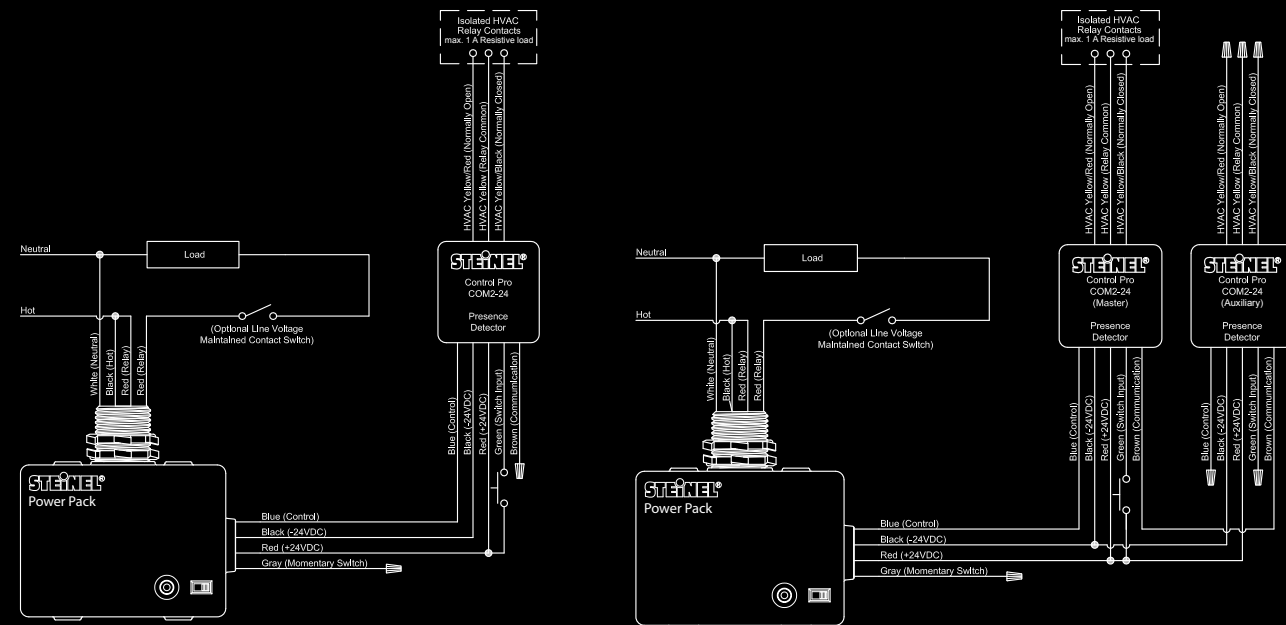


Max 10 sensors can be grouped together in Master / Master or Master / Auxiliary configurations. All sensors must be on the same phase.



## COM2-24

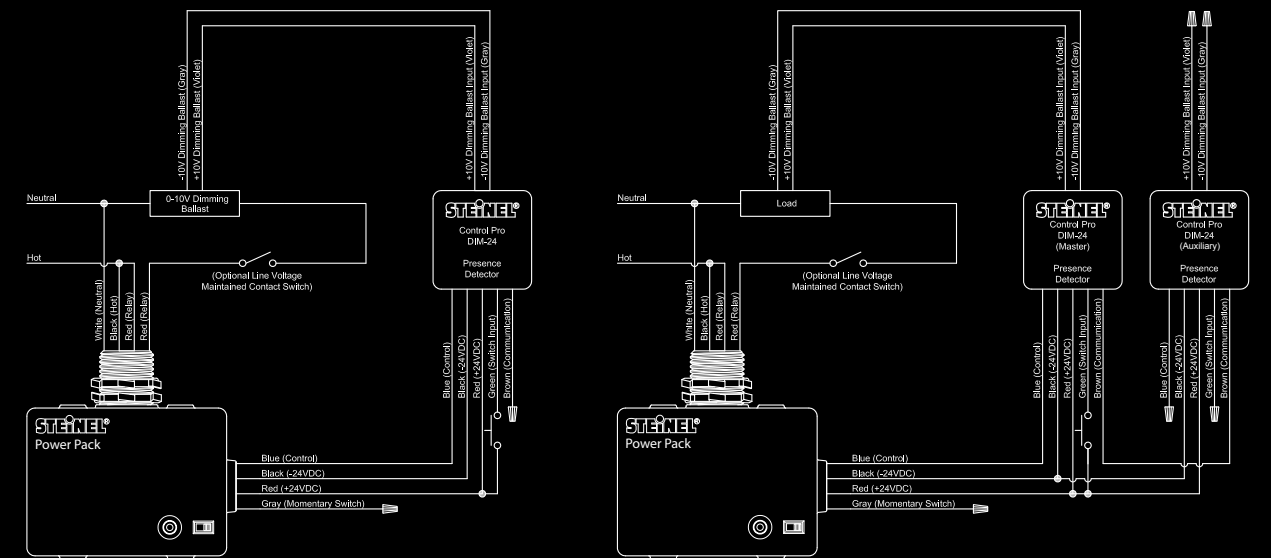
- Voltage** IR Quattro HD/IR Quattro/US Quattro/US Hallway/US Oneway/DT Quattro: 18-24 VDC/VAC (34mA)  
**IR CM:** 18-24 VDC/VAC (29mA)  
**DT CM:** 18-24 VDC/VAC (40mA)
- Load Rating** control output (blue) - 1 A @ 30 VAC/VDC  
 HVAC dry contacts: Common (yellow)  
 -Normally open (yellow/red) 1 A @ 30 VAC/VDC  
 -Normally closed (yellow/black) 1 A @ 30 VAC/VDC  
 (IR CM & DT CM = 24 VAC/VDC)
- Time Setting** **control output** 30 sec. - 30 min.  
 pulse mode (approx. 2 sec. 'ON' 8 sec. 'OFF') - for time delay relay  
 IQ mode (automatic adjustment to the usage profile)  
**HVAC dry contacts:** 0 sec. - 10 min. switch 'ON' delay  
 1 min. - 2 hrs. stay 'ON' time (1 min. - 30 min. for IR CM and DT CM)  
 auto-HVAC mode



18 AWG wire is recommended for low voltage sensor & power pack connection.  
**Note:** Power Pack must be in Auto mode.

## DIM

- Voltage** IR Quattro HD/IR Quattro/US Quattro/US Hallway/US Oneway/DT Quattro: 18-24 VDC/VAC (46mA)  
**IR CM:** 18-24 VDC/VAC (27mA)  
**DT CM:** 18-24 VDC/VAC (39mA)
- Load Rating** control output (blue) 1 A @ 30 VAC/VDC  
 1 - 10 volt dimming output (purple & gray)  
 100 mA, max. 50 (1 - 10 V electronic dimming ballasts)  
 (IR CM & DT CM = 24 VAC/VDC)
- Time Setting** **control output** 30 sec. - 30 min.  
 pulse mode (approx. 2 sec. 'ON' 8 sec. 'OFF') - for time delay relay (not for IR CM & DT CM)  
 IQ mode (automatic adjustment to the usage profile)



18 AWG wire is recommended for low voltage sensor & power pack connection.  
**Note:** Power Pack must be in Auto mode.

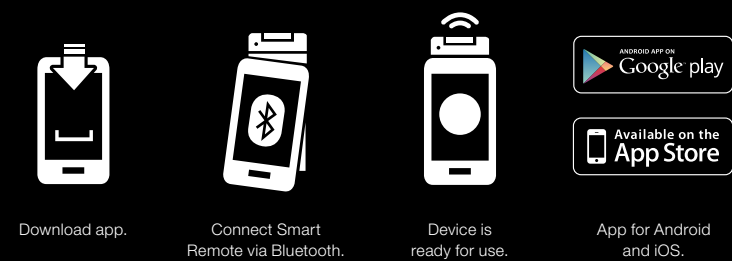
## KNX

- Voltage** via KNX bus voltage
- Settings** by means of ETS software, remote control or bus
- Lighting channels** Light 1 - Light 4: Switching/dimming, switching mode, constant lighting control, stay-ON time
- Basic brightness** Permanently ON, 1 – 255 min, 10 – 50% = all night depending on presence
- HVAC output** Room surveillance, 0 – 255 min.  
 Stay-ON time 1 – 255 min.
- Switch-ON delay** 1 – 255 sec. or 1 – 255 min.
- Presence stay-ON time output**
- Further outputs** Light level, sabotage protection

## Smart Remote

Bluetooth enabled commissioning tool

The STEINEL Smart Remote (commissioning tool) gives the installer the ability to set basic functions of the entire line of the Control Pro Series of sensors via remote control. Simply download the free iOS or Android APP to any smartphone or tablet and connect via Bluetooth to the Smart Remote. Installer / commissioning agent can commission all STEINEL Control Pro and KNX sensors remotely with ease and convenience. The commissioning agent can save and reload commonly used setting profiles for repetitive commissioning of typical room types.



Replaces the following remote controls:  
RC3, RC4, RC6, RC7 and RC8

### Technical Information

**Dimensions (L x W x D)** 4.58 x 2.05 x 1.02 in  
(115 x 52 x 26 mm)

**Operating Voltage** 3 VDC, 2 batteries, type AAA

**Reach** up to 50 ft (15 m)

**Warranty** 5 years

### Products controllable by Smart Remote:

**Presence detectors:** IR Quattro HD,  
IR Quattro, US Quattro, US Hallway,  
US Oneway, DT Quattro, IR CM, DT CM

### Certifications

C-UL-US Listed, RoHS compliant,  
UL 2043 Plenum Rated, CA Energy Code compliant,  
FCC ID: SQK-7BLZXX, IC: 337L-7BLZXX

### Ordering Details

65900 Smart Remote

## Quality, Reliability & Function.

STEINEL offers a wide range of accessories to make installation easier for the installer. The end user also has the ability to turn the lighting ON, OFF and DIM with the Control Pro line of STEINEL sensors with an easy to use remote control.



### IR user remote control RC 4

The RC 4 user remote control gives the occupant the ability to turn lighting 'ON' or 'OFF' with the entire line of Control Pro sensors via remote control.

65320



### IR service remote control RC 8

The RC 8 service remote (commissioning tool) gives the installer the ability to set basic functions of the entire line of Control Pro sensors via remote control.

65800



### IR service remote control RC 6 KNX

The RC 6 KNX service remote (commissioning tool) gives the installer the ability to set basic functions of KNX sensors via remote control.

65600



### IR user remote control RC 7 KNX

The RC 7 KNX user remote control gives the occupant the ability to select scenes and turn lights on, off or dim.

65700



### Wire guard cage

It provides protection from damage, e.g. from balls or vandalism.

65330



### Smart Remote

- Replaces the following remote controls: RC3, RC4, RC6, RC7 and RC8
- App for intuitive control of sensors

65900



### CR-2025 (Battery for RCs)

3 Volt battery for the RC remotes.

65340



### SMA KNX (Surface-mount adapter)

Also featuring four-wire cable entry and a large wiring compartment, the surface-mounting adapter is suitable for surface-mounting the KNX connection options.

11663

		IR Quattro HD	IR Quattro	US Quattro	US Hallway	US Oneway	DT Quattro	IR CM	DT CM
Smart Remote	65900	•	•	•	•	•	•	•	•
Wire guard cage	65330	•	•	•	•	•	•	•	•
IR user remote control RC 4	65320	•	•	•	•	•	•	•	•
IR service remote control RC 8	65800	•	•	•	•	•	•	•	•

		IR Quattro HD KNX	IR Quattro KNX	US Quattro KNX	US Hallway KNX	US Oneway KNX	DT Quattro KNX
Smart Remote	65900	•	•	•	•	•	•
Surface-mount adapter (SMA) KNX	11663	•	•	•	•	•	•
IR service remote control RC 6 KNX	65600	•	•	•	•	•	•
IR user remote control RC 7 KNX	65700	•	•	•	•	•	•

## IS Series

### High performance general purpose ceiling & wall mount occupancy sensors.

The high performance IS Series commercial occupancy sensors utilize passive infrared technology, with multiple pyro arrangements and unique lens design to provide up to 1,416 switching zones. The application specific detection patterns provide 360°, 180° and linear (hallway) coverage capabilities.

#### Applications

For open office spaces, conference rooms, lobbies, class rooms, corridors and data centers.



IS 3360-24



IS 3180-24

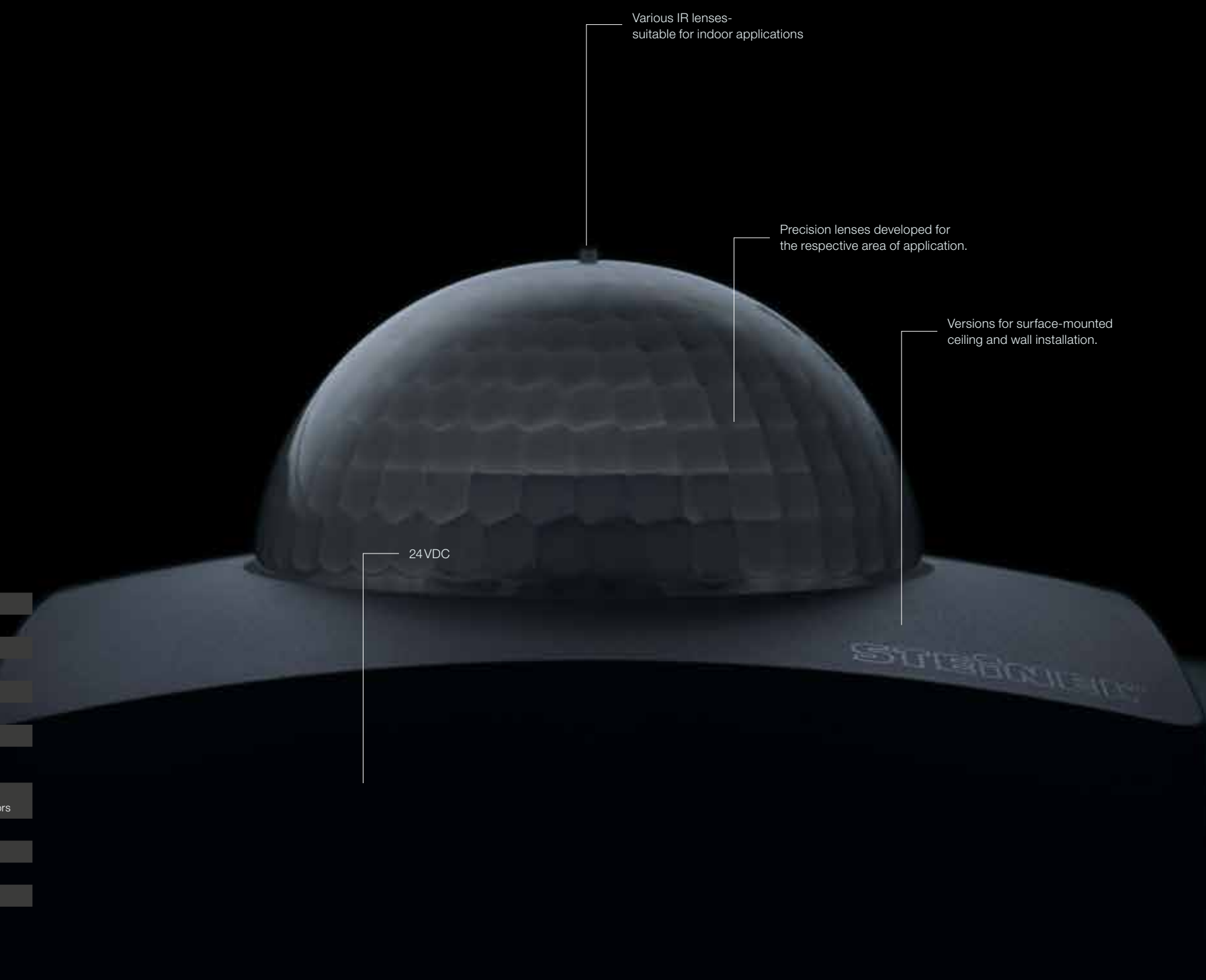


IS 345-24



IS D360-24

	IS 3360-24	IS 3180-24	IS 345-24	IS D360-24
Indoors	•	•	•	•
For the wall		•		
For the ceiling	•			•
For corridors			•	
Installation height	8 - 12ft (2.4 - 3.7 m)	6.6ft (2m)	8 - 12ft (2.4 - 3.7m)	8 - 12ft (2.4 - 3.7 m)
Voltage	24VDC, 12mA	24VDC, 12mA	24VDC, 12mA	24VDC, 19mA
Coverage	360°	180°	Corridor	360°
Reach	max. 65ft (20m)	13 - 26ft or 26 - 66ft (4 - 8m or 8 - 20m)	max. 75.5ft Corridor Coverage	max. 26ft (8m)
Sensors	3 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors	3 dual element infrared pyroelectric detectors
Switching zones	1,416	448	280	720
Corner wall bracket		optional		
Special features		Two adjustable coverage lens		
Page	42	44	46	48



## IS 3360-24

Occupancy Sensor

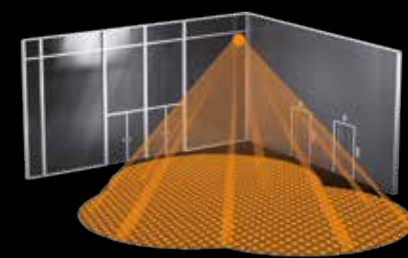
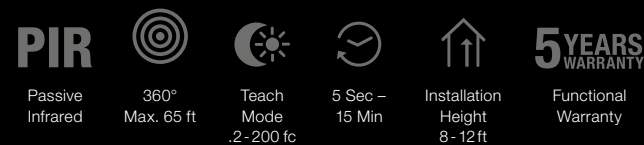
### Wide area 360° passive infrared ceiling mount commercial occupancy sensor.

The IS 3360-24 is part of the STEINEL family of high performance commercial occupancy sensors with 360° of uninterrupted coverage. The IS 3360-24 provides exceptional lighting control in a wide range of spaces.

IS 3360-24 sensors are passive infrared and respond to heat radiated from human body motion. They mount on a ceiling and turn lighting ON either automatically with occupancy or manually using a low voltage wall switch and the manual ON mode of a STEINEL power pack. The sensor switches lighting OFF after a period of time where no occupancy has been detected.

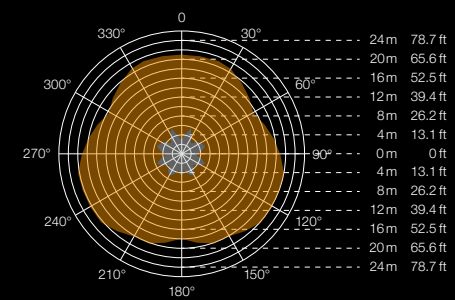
#### Applications

Ceiling mount applications where 360° coverage is needed, open office spaces, conference rooms and lobbies.



#### Key features

- 360° coverage with up to 25 ft radial and 130 ft tangential
- Shrouds allow users to easily customize the coverage area
- 3 pyroelectric detectors with 1,416 switching zones provides highly accurate small motion detection
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- The hold OFF light level feature allows lighting to remain off during daylight regardless of occupancy. User-friendly "teach mode" automatically sets the daylight level, saving time with commissioning.



Shown at 8ft mounting height  
orange = tangential  
gray = radial

#### Coverage

360° horizontal, 180° vertical,  
radial: up to 25 ft (8m)  
tangential: up to 130 ft (40m)  
+ precision adjustment using shrouds

#### Technical Information

**Voltage** 24VDC, 12mA  
**Mounting** ceiling  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 5 seconds to 15 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP20 rated,  
-4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 3 dual element infrared pyroelectric detectors  
**Lens Design** 1,416 switching zones,  
11 detection levels  
**Installation Height** 8 - 12 ft (2.4 - 3.7 m)  
**Dimensions (LxWxD)** 3.74 x 3.74 x 2.56 in  
(95 x 95 x 65 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS Compliant,  
CA Compliant

#### Ordering Details

61133 IS 3360-24 white

#### Accessories

61141 Decorative cover black  
61142 Decorative cover inox (silver)



## IS 3180-24

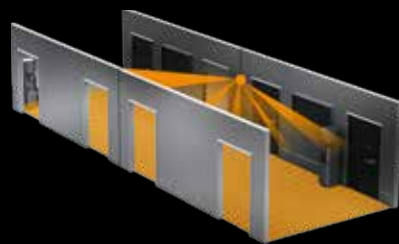
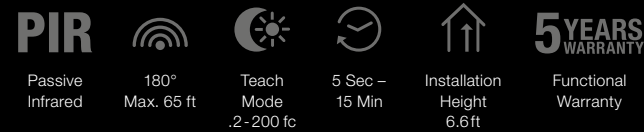
Occupancy Sensor

### 180° view passive infrared wall mount commercial occupancy sensor.

The IS 3180-24 is a wall mount occupancy sensor with 180° field of view. The sensors are passive infrared and respond to heat radiated from human body motion. They turn lighting ON either automatically with occupancy or manually using a low voltage wall switch and the manual ON mode of a STEINEL power pack. The sensor switches lighting OFF after a period of time where no occupancy has been detected.

#### Applications

Wall mount applications where 180° coverage is needed, classrooms, offices and conference rooms.



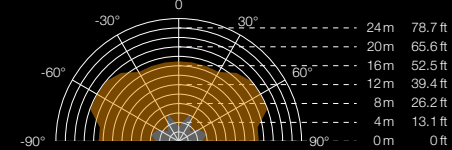
#### Key features

- 180° coverage with up to 12.5 ft radial reach and up to 65 ft tangential reach
- Shrouds allow users to easily customize the coverage area; the moving lens (mechanical adjustment) fine tunes coverage even further
- 2 pyroelectric detectors with 448 switching zones provides sensitive motion detection
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- The hold OFF light level feature allows lighting to remain off during daylight regardless of occupancy. User-friendly "teach mode" automatically sets the daylight level, saving time with commissioning.



Passive Infrared Technology

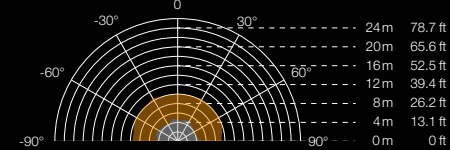
#### 20m max. lens



#### Coverage

180° horizontal, 90° vertical  
 20m max. lens: 26 - 65 ft tangentially (8 - 20m)  
 8m max. lens: max. 13 - 26ft (4 - 8m max)  
 + precision adjustment by repositioning the lens and using shrouds

#### 8m max. lens



Shown at 6.6ft mounting height  
 orange = tangential  
 gray = radial

#### Technical Information

**Voltage** 24VDC, 12mA  
**Mounting** wall  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 5 seconds to 15 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP20 rated, -4°F to +122°F (-20°C to +50°C)  
**Sensors** 2 dual element infrared pyroelectric detectors  
**Lens Design** 448 switching zones, 7 detection levels  
**Installation Height** 6.6ft (2m)  
**Dimensions (LxWxD)** 3.74x3.74x2.56in (95x95x65mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

#### Ordering Details

61131 IS 3180-24 white

#### Accessories

61141 ISDC-B Decorative cover black  
 61142 ISDC-I Decorative cover inox (silver)  
 61143 CWB-B Corner wall bracket black  
 61144 CWB-W Corner wall bracket white

## IS 345-24

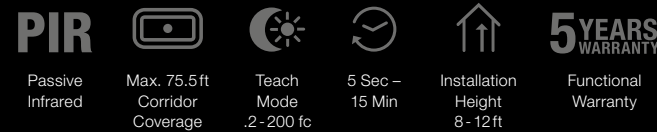
Occupancy Sensor

### Passive infrared ceiling mount corridor occupancy sensor.

The IS 345-24 occupancy sensor has a unique, specially designed detection lens and is ideal for controlling lights in long corridors or aisleways. The sensors are passive infrared and respond to heat radiated from human body motion. They mount on a ceiling and turn lighting ON either automatically with occupancy or manually using a low voltage wall switch and the manual ON mode of a STEINEL power pack. After a period of time where no occupancy has been detected, the sensor switches lighting OFF.

#### Applications

Corridors and ceiling mount applications where hallway coverage is needed.



Passive Infrared

Max. 75.5ft  
Corridor  
Coverage

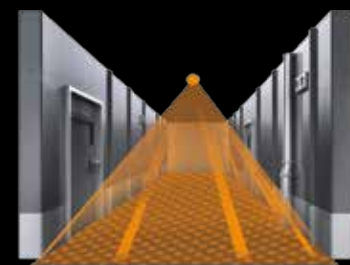
Teach  
Mode  
.2 - 200 fc

5 Sec -  
15 Min

Installation  
Height  
8 - 12ft

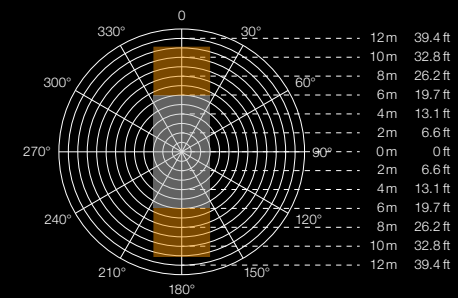
5 YEARS  
WARRANTY

Functional  
Warranty



#### Key features

- Coverage up to 40ft radial reach and 75.5ft tangential reach
- Shrouds allow users to easily customize the coverage area; the moving lens (mechanical adjustment) fine tunes coverage even further
- 2 pyroelectric detectors with 280 switching zones provides sensitive motion detection for corridors
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- The hold OFF light level feature allows lighting to remain off during daylight regardless of occupancy. User-friendly "teach mode" automatically sets the daylight level, saving time with commissioning.



Shown at 8.5ft mounting height  
orange = tangential  
gray = radial

#### Coverage

180° horizontal, 45° vertical  
radial: 39.4 x 19.7 ft (12 x 6m)  
tangential: 75.5 x 19.7 ft (23 x 6m)

#### Technical Information

**Voltage** 24VDC, 12mA  
**Mounting** ceiling  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 5 seconds to 15 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP20 rated,  
-4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 2 dual element infrared pyroelectric detectors  
**Lens Design** 280 switching zones,  
5 detection levels  
**Installation Height** 8 - 12 ft (2.4 - 3.7 m)  
**Dimensions (L x W x D)** 3.74 x 3.74 x 2.56 in  
(95 x 95 x 65 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS Compliant,  
CA Compliant

#### Ordering Details

61134 IS 345-24 white

#### Accessories

61141 ISDC-B Decorative cover black  
61142 ISDC-I Decorative cover inox (silver)

## IS D360-24

Occupancy Sensor

### Sleek 360° recessed ceiling mount passive infrared occupancy sensor.

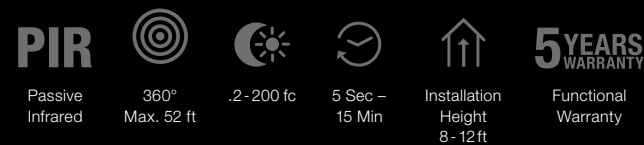
The IS D360-24 are highly sensitive recessed ceiling mount occupancy sensors for indoor use. The sensor's dimensions are the same as those of a MR16 lamp and fit commercially available MR16 fitting frames. The sensors are passive infrared and responds to heat radiated from human body motion. They mount on a ceiling and turn lighting ON either automatically with occupancy or manually using a low voltage wall switch and the manual ON mode of a STEINEL power pack. After a period of time where no occupancy has been detected, the sensor switches lighting OFF.

#### Applications

Architecturally pleasing recessed ceiling mount for offices, conference rooms, vestibules, break rooms and a plenum areas.



Passive Infrared Technology



Passive Infrared

360°  
Max. 52 ft

.2 - 200 fc

5 Sec -  
15 Min

Installation  
Height  
8 - 12 ft

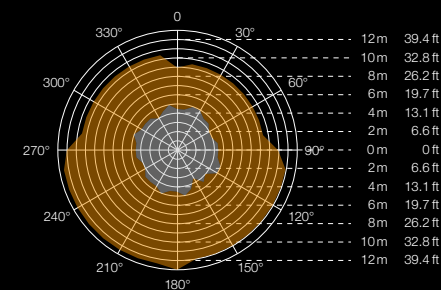
5 YEARS  
WARRANTY

Functional  
Warranty



#### Key features

- 360° coverage with up to 13 ft (4 m) radial reach and 26 ft (8 m) tangential reach
- Snap-on shrouds allow users to easily customize the coverage area
- 3 pyroelectric detectors with 720 switching zones provides highly accurate small motion detection
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- The hold OFF light level feature allows lighting to remain off during daylight regardless of occupancy



Shown at 9.2ft mounting height  
orange = tangential  
gray = radial

#### Coverage

360° with 180° angle of aperture,  
radial: up to 13 ft (4 m)  
tangential: up to 26 ft (8 m)

#### Technical Information

**Voltage** 24VDC, 19mA  
**Mounting** recessed ceiling  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 5 seconds to 20 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP20 rated,  
-4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 3 dual element infrared pyroelectric detectors  
**Lens Design** 720 switching zones,  
10 detection levels  
**Installation Height** 8 - 12 ft (2.4 - 3.7 m)  
**Dimensions (LxWxD)** Ø 3.23 x 3.27 in  
(Ø 82 x 83 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS Compliant,  
CA Compliant, UL 2043

#### Ordering Details

61136 IS D360-24

## Accessories

Occupancy Sensors

### Decorative covers & corner mount adaptors.

The IS series ships standard in white and is available in black and inox as accessories sold separately. The decorative covers fit on the IS 345-24, IS 3180-24 and the IS 3360-24.

The corner mount adaptors fit the IS 3180-24. They are available in white and black.



**CWB-B**  
Corner Wall Bracket  
Black

61143



**CWB-W**  
Corner Wall Bracket  
White

61144



**ISDC-B**  
Decorative Cover  
Black

61141



**ISDC-I**  
Decorative Cover  
Inox (silver)

61142

		IS 3360-24	IS 3180-24	IS 345-24
Black Corner Wall Bracket (CWB-B)	61143		•	
White Corner Wall Bracket (CWB-W)	61144		•	
Black Decorative Cover (ISDC-B)	61141	•	•	•
Inox (silver) Decorative Cover (ISDC-I)	61142	•	•	•

## Power Packs

### Heavy-duty full-featured lighting and receptacle control.

STEINEL offers a wide range of full-featured power packs capable of controlling up to a 20 amp load and provide 24 VDC Class 2 power suitable for parallel connection to STEINEL low voltage sensors and other control devices. The power packs switch load(s) ON and OFF in response to signals from controls and contain a Mode Switch to select either manual ON or automatic ON operation. In manual ON mode, occupants operate a low voltage switch to turn lights ON. The TR 150 and TR 250 include force ON and force OFF control inputs allowing for integration with a building automation system for time of day control or load shed applications and contains an isolated relay for use with HVAC controls and other low voltage devices. The TR 100 is available in models with automatic ON (-A) and manual ON only (-M) operation.



	TR 100	TR 100-A	TR 100-M	TR 200
Item No.	63101	63103	63102	55490
Output	24VDC +/- 5% 250mA (class 2)	24 VDC +/- 5% 250 mA (class 2)	24 VDC +/- 5% 250 mA (class 2)	24 VDC +/- 5% 270 mA (class 2)
Load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240 VAC, 50/60Hz 15A @ 120 VAC, 50/60Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240 VAC, 50/60 Hz 15A @ 120 VAC, 50/60 Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240 VAC, 50/60Hz 15A @ 120 VAC, 50/60Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 20A @ 120V - Electronic Ballasts / LED 16A @ 277V - Electronic Ballasts / LED 1 hp @ 120VAC, 50/60Hz 2 hp @ 240/277 VAC, 50/60Hz 20A @ 120V receptacle load
Isolated relay for use with HVAC controls and other low voltage devices	-	-	-	-
Dimensions (LxWxD)	2.4x3.2x1.5 in (60x81 x39mm)	2.4x3.2x1.5 in (60x81 x39mm)	2.4x3.2x1.5 in (60x81 x39mm)	3x3.8x1.5 in (75x 96 x 39mm)
Switching Mode	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor <b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a momentary switch. The load(s) automatically switch OFF in response to an occupancy sensor	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor	<b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a momentary switch. The load(s) automatically switch OFF in response to an occupancy sensor	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor <b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a switch. The load(s) automatically switch OFF in response to an occupancy sensor
Pages	54	54	54	54

	TR 150	TR 150-A	TR 150-M	TR 250
Item No.	63205	63207	63206	55791
Output	24 VDC +/- 5% 250 mA (class 2)	24 VDC +/- 5% 250 mA (class 2)	24 VDC +/- 5% 250 mA (class 2)	24 VDC +/- 5% 270 mA (class 2)
Load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240VAC, 50/60Hz 15A @ 120VAC, 50/60Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240VAC, 50/60Hz 15A @ 120 VAC, 50/60Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 1 hp @ 120-240 VAC, 50/60Hz 15A @ 120 VAC, 50/60Hz - receptacle load	20A @ 120/230/277 VAC 50/60Hz - ballast and incandescent load 20A @ 120V - Electronic Ballasts / LED 16A @ 277V - Electronic Ballasts / LED 1 hp @ 120VAC, 50/60Hz 2 hp @ 240/277 VAC, 50/60Hz 20A @ 120V receptacle load
Isolated relay for use with HVAC controls and other low voltage devices	single pole, double-throw with NO, NC and common outputs; rated 1A @ 30 VAC/VDC	single pole, double-throw with NO, NC and common outputs; rated 1A @ 30 VAC/VDC	single pole, double-throw with NO, NC and common outputs; rated 1A @ 30 VAC/VDC	single pole, double-throw with NO, NC and common outputs; rated 1A @ 30 VAC/VDC
Dimensions (LxWxD)	3.2x2.4x1.5 in (81 x60x39mm)	3.2x2.4x1.5 in (81 x60x39mm)	3.2x2.4x1.5 in (81 x60x39mm)	3x3.8x1.5 in (75x 96 x 39mm)
Switching Mode	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor <b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a momentary switch. The load(s) automatically switch OFF in response to an occupancy sensor	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor	<b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a momentary switch. The load(s) automatically switch OFF in response to an occupancy sensor	Switching Mode adjustable: <b>Automatic ON / OFF</b> switches the load(s) ON and OFF in response to an occupancy sensor <b>Manual ON / Automatic OFF</b> switches the load(s) ON only when the occupant manually presses a switch. The load(s) automatically switch OFF in response to an occupancy sensor
Pages	56	56	56	56



## TR100/TR100-A/TR100-M/TR200

Power Pack

24 volt power supply and 20 amp relay.  
Covers a variety of application.

The TR 100 and TR 200 control up to a 20 amp load and are 24 volt power supplies that provide power to STEINEL low voltage occupancy sensors and other control devices. They are Class 2 output power supplies, suitable for parallel interconnection. The power packs switch the load(s) ON and OFF in response to signals from the control devices. The TR 100 and TR 200 power pack contains a Mode Switch to select either manual ON or automatic ON operation. In manual ON mode, occupants must operate a low voltage switch to turn lights ON. The TR 100-A is automatic ON only and the TR 100-M is manual ON only and contain no Mode Switch.



<b>120/230/ 277 V</b>	<b>UL 2043</b>	<b>IP20</b>	<b>20 Amp 1 Hp</b>	<b>Manual Auto/On</b>	<b>5 YEARS WARRANTY</b>
Voltage	Plenum Rated	Rated	Load	Operating Modes	Functional Warranty

### Key features

- LED status indicator
- Switching is performed at, or close to, the zero-cross of the AC waveform in order to improve relay performance
- 1/2 inch threaded nipple and two lock nuts are used to secure to a standard 1/2" knockout
- Low voltage momentary switch input allows for manual control in automatic or manual mode
- (TR 100) Power supply provides up to 250 mA of 24VDC to low voltage controls

### Additional features (TR 200)

- Power supply provides 270 mA of 24 VDC
- "COM-Link" communication with Control Pro sensors
- Maintained or momentary switch input
- 8 seconds to 30 minute time delay
- "Fail safe" latching relay
- 20 Amp receptacle control

### Technical Information

**Voltage** 120/230/277VAC, 50/60Hz  
**Output** TR 100 24VDC +/- 5% 250mA (class2)  
**Load** 20 A @ 120/230/277VAC 50/60Hz  
 - ballast and incandescent load  
 1 hp @ 120-240VAC, 50/60Hz  
 15 A @ 120VAC, 50/60 Hz - receptacle load

TR 200 24VDC +/-5% 270mA (class2)  
**Load** 20A @ 120/230/277 VAC 50/60Hz  
 - ballast and incandescent load  
 20A @ 120V - Electronic Ballasts / LED  
 16A @ 277V - Electronic Ballasts / LED  
 1 hp @ 120VAC, 50/60Hz  
 2 hp @ 240/277 VAC, 50/60Hz  
 20 A @ 120V receptacle load  
**Environment** IP20 rated,  
 -4 °F to +130 °F (-20 °C to +55 °C)

**Dimensions (LxWxD)** TR 100 2.4x3.2x1.5in  
 (60x81 x39mm)  
 TR 200 3x3.8x1.5in (75x96x39mm)

**Threaded Nipple Dimensions**  
 .83x.83in (21x21 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant,  
 CA Compliant, UL 2043 Plenum Rated

### Ordering Details

63101 TR 100  
 63103 TR 100-A  
 63102 TR 100-M  
 55490 TR 200

## TR 150 / TR 150-A / TR 150-M / TR 250

Power Pack

Full featured power packs.  
Class 2 isolated relays & force ON/OFF.

The TR 150 and TR 250 are full featured power packs capable of controlling up to a 20 amp load with an additional isolated normally open normally closed relay for signalling HVAC or other control devices. Force ON and Force OFF control inputs allow for integration with a building automation system for time of day control or load shed applications. The 24 volt power supply provides power to STEINEL low voltage occupancy sensors and other control devices. They are Class 2 output power supplies, suitable for parallel interconnection. The power packs switch the load(s) ON and OFF in response to signals from the control devices. The TR 150 and TR 250 power pack contains a Mode Switch to select either manual ON or automatic ON operation. In manual ON mode, occupants must operate a low voltage switch to turn lights ON. The TR 150-A is automatic ON only and the TR 150-M is manual ON only and contain no mode switch.



<b>120/230/ 277 V</b>	<b>UL 2043</b>	<b>IP20</b>	<b>20 Amp 1 Hp</b>	<b>1 Amp@ 30V NO/NC</b>	<b>5 YEARS WARRANTY</b>
Voltage	Plenum Rated	Rated	Load	Isolated Relay	Functional Warranty

### Key features

- LED status indicator
- Built-in isolated relay for use with HVAC controls and other low voltage devices
- Force ON and force OFF control inputs allow for integration with a building automation system for time of day control or load shed applications.
- Switching is performed at, or close to, the zero-cross of the AC waveform in order to improve relay performance
- 1/2 inch threaded nipple and two lock nuts are used to secure to a standard 1/2" knockout
- Low voltage momentary switch input allows for manual control in automatic or manual mode
- (TR 150) Power supply provides up to 250 mA of 24VDC to low voltage controls

### Additional features (TR 250)

- Power supply provides 270 mA of 24 VDC
- "COM-Link" communication with Control Pro sensors
- Maintained or momentary switch input
- 8 seconds to 30 minute time delay
- "Fail safe" latching relay
- 20 Amp receptacle control

### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Output** TR 150 24VDC +/- 5% 250mA (class2)  
**Load** 20A @ 120/230/277 VAC 50/60Hz  
 - ballast and incandescent load  
 1 hp @ 120-240VAC, 50/60Hz  
 15 A @ 120VAC, 50/60Hz - receptacle load

TR 250 24VDC +/-5% 270mA (class2)  
**Load** 20A @ 120/230/277 VAC 50/60Hz  
 - ballast and incandescent load  
 20A @ 120V - Electronic Ballasts / LED  
 16A @ 277V - Electronic Ballasts / LED  
 1 hp @ 120VAC, 50/60Hz  
 2 hp @ 240/277 VAC, 50/60Hz  
 20 A @ 120V receptacle load  
**Isolated Relay** Single pole,  
 double-throw with NO, NC and common  
 outputs; rated 1 A @ 30 VAC/VDC

### Environment

IP20 rated,  
 -4°F to +130°F (-20°C to +55°C)  
**Dimensions (LxWxD)** TR 150 2.4x3.2x1.5 in  
 (60x81x39mm)  
 TR 250 3x3.8x1.5 in (75x96x39mm)  
**Threaded Nipple Dimensions**  
 .83x.83 in (21x21 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant,  
 CA Compliant, UL 2043 Plenum Rated

### Ordering Details

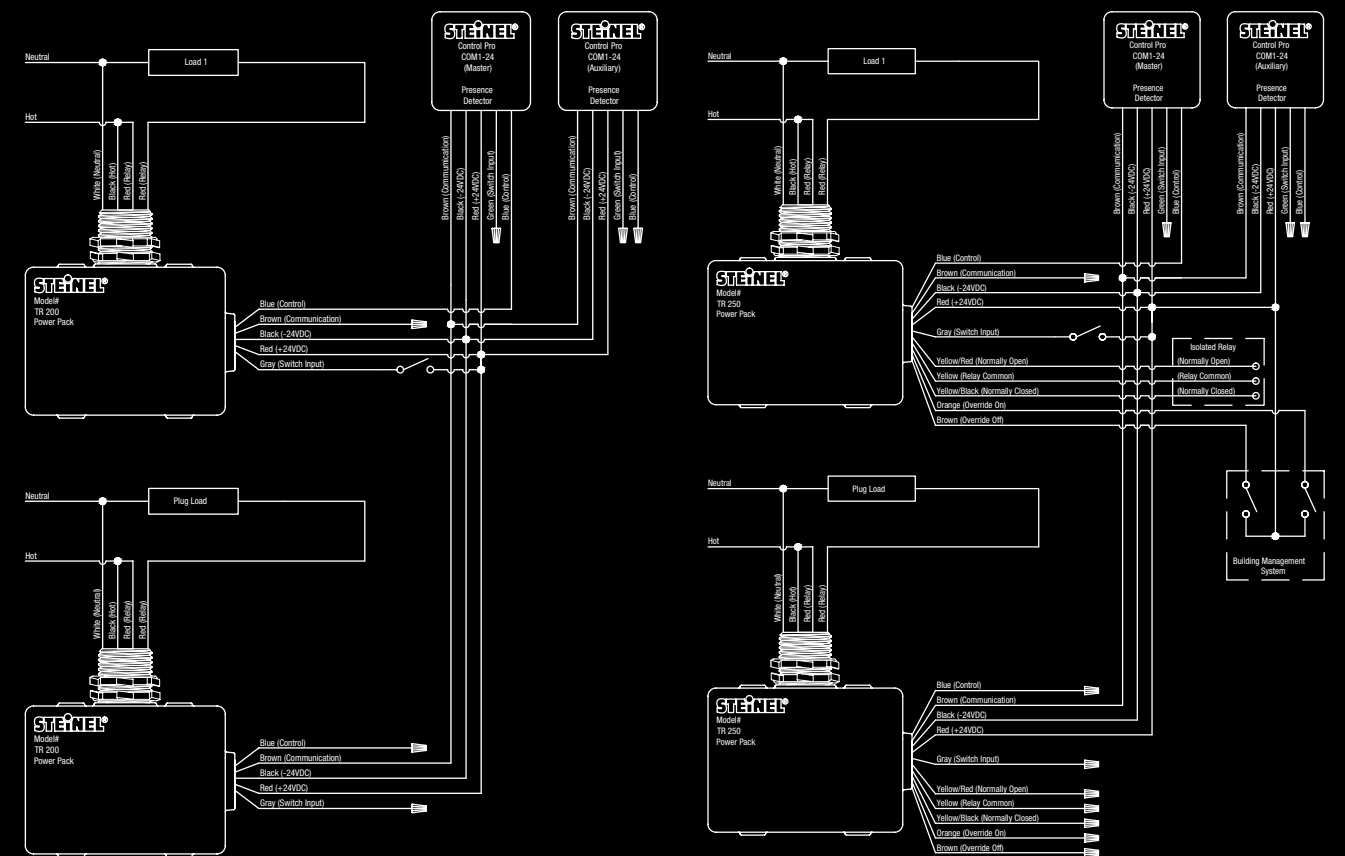
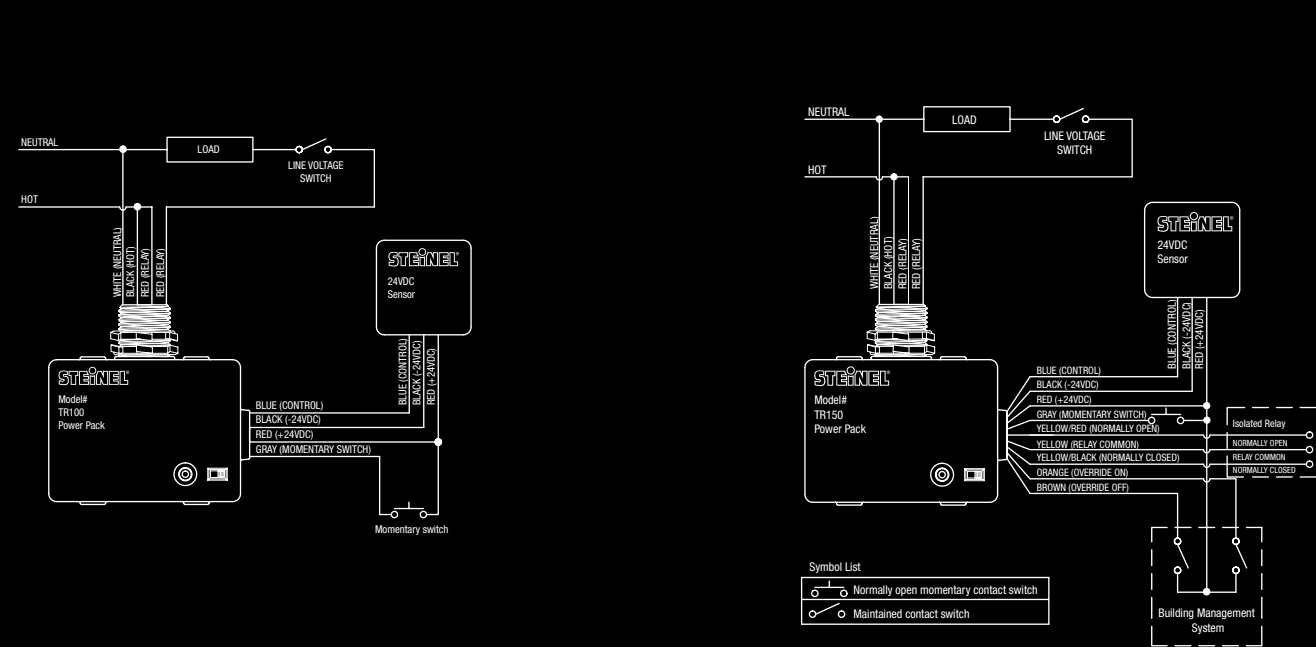
63205 TR 150  
 63207 TR 150-A  
 63206 TR 150-M  
 55491 TR 250

# Wiring

Power Packs

The Power Pack to select depends on the applications that are planned. STEINEL offers a variety of models: TR 100, TR 100-A, TR 100-M, TR 200, TR 150, TR 150-A, TR 150-M, TR 250. Power Pack devices can be used for operating and controlling multiple switch legs and circuits. They can be used to control lighting, motor loads and plug loads.

For additional wiring diagrams please view our website at [www.steinel.net](http://www.steinel.net)



## Wallswitches

Innovative.  
True Multi-Way Switching.

STEINEL wall switch occupancy and vacancy sensors are available in infrared, ultrasonic and dual tech versions. STEINEL's commercial switches feature all the sequence of operation settings that are needed for controlling a typical office or small conference room. The new innovative "SwitchLink" feature provides true multi-way switching and the ability to expand coverage in the desired control zone.

### Applications

The typical application is for small office, conference, storage closet and break rooms.



	IR WLS/IR VS	US WLS/US VS	DT WLS/DT VS	IR WLS/IR VS DIM	US WLS/US VS DIM	DT WLS/DT VS DIM
<b>Sensor</b>	Passive Infrared	Ultrasonic	Ultrasonic + Passive Infrared	Passive Infrared	Ultrasonic	Ultrasonic + Passive Infrared
<b>Detection zones</b>	Minor Motion: 21 x 18 ft max. Radial: 24 ft max. Tangential: 54 ft max.	Minor Motion: 18 x 12 ft max. Radial: 24 ft max. Tangential: 24 ft max.	Minor Motion: 18 x 12 ft max. Radial: 24 ft max. Tangential: 54 ft max.	Minor Motion: 21 x 18 ft max. Radial: 24 ft max. Tangential: 54 ft max.	Minor Motion: 18 x 12 ft max. Radial: 24 ft max. Tangential: 24 ft max.	Minor Motion: 18 x 12 ft max. Radial: 24 ft max. Tangential: 54 ft max.
<b>Installation height</b>	4 ft (1.2m)	4 ft (1.2m)	4 ft (1.2m)	4 ft (1.2m)	4 ft (1.2m)	4 ft (1.2m)
<b>Page</b>	62	64	66	68	70	72

## IR WLS/IR VS

Wallswitch

### Passive infrared. Occupancy & vacancy sensors.

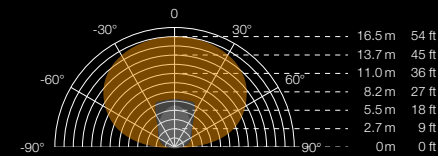
The IR WLS / IR VS are line voltage, Passive Infrared (PIR) wall switch occupancy/vacancy sensors intended to control lighting in commercial spaces. PIR is used where the sensor will have a clear view of the occupants in the desired coverage area. The IR WLS hold OFF photocell daylight option will keep the lighting load off if the light level is greater than the threshold level setting. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

#### Applications

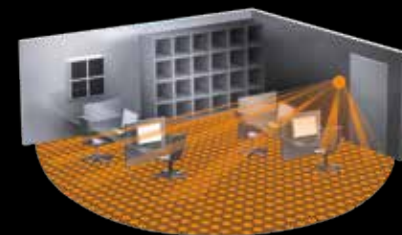
The typical application is for small office, conference, storage closet and break rooms. For best performance use this sensor in enclosed spaces no larger than 18' x 15'.



<b>PIR</b>					<b>5 YEARS WARRANTY</b>
Passive Infrared	21 ft Minor Motion 54 ft Tangential	Teach Mode 8-200 fc	IQ/Test 5/15/ 30 Min	Installation Height 4 ft	Functional Warranty



Shown at 4ft mounting height  
orange = tangential  
dark gray = radial  
light gray = minor motion



#### Key features

- PIR (passive infrared)
- Line voltage lighting control (120/230/277 VAC, 50/60 Hz)
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others
- "Switch Link" communication allows for up to 4 sensors to be grouped together
- IQ Mode dynamically adjusts the 'ON' time delay by learning individual room occupancy

#### Coverage

- 1. Minor Motion:**  
max. 21 x 18 ft (378sq.ft.)  
max. 6.5x5.5m (36sq.m.)
- 2. Tangential:**  
max. 54 ft (4,500sq.ft.)  
max. 16.5 m (628sq.m.)
- 3. Radial:**  
max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)

#### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0-800 watts @ 120/230/277 VAC, 50/60Hz tungsten, magnetic or electronic ballast - 1/6 hp  
0-600 watts @ 120/230/277 VAC, 50/60Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Sensing Technology** Passive infrared  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 8-200 fc (80-2,000lux) (only IR WLS)  
**Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)  
**Coverage** 180°  
**Installation Height** 4 ft (1.2m)  
**Dimensions (LxWxD)** 4.13x1.74x1.78in (105x44.1x45.1 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS compliant, California Compliant

#### Ordering Details

66100 IR WLS 1-W	66130 IR WLS 2-W white
66110 IR WLS 1-LA	66140 IR WLS 2-LA light almond
54565 IR WLS 1-BK	54568 IR WLS 2-BK black
54566 IR WLS 1-GY	54567 IR WLS 2-GY gray
66102 IR VS 1-W	66132 IR VS 2-W white
66112 IR VS 1-LA	66142 IR VS 2-LA light almond
54743 IR VS 1-BK	54745 IR VS 2-BK black
54744 IR VS 1-GY	54746 IR VS 2-GY gray



## US WLS/US VS

Wallswitch

### 40 kHz ultrasonic. Occupancy & vacancy sensors.

The US WLS / US VS is a line voltage, Ultrasonic (40 kHz) wall switch occupancy sensor intended to control lighting in commercial spaces. Ultrasonic is used where the sensor will not have a clear line of site of the occupants in the desired coverage area. The US WLS hold OFF photocell daylight option will keep the lighting load off when the light level is greater than the threshold level setting. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

#### Applications

The typical application is for small offices, restrooms with two stalls and utility/storage rooms. For best performance use this sensor in enclosed spaces no larger than 15' x 15'.

40 kHz Ultrasonic Technology



**40 kHz**

Ultrasonic



21 ft Minor Motion  
54 ft Tangential



Teach Mode  
8 - 200 fc



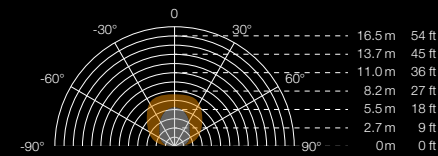
IQ/Test  
5/15/  
30 Min



Installation  
Height 4 ft

**5 YEARS**  
WARRANTY

Functional  
Warranty



Shown at 4ft mounting height  
orange = tangential & radial  
gray = minor motion



white light almond black gray



#### Key features

- 40 kHz ultrasonic wall switch occupancy sensor
- Adjustable ultrasonic reach setting from 25 % to 100 %
- Line voltage lighting control (120/230/277 VAC, 50/60Hz)
- 180° coverage pattern
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others

#### Coverage

- 1. Minor Motion:**  
max. 18 x 12 ft (216 sq.ft.)  
max. 5.5 x 3.7 m (20 sq.m.)
- 2. Tangential:**  
max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)
- 3. Radial:**  
max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)

#### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0 - 800 watts @ 120/230/277 VAC, 50/60Hz tungsten, magnetic or electronic ballast - 1/6 hp  
 0 - 600 watts @ 120/230/277 VAC, 50/60Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Sensing Technology** ultrasonic 40kHz  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 8 - 200 fc (80 - 2,000lux) (only US WLS)  
**Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)  
**Coverage** 180°  
**Installation Height** 4 ft (1.2m)  
**Dimensions (LxWxD)** 4.13x1.74x1.78in (105x44.1x45.1 mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS compliant, California Compliant

#### Ordering Details

66160 US WLS 1-W	66190 US WLS 2-W white
66170 US WLS 1-LA	66200 US WLS 2-LA light almond
54721 US WLS 1-BK	54730 US WLS 2-BK black
54722 US WLS 1-GY	54731 US WLS 2-GY gray
66162 US VS 1-W	66192 US VS 2-W white
66172 US VS 1-LA	66202 US VS 2-LA light almond
54747 US VS 1-BK	54752 US VS 2-BK black
54748 US VS 1-GY	54753 US VS 2-GY gray

## DT WLS/DT VS

Wallswitch

Dual technology, passive infrared & ultrasonic.  
Commercial grade occupancy & vacancy sensors.


The DT WLS / DT VS are line voltage, Dual Technology (PIR & ultrasonic) wall switch occupancy / vacancy sensors intended to control lighting in commercial spaces. The combination of both technologies enhances occupancy detection in difficult applications. DIP switch adjustable technology options to initiate the load ON and maintain the load ON with either or both technologies. The DT WLS hold off photocell daylight option will keep the lighting load OFF when the light level is greater than the threshold level setting. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

### Applications


The typical application is for small offices, conference rooms and break rooms. For best performance use this sensor in enclosed spaces no larger than 20' x 16'.

**DUAL  
TECH**


Passive Infrared  
Ultrasonic




21 ft Minor Motion  
54 ft Tangential



Teach  
Mode  
8 - 200 fc



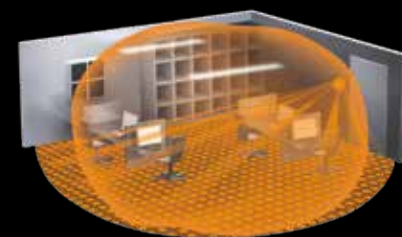
IQ/Test  
5/15/  
30 Min



Installation  
Height 4 ft

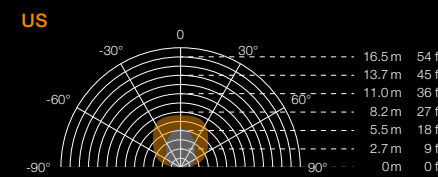
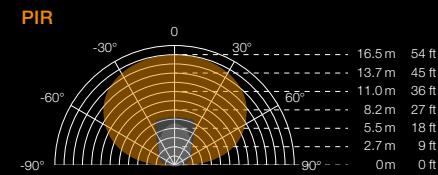
**5 YEARS  
WARRANTY**

Functional  
Warranty



### Key features

- PIR & 40 kHz ultrasonic wall switch occupancy sensor
- Trigger mode settings enable what sensing technologies are used to initially turn the load ON and what technologies are used to keep the load ON
- Adjustable ultrasonic reach setting from 25% to 100%
- Line voltage lighting control (120/230/277 VAC, 50/60 Hz)
- 180° coverage pattern



Shown at 4 ft mounting height

**PIR**  
orange = tangential  
dark gray = radial  
light gray = minor motion  
**US**  
orange = tangential & radial  
gray = minor motion



### Coverage

- 1. Minor Motion:**  
PIR: max. 21 x 18 ft (378 sq.ft.)  
max. 6.5 x 5.5 m (36 sq.m.)  
US: max. 18 x 12 ft (216 sq.ft.)  
max. 5.5 x 3.7 m (20 sq.m.)
- 2. Tangential:**  
PIR: max. 54 ft (4,500 sq.ft.)  
max. 16.5 m (628 sq.m.)  
US: max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)
- 3. Radial:**  
PIR/US: max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)

### Technical Information

**Voltage** 120/230/277 VAC, 50/60 Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0 - 800 watts @ 120/230/277 VAC, 50/60 Hz tungsten, magnetic or electronic ballast - 1/6 hp  
0 - 600 watts @ 120/230/277 VAC, 50/60 Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Sensing Technology** Passive infrared & ultrasonic 40 kHz  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 8 - 200 fc (80 - 2,000 lux) (only DT WLS)  
**Environment** IP20 rated, 32 °F to +104 °F (0 °C to +40 °C)  
**Coverage** 180°  
**Installation Height** 4 ft (1.2 m)  
**Dimensions (LxWxD)** 4.13 x 1.74 x 1.78 in (105 x 44.1 x 45.1 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, California Compliant

### Ordering Details

66220 DT WLS 1-W	66220 DT WLS 2-W white
66230 DT WLS 1-LA	66260 DT WLS 2-LA light almond
54733 DT WLS 1-BK	54741 DT WLS 2-BK black
54734 DT WLS 1-GY	55742 DT WLS 2-GY gray
66222 DT VS 1-W	66252 DT VS 2-W white
66232 DT VS 1-LA	66262 DT VS 2-LA light almond
54754 DT VS 1-BK	54756 DT VS 2-BK black
54755 DT VS 1-GY	54757 DT VS 2-GY gray

## IR WLS DIM /IR VS DIM





Wallswitch

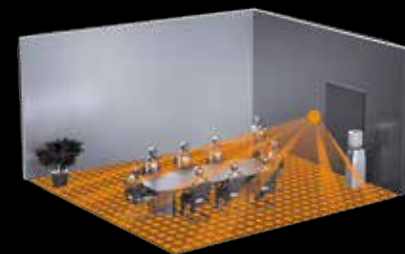
0 - 10 Volt dimming passive infrared.  
Occupancy & vacancy sensor.

The IR WLS DIM / IR VS DIM are line voltage, Passive Infrared (PIR) wall switch occupancy / vacancy sensors with 0-10 volt dimming capability intended to control lighting in commercial spaces. PIR is used where the sensor will have a clear view of the occupants in the desired coverage area. Control options via Smart Remote include photocell force OFF or hold OFF and partial ON or partial OFF capabilities. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

### Applications

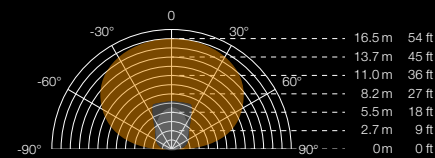
The typical application is for small office, conference, storage closet and break rooms where 0-10 volt dimming is desired. For best performance use this sensor in enclosed spaces no larger than 18' x 15'.

<b>PIR</b>					<b>DIM</b>	<b>5 YEARS WARRANTY</b>
Passive Infrared	21 ft Minor Motion 54 ft Tangential	Teach Mode 1 - 100 fc	IQ/Test 5 /15/ 30 Min	Installation Height 4 ft	0-10 Volt Dimming	Functional Warranty



### Key features

- PIR (passive infrared)
- Available as occupancy (manual / auto ON) or vacancy (manual ON only) sensor
- Line voltage lighting control (120/230/277 VAC, 50/60 Hz) with 0-10 volt dimming
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others
- "Switch Link" communication allows for up to 4 sensors to be grouped together
- Hold OFF or Force OFF light level feature
- Partial ON & Partial OFF control



orange = tangential  
dark gray = radial  
gray = minor motion

### Coverage

- Minor Motion:**  
max. 21 x 18 ft (378sq.ft.)  
max. 6.5 x 5.5m (36sq.m.)
- Tangential:**  
max. 54 ft (4,500sq.ft.)  
max. 16.5 m (628sq.m.)
- Radial:**  
max. 24 ft (904sq.ft.)  
max. 7 m (77sq.m.)

### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0 - 800 watts @ 120/230/277 VAC, 50/60Hz tungsten, magnetic or electronic ballast - 1/6 hp  
 0 - 600 watts @ 120/230/277 VAC, 50/60Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Dimming Output** 0-10 volt (purple & gray) 50mA, max 25 (0-10 electronic dimming ballasts/drivers)  
**Sensing Technology** Passive infrared  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 1-100fc (10-1,000lux) (only IR WLS DIM)  
**Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)  
**Coverage** 180°



**Installation Height** 4 ft (1.2m)  
**Dimensions (L x W x D)** 4.13 x 1.74 x 1.83 in (105 x 44.1 x 46.5 mm)  
**Warranty** 5 years

**Certifications**  
 C-UL-US Listed, RoHS compliant, California Compliant

**Ordering Details**  
 54546 IR WLS DIM-W white  
 54543 IR WLS DIM-LA light almond  
 54545 IR WLS DIM-BK black  
 54720 IR WLS DIM-GY gray  
 54901 IR VS DIM-W white  
 54899 IR VS DIM-LA light almond  
 54900 IR VS DIM-BK black  
 54898 IR VS DIM-GY gray



Button 1: Dim Up  
 Button 2: ON / OFF  
 Button 3: Dim Down

Passive Infrared Technology

## US WLS DIM/US VS DIM





Wallswitch

Energy saving 0-10 Volt dimming 40 kHz ultrasonic.  
Occupancy & vacancy sensor.

The US WLS DIM / US VS DIM are line voltage, Ultrasonic (40 kHz) wall switch occupancy sensors with 0-10 volt dimming capability intended to control lighting in commercial spaces. Ultrasonic is used where the sensor will not have a clear line of site of the occupants in the desired coverage area. Control options via smart remote include photocell force OFF or hold OFF and partial ON or partial OFF capabilities. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

### Applications

The typical application is for small offices, restrooms with two stalls and utility/storage rooms where 0-10 volt dimming is desired. For best performance use this sensor in enclosed spaces no larger than 15' x 15'.

<b>40 kHz</b> Ultrasonic	 21 ft Minor Motion 54 ft Tangential	 Teach Mode 1-100 fc	 IQ/Test 5/15/ 30 Min	 Installation Height 4 ft	<b>DIM</b> 0-10 Volt Dimming	<b>5 YEARS</b> WARRANTY Functional Warranty
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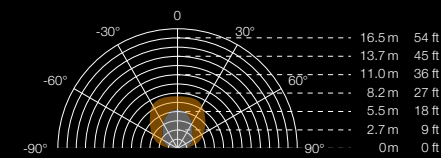
### Key features

- 40 kHz ultrasonic & passive infrared sensor
- Available as occupancy (manual / auto ON) or vacancy (manual ON only) sensor
- Line voltage lighting control (120/230/277 VAC, 50/60Hz) with 0-10 volt dimming
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others
- "Switch Link" communication allows for up to 4 sensors to be grouped together
- Hold OFF or Force OFF light level feature
- Partial ON & Partial OFF control

Button 1: Dim Up  
Button 2: ON / OFF  
Button 3: Dim Down



40 kHz Ultrasonic Technology



Shown at 4ft mounting height  
orange = tangential & radial  
gray = minor motion



white light almond black gray

### Coverage

- 1. Minor Motion:**  
max. 18 x 12 ft (216 sq.ft.)  
max. 5.5 x 3.7 m (20 sq.m.)
- 2. Tangential:**  
max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)
- 3. Radial:**  
max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)

### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0-800 watts @ 120/230/277 VAC, 50/60Hz tungsten, magnetic or electronic ballast - 1/6 hp  
0-600 watts @ 120/230/277 VAC, 50/60Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Dimming Output** 0-10 volt (purple & gray) 50mA, max 25 (0-10 electronic dimming ballasts/drivers)  
**Sensing Technology** ultrasonic 40 kHz  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 1-100 fc (10-1,000 lux) (only US WLS DIM)  
**Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)  
**Coverage** 180°

**Installation Height** 4 ft (1.2 m)  
**Dimensions (L x W x D)** 4.13 x 1.74 x 1.83 in (105 x 44.1 x 46.5 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, California Compliant

### Ordering Details

54841 US WLS DIM-W white  
54843 US WLS DIM-LA light almond  
54840 US WLS DIM-BK black  
54842 US WLS DIM-GY gray  
54905 US VS DIM-W white  
54903 US VS DIM-LA light almond  
54904 US VS DIM-BK black  
54902 US VS DIM-GY gray

## DT WLS DIM / DT VS DIM






Wallswitch

0-10 volt dimming passive infrared & 40 kHz ultrasonic.  
Occupancy & vacancy sensor.

The DT WLS DIM / DT VS DIM are line voltage, Passive Infrared (PIR) and 40 kHz Ultrasonic wall switch occupancy / vacancy sensors with 0-10 volt dimming capability intended to control lighting in commercial spaces. The combination of both technologies enhances occupancy detection in difficult applications. DIP switch adjustable technology options to initiate the load ON and maintain the load ON with either or both technologies. Control options via smart remote include photocell force OFF or hold OFF and partial ON or partial OFF capabilities. The convenient "Switch Link" feature enables up to four sensors to link together for peer to peer grouping achieving expanded detection zones and multiway switching.

### Applications

The typical application is for small offices, conference rooms and break rooms where 0-10 volt dimming is desired. For best performance use this sensor in enclosed spaces no larger than 20' x 16'.

<b>DUAL TECH</b>						<b>DIM</b>	<b>5 YEARS WARRANTY</b>
Passive Infrared Ultrasonic	21 ft Minor Motion 54 ft Tangential	Teach Mode 1 - 100 fc	IQ/Test 5/15/ 30 Min	Installation Height 4 ft	0-10 Volt Dimming	Functional Warranty	



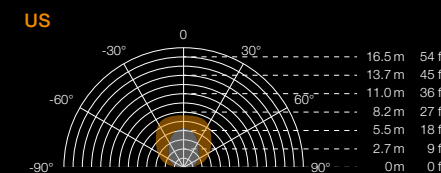
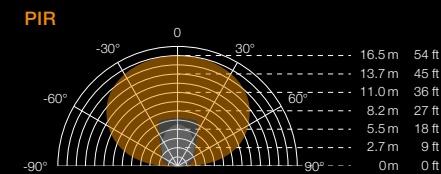
### Key features

- 40 kHz ultrasonic & passive infrared sensor
- Available as occupancy (manual / auto ON) or vacancy (manual ON only) sensor
- Line voltage lighting control (120/230/277 VAC, 50/60Hz) with 0-10 volt dimming
- Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others
- "Switch Link" communication allows for up to 4 sensors to be grouped together
- Hold OFF or Force OFF light level feature
- Partial ON & Partial OFF control

Button 1: Dim Up  
Button 2: ON / OFF  
Button 3: Dim Down



Passive Infrared & 40 kHz Ultrasonic Technology



Shown at 4 ft mounting height

**PIR**  
orange = tangential  
dark gray = radial  
light gray = minor motion  
**US**  
orange = tangential & radial  
gray = minor motion



white light almond black gray

### Coverage

- 1. Minor Motion:**  
PIR: max. 21 x 18 ft (378 sq.ft.)  
max. 6.5 x 5.5 m (36 sq.m.)  
US: max. 18 x 12 ft (216 sq.ft.)  
max. 5.5 x 3.7 m (20 sq.m.)
- 2. Tangential:**  
PIR: max. 54 ft (4,500 sq.ft.)  
max. 16.5 m (628 sq.m.)  
US: max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)
- 3. Radial:**  
PIR/US: max. 24 ft (904 sq.ft.)  
max. 7 m (77 sq.m.)

### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Mounting** single-gang NEMA-style switch box (standard switch box) & decorator-style wall plate by others  
**Load Rating** 0-800 watts @ 120/230/277 VAC, 50/60Hz tungsten, magnetic or electronic ballast - 1/6 hp  
0-600 watts @ 120/230/277 VAC, 50/60Hz CFL or LED electronic ballasts C ≤ 132 µF max.  
**Dimming Output** 1-10 volt (purple & gray) 50mA, max 25 (1-10 electronic dimming ballasts/drivers)  
**Sensing Technology** Passive Infrared & ultrasonic 40 kHz  
**Time Setting** IQ/Test, 5, 15, 30 minutes  
**Light Level Setting** 1-100fc (10-1,000lux) (only DT WLS DIM)  
**Environment** IP20 rated, 32°F to +104°F (0°C to +40°C)

### Coverage 180°

**Installation Height** 4 ft (1.2 m)  
**Dimensions (L x W x D)** 4.13 x 1.74 x 1.83 in (105 x 44.1 x 46.5 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS compliant, California Compliant

### Ordering Details

54551 DT WLS DIM-W white  
54548 DT WLS DIM-LA light almond  
54550 DT WLS DIM-BK black  
54549 DT WLS DIM-GY gray  
54555 DT VS DIM-W white  
54553 DT VS DIM-LA light almond  
54554 DT VS DIM-BK black  
54552 DT VS DIM-GY gray



## Wiring

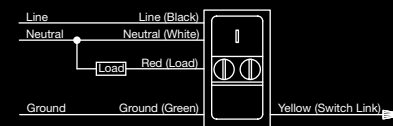
Wallswitches

The Wall Switches to select depends on the applications that are planned. STEINEL offers a variety of models. For supply connection, use wires rated for at least 75°C. The connection of the „Switch Link“ communication wire to additional STEINEL wall switch sensors enables them to be linked together in 3 or 4 way applications. Up to 4 total devices can be linked.

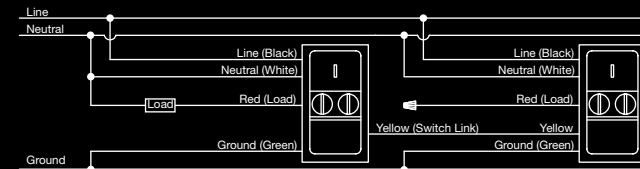
For additional wiring diagrams please view our website at [www.steinel.net](http://www.steinel.net)

## WLS 1 and VS 1 versions

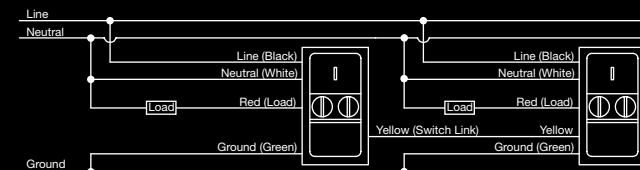
Basic Wiring



(Master / Auxiliary) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



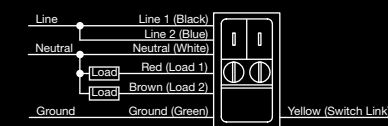
(Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



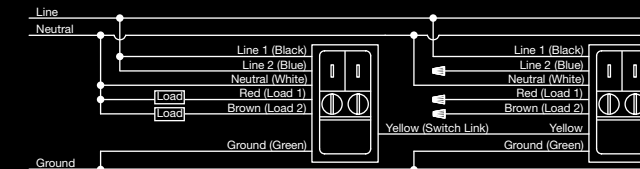
Note: For supply connection, use wires rated for at least 75°C

## WLS 2 and VS 2 versions

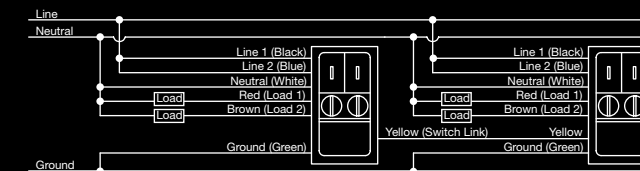
Basic Wiring



(Master / Auxiliary) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"

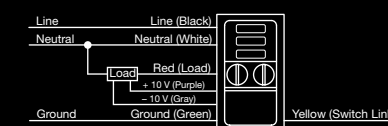


(Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"

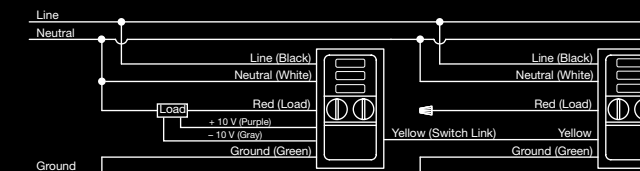


## WLS DIM and VS DIM versions

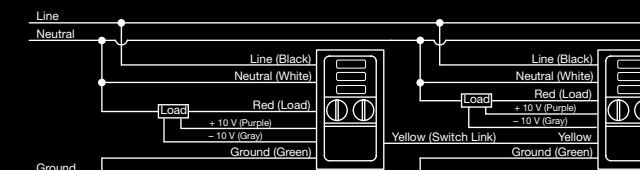
Basic Wiring



(Master / Auxiliary) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



(Master / Master) Three-way Wiring - up to maximum 4 sensors can be grouped via "Switch Link"



## High Bay Sensors

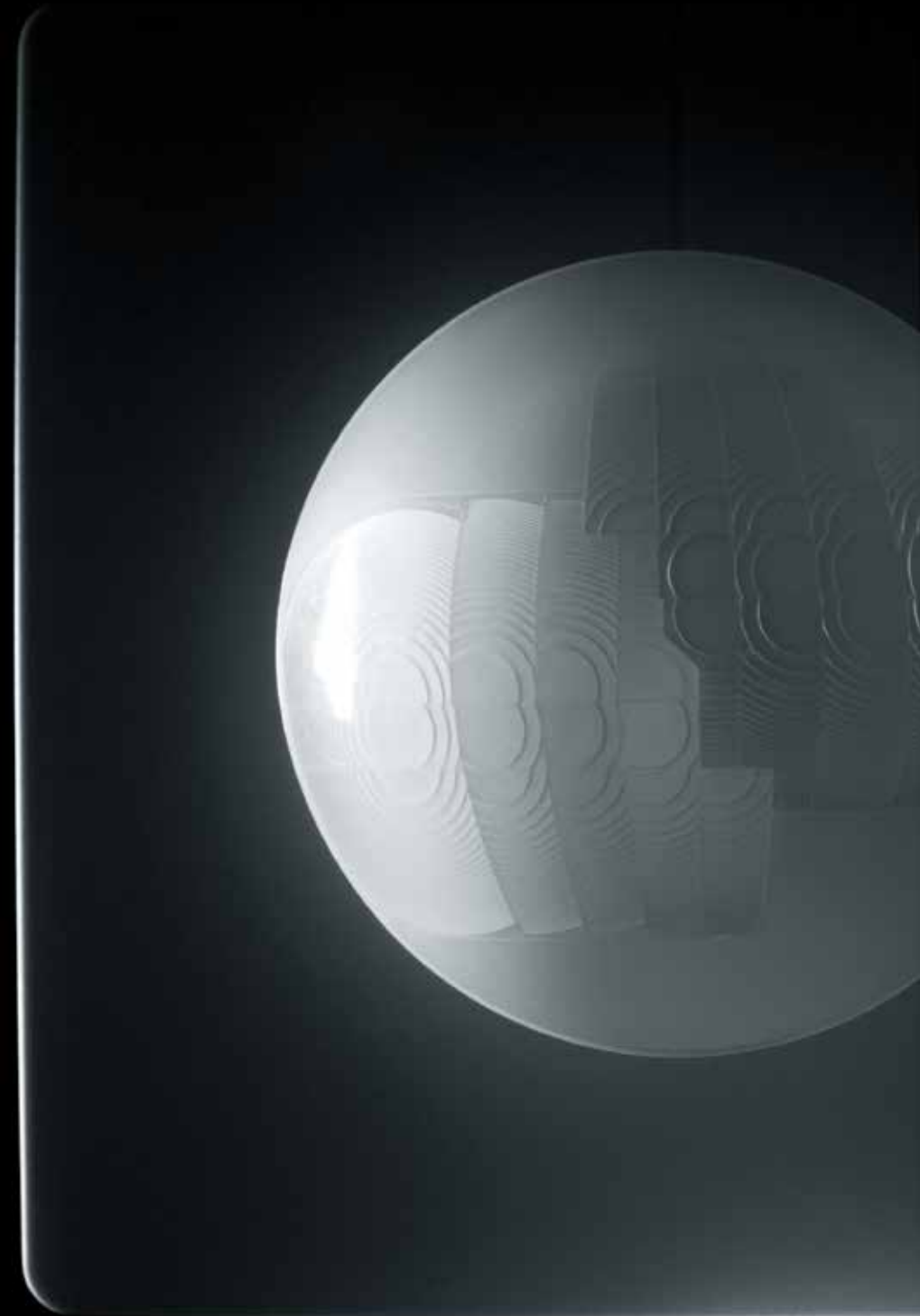
Best in class.

Unique lens designs with multiple pyros.

STEINEL's HBS series of occupancy sensors provide world class detection in high and low bay applications. They utilize multiple pyro configurations coupled with application specific lens designs that provide up to 1,416 switching zones of detection. IP20 and IP65 versions available in 120/230/277 VAC, 50/60Hz. IP20 versions available in 347/480 VAC, 60Hz.

### Applications

High bay areas, such as in warehouses, distribution centers, gymnasiums and loading docks.



	HBS 300	HBS 300 (347-480V)	HBS 200	HBS 200 (347-480V)	HBS 300-WL	HBS 200-WL
<b>Installation height</b>	up to 45ft (14m)	up to 45ft (14m)	up to 45ft (14m)	up to 45ft (14m)	up to 45ft (14m)	up to 45ft (14m)
<b>Sensors</b>	3 dual element infrared pyroelectric detectors	3 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors	3 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors
<b>Switching Zones</b>	1,416	1,416	104	104	1,416	104
<b>Voltage</b>	120/230/277 VAC, 50/60Hz	347/480VAC, 60Hz	120/230/277 VAC, 50/60Hz	347/480VAC, 60Hz	120/230/277 VAC, 50/60Hz	120/230/277 VAC, 50/60Hz
<b>Coverage</b>	360° up to 60ft (18.2m)	360° up to 60ft (18.2m)	100x13ft (30.48x3.96m) linear detection	100x13ft (30.48x3.96m) linear detection	360° up to 60ft (18.2m)	100x13ft (30.48x3.96m) linear detection
<b>IP Rating</b>	IP20	IP20	IP20	IP20	IP65	IP65
<b>Page</b>	78	78	80	80	82	84

## HBS 300/HBS 300 (347-480V)

High Bay Sensor

3 Pyros wide area sensor.  
1,416 switching zones, superior area coverage.

The HBS 300 High Bay Occupancy Sensor provides 360 degrees of occupancy based lighting control in high bay open area applications. The sensor performs at a wide range of mounting heights, up to 45 ft. It mounts directly to a high bay lighting fixture or junction box. The EM 1 Extender Module is recommended if the knockout at the end of a fixture is located greater than 1/2" from the bottom edge of the fixture.

### Applications

High bay open areas where 360 degree coverage is desired, such as in warehouses, distribution centers, gymnasiums and loading docks.

**PIR** Passive Infrared

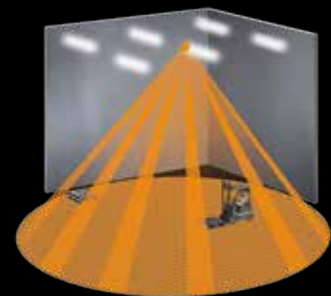
**360°** Max. 60 ft

**.2 - 200 fc**

**15 Sec - 30 Min**

**Installation Height** 8 - 45 ft

**5 YEARS WARRANTY** Functional Warranty



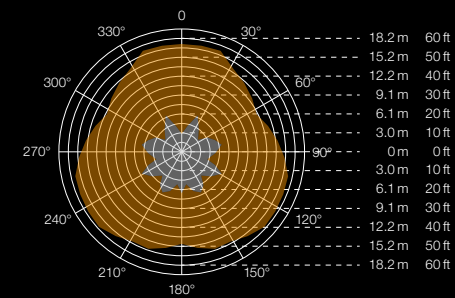
### Key features

- 360° coverage with up to 60 ft tangential reach
- Coverage area may be adjusted with plastic lens covers that snap to the front of the sensor
- 3 pyroelectric detectors with 1,416 switching zones
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Built-in surge protection with auto-reset

120/230/277 VAC, 50/60 Hz  
347 / 480 VAC, 60 Hz



PIR 3 Pyros  
360 Degree Coverage



Shown at 10 ft mounting height  
orange = tangential  
gray = radial

### Coverage

360°  
radial: up to 22 ft (6.7 m)  
tangential: up to 60 ft (18.2 m)

### Technical Information

**Voltage HBS 300** 120/230/277 VAC, 50/60 Hz  
**HBS 300 (347-480V)** 347 / 480 VAC, 60 Hz  
**Load Rating HBS 300** 120 VAC: 0 - 800 watt ballast, tungsten, 1/4 hp  
230/277 VAC: 0 - 1200 watt ballast  
**HBS300 (347-480V)** 5A electronic ballast load  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 15 seconds to 30 minutes  
**Light Level Setting** .2-200fc (2-2,000 lux)  
**Environment** IP20 rated, -4°F to +122°F (-20°C to +50°C)  
**Sensors** 3 dual element infrared pyroelectric detectors  
**Installation Height** 8 - 45 ft (2.5 - 14 m)  
**Lens Design** 1,416 switching zones  
**Dimensions (L x W x D)** 3.9x3.9x2.6in (99x99x66 mm)  
**Nipple length** 0.62in (15.75 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

64131 HBS 300 indiv. Packaged  
64130 HBS 300 bulk  
64133 HBS 300 (347-480V) indiv. Packaged  
64132 HBS 300 (347-480V) bulk

### Accessories

64304 LC 4, Reduced Range Lens Cover  
64305 LC 5, 180° Half Moon Lens Cover  
64307 EM 1, Extender Module

## HBS 200 / HBS 200 (347-480V)





High Bay Sensor

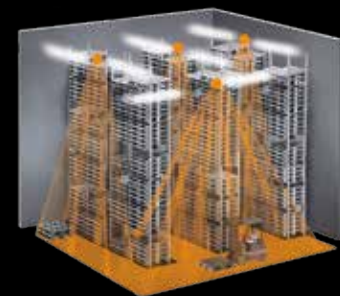
Specifically designed for aisle coverage.  
Up to 45 feet mounting heights.

The HBS 200 High Bay Occupancy Sensor provides occupancy based lighting control in high bay aisleway applications. Up to 45 feet, the sensor performs at a wide range of mounting heights. It mounts directly to a high bay lighting fixture or junction box. The EM 1 Extender Module is recommended if the knockout at the end of a fixture is located greater than 1/2" from the bottom edge of the fixture.

### Applications

High bay aisleway areas such as in warehouses and distribution centers.

<b>PIR</b>		<b>120 / 230 / 277 V</b>				<b>5 YEARS WARRANTY</b>
Passive Infrared	6.5x65 ft Maximum	Voltage	.2 - 200 fc	15 Sec - 30 Min	Installation Height 8-45 ft	Functional Warranty



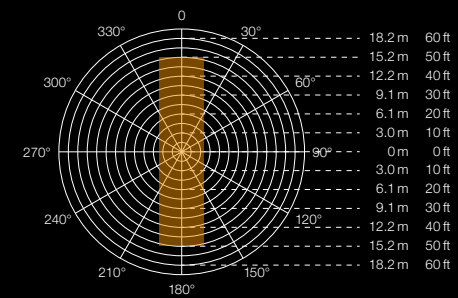
### Key features

- Aisleway coverage with up to 100ft linear detection
- Coverage area may be adjusted with LC 1 aisle starter lens cover that snap to the front of the sensor
- 2 pyroelectric detectors with 104 switching zones provides superior aisleway detection over other single pyroelectric linear coverage highbay sensors
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Built-in surge protection with auto-reset

120/230/277 VAC, 50/60Hz  
347 / 480 VAC, 60Hz



PIR 2 Pyros  
Linear Coverage



Shown at 40ft mounting height  
orange = radial

### Coverage

100x13 ft (30.48x3.96m) linear detection

### Technical Information

**Voltage HBS 200** 120/230/277 VAC, 50/60Hz  
**HBS 200 (347-480V)** 347 / 480 VAC, 60Hz  
**Load Rating HBS 200** 120 VAC: 0-800 watt ballast, tungsten, 1/4 hp  
230/277 VAC: 0-1200 watt ballast  
**HBS 200 (347-480V)** 5A electronic ballast load  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 15 seconds to 30 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000 lux)  
**Environment** IP20 rated, -4°F to +122°F (-20°C to +50°C)  
**Sensors** 2 dual element infrared pyroelectric detectors  
**Installation Height** 8 - 45 ft (2.5 - 14 m)  
**Lens Design** 104 switching zones  
**Dimensions (L x W x D)** 3.9x3.9x2.72in (99x99x69.1 mm)  
**Nipple length** 0.62in (15.75mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

64121 HBS 200 indiv. Packaged  
64120 HBS 200 bulk  
64123 HBS 200 (347-480V) indiv. Packaged  
64122 HBS 200 (347-480V) bulk

### Accessories

64301 LC 1, Aisle Starter Lens Cover  
64307 EM 1, Extender Module

## HBS 300-WL








High Bay Sensor

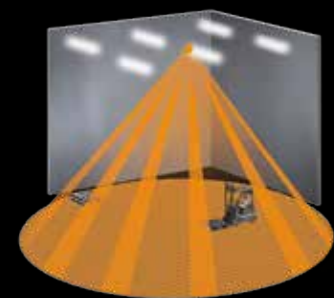
IP65 wet location 360° coverage occupancy sensor.  
Best in class radial and tangential coverage.

The HBS 300-WL sensor provides effective lighting control in areas requiring a 360 degree occupancy detection pattern. Best practice for high/low bay open areas requiring IP65 wet location rating. Ideal for warehouses and general damp or wet unconditioned storage areas. Up to 45 ft., the sensor performs at a wide range of mounting heights. With three highly sensitive pyroelectric detectors and a multi-segmented lens, the HBS 300-WL is able to achieve 1,416 switching zones with best in class radial and tangential detection. The EM 1 Extender Module is recommended if the knockout at the end of a fixture is located greater than 1/2" from the bottom edge of the fixture.

### Applications

Open area wet location where 360° coverage is needed, such as unconditioned storage warehouses.

						
360° Max. 60 ft	120 / 230 / 277V Voltage	.2 - 200 fc	15 Sec - 30 Min	Installation Height 8 - 45 ft	IP65 Wet Location Rated	5 YEARS WARRANTY Functional Warranty



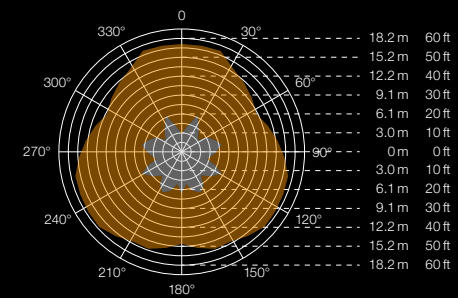
### Key features

- 360° coverage with up to 60 ft tangential reach
- IP65 Wet location rated
- 3 pyroelectric detectors with 1,416 switching zones provides better detection for high bay applications
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Built-in surge protection with auto-reset

IP65 Wet Location Rated  
120/230/277VAC, 50/60Hz



PIR 3 pyros  
360° Coverage



Shown at 10ft mounting height  
orange = tangential  
gray = radial

### Coverage

- 360°
- radial: up to 22ft (6.7m)
- tangential: up to 60ft (18.2m)

### Technical Information

- Voltage** 120/230/277 VAC, 50/60Hz
- Load Rating** 120VAC: 0 - 800 watt ballast, tungsten, 1/4 hp  
230/277 VAC: 0 - 1200 watt ballast
- Sensing Technology** passive infrared (PIR)
- Time Delay Setting** 15 seconds to 30 minutes
- Light Level Setting** .2 - 200fc (2 - 1,000lux)
- Environment** IP65 rated, -4 °F to +104 °F (-20 °C to +40 °C)
- Sensors** 3 dual element infrared pyroelectric detectors
- Installation Height** 8 - 45 ft (2.5 - 14 m)
- Lens Design** 1,416 switching zones
- Dimensions (LxWxD)** 5.54 x 5.54 x 2.86in (115.3 x 115.3 x 72.7 mm)
- Nipple length** 0.58in (14.7 mm)
- Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

64134 HBS 300-WL indiv. Packaged

### Accessories

64307 EM 1 extender module



## HBS 200-WL





High Bay Sensor

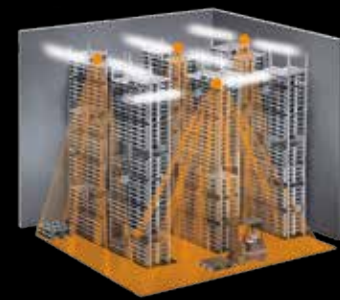
IP65 wet location aisle occupancy sensor.  
Wide range of mounting heights.

The HBS 200-WL sensor provides effective lighting control in damp or wet locations. Coverage specifically designed for aisle occupancy detection and can be used in a wide range of applications that require an IP65 rating. Best practice for unconditioned storage areas, warehouse aisles or any spaces requiring linear detection pattern. The sensor performs at a wide range of mounting heights, up to 45 feet. It mounts directly to a lighting fixture or junction box. The EM 1 Extender Module is recommended if the knockout at the end of a fixture is located greater than 1/2" from the bottom edge of the fixture.

### Applications

High bay wet location aisle applications such as unconditioned storage warehouses.

<b>PIR</b>		<b>120/230/277 V</b>				<b>IP65</b>	<b>5 YEARS WARRANTY</b>
Passive Infrared	6.5x65 ft Maximum	Voltage	.2 - 200 fc	15 Sec - 30 Min	Installation Height 8-45 ft	Wet Location Rated	Functional Warranty



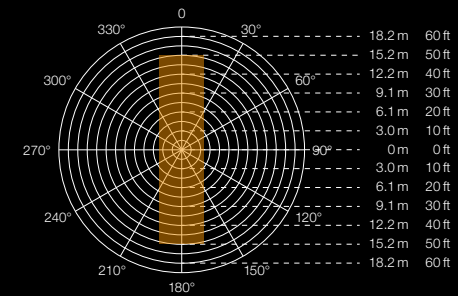
### Key features

- Aisleway coverage with up to 100 ft linear detection
- IP65 Wet location rated
- 2 pyroelectric detectors with 104 switching zones provides superior aisleway detection over other single pyroelectric highbay sensors
- Linear coverage
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Built-in surge protection with auto-reset

IP65 Wet Location Rated  
120/230/277VAC, 50/60Hz



PIR 2 Pyros  
Linear Coverage



Shown at 40 ft mounting height  
orange = radial

### Coverage

100x13 ft (30.48x3.96m) linear detection

### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Load Rating** 120VAC: 0 - 800 watt ballast, tungsten, 1/4 hp  
 230/277 VAC: 0 - 1200 watt ballast  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 15 seconds to 30 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000 lux)  
**Environment** IP65 rated, -4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 2 dual element infrared pyroelectric detectors  
**Installation Height** 8 - 45 ft (2.5 - 14 m)  
**Lens Design** 104 switching zones  
**Dimensions (LxWxD)** 5.54x5.54x2.98 in (115.3x115.3x75.8mm)  
**Nipple length** 0.58 in (14.7 mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

64124 HBS 200-WL indiv. Packaged

### Accessories

64307 EM 1 extender module

## Accessories

High Bay Sensors

Customize your high bay sensor to your specific application.

Lens covers can be used to adjust the high bay sensor coverage as needed for a variety of applications. The covers are plastic and snap securely to the front of a sensor with ease. When coverage is desired in one direction at the beginning of an aisle the LC 1 cover should be used with the HBS 200. To reduce the coverage of the HBS 300 the LC 4 should be used. The LC 5 is a 180° lens cover for the HBS 300.

The EM 1 Extender Module is used with STEINEL high bay occupancy sensors and is recommended if the knockout at the end of the fixture is located greater than 1/2" from the bottom edge of the fixture.



**EM 1**  
Extender Module

- Used with STEINEL highbay occupancy sensors
- Is recommended if the knockout at the end of the fixture is located greater than 1/2" from the bottom edge of the fixture.
- IP20 rated, -4°F to +122°F (-20°C to +50°C)
- 5.93 x 1.74 x 1.01 in (150.62 x 44.20 x 25.65 mm)

64307



**LC 1**  
Aisle Starter Lens Cover

- Use at the beginning of an aisle to adjust the coverage pattern to look in one direction
- The cover is plastic and snaps to the front of a sensor

64301



**LC 4**  
Reduced Range Lens Cover

- Reduces the coverage pattern of the HBS 300
- The cover is plastic and snaps to the front of a sensor

64304



**LC 5**  
180° Half Moon Lens Cover

- Reduces the coverage pattern of the HBS 300 to 180°
- The cover is plastic and snaps to the front of a sensor

64305

		HBS 300	HBS 300 (347-480V)	HBS 200	HBS 200 (347-480V)	HBS 300-WL	HBS 200-WL
LC 1	64301			•	•		
LC 4	64304	•	•				
LC 5	64305	•	•				
EM 1	64307	•	•	•	•	•	•

## Motion Detectors ( outdoor )

IP54 raintight.

Residential & commercial detector.

STEINEL's outdoor sensors offer the highest level of reliability and durability in harsh outdoor environments with a proven track record here in the USA. For over 20 years we have been the choice of contractors, specifiers and facility managers who demand the best in outdoor lighting controls.

### Applications

Interior applications that includes vestibules and garages. Exterior applications that includes entryways, carports, balconies and building soffits.



IS 360



IS 240-120

	IS 360	IS 240-120
Outdoors	•	•
For the wall		•
For the ceiling	•	
Installation height	8 - 12 ft (2.4 - 3.7 m)	8 - 12 ft (2.4 - 3.7 m)
Voltage	120VAC, 60Hz	120VAC, 60Hz
Coverage	360°	240°
Reach	max. 40ft (12.2m)	max. 40ft (12.2m)
Sensors	3 dual element infrared pyroelectric detectors	2 dual element infrared pyroelectric detectors
Switching zones	720	304
Page	90	92

## IS 360

Motion Detector

IP54 Raintight.  
Reliable operation indoors and out.

The STEINEL IS 360 occupancy sensor is raintight for safe reliable operation indoors and out. The sensors are passive infrared and respond to heat radiated from moving persons or other heat-emitting objects (such as vehicles). They automatically turn lights on when presence is detected and off when a space is left vacant. The IS 360 incorporates three highly sensitive pyroelectric sensors that provide reliable, uninterrupted 360° coverage.

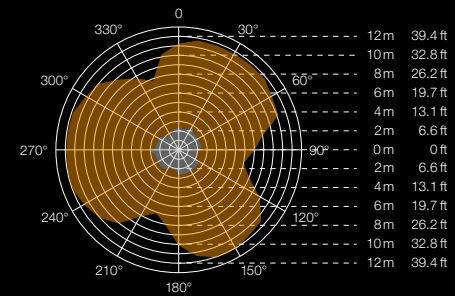
### Applications

Interior applications that includes vestibules and garages. Exterior applications that includes entryways, carports, balconies and building soffits.

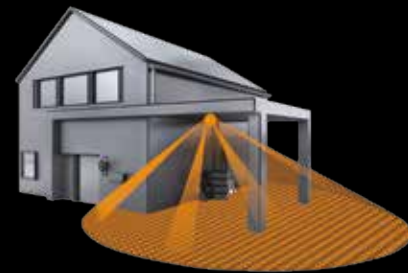


Passive Infrared Technology

<b>PIR</b>					<b>IP54</b>	<b>5 YEARS WARRANTY</b>
Passive Infrared	360° Max. 40 ft	Teach Mode .2 - 200 fc	10 Sec - 15 Min	Installation Height 8 - 12 ft	Raintight Rated	Functional Warranty



Shown at 9ft mounting height  
orange = tangential  
gray = radial



### Key features

- 360° coverage with up to 40ft reach
- 720 switching zones for highly accurate small motion detection
- Coverage area may be customized with supplied snap-on shrouds and through fine-tune rotation adjustment
- Precision molded lens is distortion free and watertight
- Detects motion directly beneath sensor for immediate detection
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent

### Coverage

360° with 180° angle of aperture up to 40ft (12.2 m)

### Technical Information

**Voltage** 120VAC, 60Hz  
**Maximum Wattage** 0-600 watt tungsten, 0-300 watt ballast  
**Mounting** ceiling  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 10 seconds to 15 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP54 raintight rated, -4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 3 dual element infrared pyroelectric detectors  
**Lens Design** 720 switching zones, 10 detection levels  
**Installation Height** 8 - 12ft (2.4 - 3.7 m)  
**Dimensions (LxWxD)** 4.7 x 4.7 x 3.9in (120 x 120 x 100mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

60261 IS 360-W white  
60251 IS 360-B black

## IS 240-120

Motion Detector

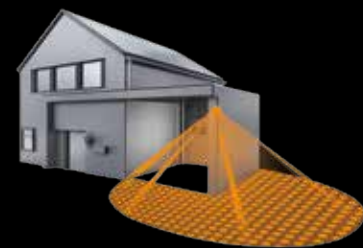
IP54 Rugged and raintight.  
Vertical mount detector.

The STEINEL IS 240-120 is an IP54 outdoor rated motion detector intended for vertical mounting to any 1/2" threaded cover plate or knockout and is raintight for safe reliable operation indoors and out. The sensors are passive infrared and respond to heat radiated from moving persons or other heat-emitting objects (such as vehicles). Regardless of occupancy the light level feature allows lighting to remain off during daylight. They automatically turn lights ON when presence is detected and OFF when a space is left vacant.

### Applications

Interior applications such as corridors, vestibules and garages. Exterior applications such as entryways, carports, balconies and porches.

<b>PIR</b>					<b>IP54</b>	<b>5 YEARS WARRANTY</b>
Passive Infrared	240° Max. 40 ft	Teach Mode .2 - 200 fc	10 Sec - 15 Min	Installation Height 8 - 12 ft	Raintight Rated	Functional Warranty

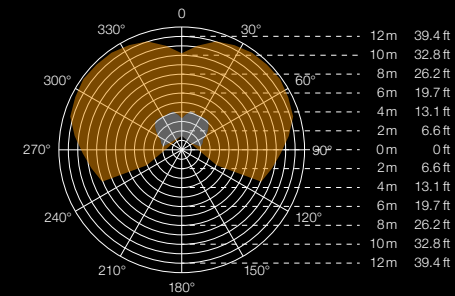


### Key features

- 240° coverage with up to 40ft reach
- 304 switching zones
- Coverage area may be customized with supplied snap-on shrouds and through fine-tune rotation adjustment
- Precision molded lens is distortion free and watertight
- Light level feature allows lighting to remain off during daylight regardless of occupancy
- Automatically adjusts to temperature changes keeping sensitivity and coverage consistent
- Built in surge protection with auto-reset



Passive Infrared Technology



Shown at 9ft mounting height  
orange = tangential  
gray = radial



white black

### Coverage

240° up to 40ft (12.2m)

### Technical Information

**Voltage** 120VAC, 60Hz  
**Maximum Wattage** 0 - 600 watt tungsten, 0 - 300 watt ballast  
**Mounting** wall  
**Sensing Technology** passive infrared (PIR)  
**Time Delay Setting** 10 seconds to 15 minutes  
**Light Level Setting** .2 - 200fc (2 - 2,000lux)  
**Environment** IP54 raintight rated, -4 °F to +122 °F (-20 °C to +50 °C)  
**Sensors** 2 dual element infrared pyroelectric detectors  
**Lens Design** 304 switching zones, 9 detection levels  
**Installation Height** 8 - 12 ft (2.4 - 3.7 m)  
**Dimensions (LxWxD)** 3.75x2.33x3.33in (95.25x59.2x84.6mm)  
**Warranty** 5 years

### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant

### Ordering Details

61621 IS 240-120 white  
 61622 IS 240-120 black

## Fixture Integrated Controls

Class leader in 5.8 GHz integrated technology.  
Mounts within fixtures.

STEINEL's OEM fixture integrated sensor use High Frequency technologies with a built in daylight feature. They provide occupancy and daylight control to be easily incorporated in a variety of fixture types for many applications. The HF technology allows the sensor to be totally enclosed within the fixture. This is ideal for IP44 or greater fixture types.

### Applications

Mounted in either a ceiling or wall lighting fixture, the sensor module is suited to a wide variety of interior spaces including offices, conference rooms and damp or wet locations when mounted inside IP65 type fixtures.





## HFLUM2-WR

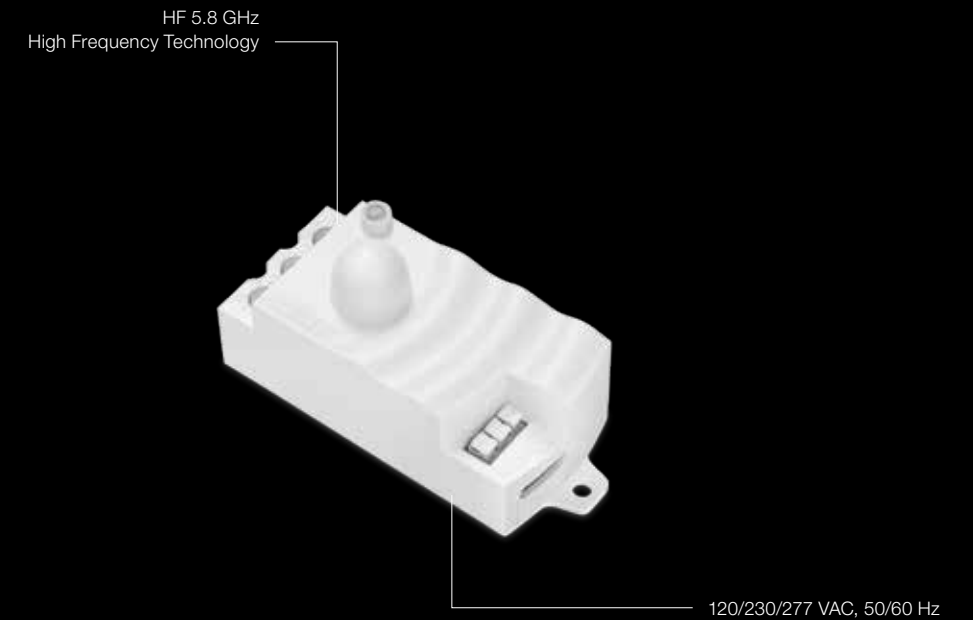
Fixture Integrated Controls

High frequency technology usable in IP65 type fixtures.

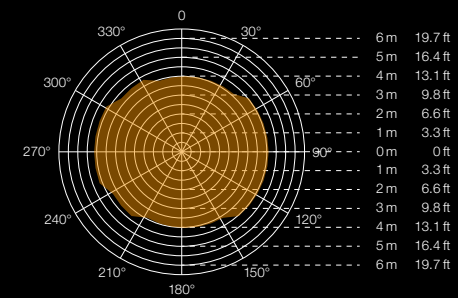
Add energy saving lighting control in each fixture location with the HFLUM2-WR, a line voltage occupancy sensor module that installs in a fixture. The HFLUM2-WR uses STEINEL's High Frequency (HF) technology to turn lights ON and OFF based on occupancy. It works by emitting high frequency electromagnetic waves (5.8 GHz) into the controlled area. Movement in the area causes a change in the waves' echo, resulting in occupancy detection. High frequency sensors can detect motion through many materials including glass and the lens of a fixture, enabling the sensor to be hidden from view.

### Applications

Mounted in either a ceiling or wall lighting fixture, the sensor module is suited to a wide variety of interior spaces including offices, conference rooms and damp or wet locations when mounted inside IP65 type fixtures.



<b>5.8 GHz</b> High Frequency	360° Max. 26ft	<b>120 / 230 / 277 V</b> Voltage	.2 - 200 fc	30 Sec - 30 Min	Installation Height 8 - 10 ft	<b>5 YEARS WARRANTY</b> Functional Warranty
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Shown at 9ft mounting height  
orange= radial



#### Key features

- 360° coverage; reach is adjustable from 3.3 to 26 ft
- High frequency technology emits 5.8GHz electromagnetic waves
- Built-in surge protection with auto-reset
- Lamp seasoning feature provides a simple and convenient 4 day burn in as recommended by lamp manufacturers
- Adjustable time delay and light level settings
- Light level feature allows lighting to remain off during daylight, regardless of occupancy (hold OFF)
- Wiring is streamlined with three terminals

#### Coverage

360° adjustable 3.3 to 26 ft reach (1 to 8 m)

#### Technical Information

**Voltage** 120/230/277 VAC, 50/60Hz  
**Load Rating** 0-800 watts@ 120VAC, 50/60Hz incandescent, magnetic or electronic ballasts - 1/4 HP  
 0-1,200 watts@230/277 VAC, 50/60 Hz magnetic or electronic ballasts  
 0-650 watts@120/230/277 VAC, 50/60Hz LED  
**Transmitter Power** 1 mW  
**Power Consumption** < 0.5W  
**Time Delay Setting** 30 seconds to 30 minutes  
**Light Level Setting** .2-200 fc (2-2,000 lux)  
**HF System** 5.8GHz  
**Environment** requires enclosure, temperature -4 °F - 185 °F (-20 °C - 85 °C)  
**Installation Height** 8 - 10ft (2.4 - 3m)  
**Dimensions (LxWxD)** 4.2x 1.7 x 1.8in (107 x 42 x 44.5mm)  
**Warranty** 5 years

#### Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant  
 Contains: FCC ID - W8J - SIR13, IC - 85289A - SIR13

#### Ordering Details

65122 HFLUM2-WR

## Summary of order numbers

### Presence Detectors

64460	IR Quattro HD COM1-24	16
64470	IR Quattro HD COM2-24	16
64480	IR Quattro HD DIM-24	16
64490	IR Quattro HD COM1-WR	16
64500	IR Quattro HD KNX	16
64410	IR Quattro COM1-24	18
64420	IR Quattro COM2-24	18
64430	IR Quattro DIM-24	18
64440	IR Quattro COM1-WR	18
64450	IR Quattro KNX	18
64700	DT Quattro COM1-24	20
64710	DT Quattro COM2-24	20
64720	DT Quattro DIM-24	20
42904	DT Quattro KNX	20
64510	US Quattro COM1-24	22
64520	US Quattro COM2-24	22
64530	US Quattro DIM-24	22
42901	US Quattro KNX	22
64550	US Hallway COM1-24	24
64560	US Hallway COM2-24	24
64570	US Hallway DIM-24	24
42902	US Hallway KNX	24
64600	US Oneway COM1-24	26
64610	US Oneway COM2-24	26
64620	US Oneway DIM-24	26
42903	US Oneway KNX	26
65400	IR CM COM1-24	28
65420	IR CM COM2-24	28
65440	IR CM DIM-24	28
65500	DT CM COM1-24	30
65520	DT CM COM2-24	30
65540	DT CM DIM-24	30

### Presence Detectors Accessories

65900	Smart Remote	36
65330	Wire guard cage	38
65320	IR user remote control RC 4	38
65800	IR service remote control RC 8	38
65340	CR-2025 (Battery for RCs)	38
11663	Surface-mount adapter (SMA) KNX	39
65600	IR service remote control RC 6 KNX	39
65700	IR user remote control RC 7 KNX	39

### IS Series

61133	IS 3360-24 white	42
61131	IS 3180-24 white	44
61134	IS 345-24 white	46
61136	IS D360-24	48

### IS Series Accessories

61143	Black Corner Wall Bracket (CWB-B)	51
61144	White Corner Wall Bracket (CWB-W)	51
61141	Black Decorative Cover (ISDC-B)	51
61142	Inox Decorative Cover (ISDC-I) (silver)	51

### Power Packs

63101	TR 100	54
63103	TR 100-A	54
63102	TR 100-M	54
55490	TR 200	54
63205	TR 150	56
63207	TR 150-A	56
63206	TR 150-M	56
55491	TR 250	56

### Wallswitches

66100	IR WLS 1-W white	62
66130	IR WLS 2-W white	62
66110	IR WLS 1-LA light almond	62
66140	IR WLS 2-LA light almond	62
54565	IR WLS 1-BK black	62
54568	IR WLS 2-BK black	62
54566	IR WLS 1-GY gray	62
54567	IR WLS 2-GY gray	62
66102	IR VS 1-W white	62
66132	IR VS 2-W white	62
66112	IR VS 1-LA light almond	62
66142	IR VS 2-LA light almond	62
54743	IR VS 1-BK black	62
54745	IR VS 2-BK black	62
54744	IR VS 1-GY gray	62
54746	IR VS 2-GY gray	62
66160	US WLS 1-W white	64
66190	US WLS 2-W white	64
66170	US WLS 1-LA light almond	64
66200	US WLS 2-LA light almond	64
54721	US WLS 1-BK black	64
54730	US WLS 2-BK black	64
54722	US WLS 1-GY gray	64
54731	US WLS 2-GY gray	64
66162	US VS 1-W white	64
66192	US VS 2-W white	64
66172	US VS 1-LA light almond	64
66202	US VS 2-LA light almond	64
54747	US VS 1-BK black	64
54752	US VS 2-BK black	64
54748	US VS 1-GY gray	64
54753	US VS 2-GY gray	64
66220	DT WLS 1-W white	66
66250	DT WLS 2-W white	66
66230	DT WLS 1-LA light almond	66
66260	DT WLS 2-LA light almond	66
54733	DT WLS 1-BK black	66
54741	DT WLS 2-BK black	66

54734	DT WLS 1-GY gray	66
54742	DT WLS 2-GY gray	66
66222	DT VS 1-W white	66
66252	DT VS 2-W white	66
66232	DT VS 1-LA light almond	66
66262	DT VS 2-LA light almond	66
54754	DT VS 1-BK black	66
54756	DT VS 2-BK black	66
54755	DT VS 1-GY gray	66
54757	DT VS 2-GY gray	66
54546	IR WLS DIM-W white	68
54543	IR WLS DIM-LA light almond	68
54545	IR WLS DIM-BK black	68
54720	IR WLS DIM-GY gray	68
54901	IR VS DIM-W white	68
54899	IR VS DIM-LA light almond	68
54900	IR VS DIM-BK black	68
54898	IR VS DIM-GY gray	68
54841	US WLS DIM-W white	70
54843	US WLS DIM-LA light almond	70
54840	US WLS DIM-BK black	70
54842	US WLS DIM-GY gray	70
54905	US VS DIM-W white	70
54903	US VS DIM-LA light almond	70
54904	US VS DIM-BK black	70
54902	US VS DIM-GY gray	70
54551	DT WLS DIM-W white	72
54548	DT WLS DIM-LA light almond	72
54550	DT WLS DIM-BK black	72
54549	DT WLS DIM-GY gray	72
54555	DT VS DIM-W white	72
54553	DT VS DIM-LA light almond	72
54554	DT VS DIM-BK black	72
54552	DT VS DIM-GY gray	72

## Summary of order numbers

### High Bay Sensors

64131	..... HBS 300 indiv. Packaged.....	78
64130	..... HBS 300 bulk .....	78
64133	..... HBS 300 (347-480V) indiv. Packaged.....	78
64132	..... HBS 300 (347-480V) bulk .....	78
64121	..... HBS 200 indiv. Packaged.....	80
64120	..... HBS 200 bulk .....	80
64123	..... HBS 200 (347-480V) indiv. Packaged.....	80
64122	..... HBS 200 (347-480V) bulk .....	80
64134	..... HBS 300-WL indiv. Packaged .....	82
64124	..... HBS 200-WL indiv. Packaged .....	84

### High Bay Sensors Accessoires

64301	..... LC 1.....	86
64304	..... LC 4.....	86
64305	..... LC 5.....	86
64307	..... EM 1 .....	86

### Motion Detectors (outdoor)

60261	..... IS 360-W white .....	90
60251	..... IS 360-B black.....	90
61621	..... IS 240-120 white .....	92
61622	..... IS 240-120 black.....	92

### Integrated Controls

65122	..... HFLUM2-WR .....	96
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## Quality and service.



### STEINEL Brand

- STEINEL has been specializing in sensor technology for over 25 years
- German engineering
- Produced in Europe



### STEINEL 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.



### Safety Standard

All products from STEINEL comply with United States and Canadian safety standards.



### RoHS Compliant

Complies with RoHS directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



### Quality Standard

Our products are manufactured under conditions in compliance with Quality Standard DIN EN ISO 9001 and Environmental Management Systems Standard DIN EN ISO 14001.



### **STEINEL Customer Services**

Phone: (952) 888-5950  
(800) 852-4343  
Fax: (952) 888-5132  
Email: [sales@steinel.net](mailto:sales@steinel.net)



### **Technical Support**

Phone: (888) 298-8298  
Email: [tech@steinel.net](mailto:tech@steinel.net)  
Monday - Friday 7 a.m. - 5 p.m. C.S.T.



### **[www.steinel.net](http://www.steinel.net)**

- Product overview
- Operating instructions for downloading
- Datasheets
- Wiring diagrams



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