Wherever the best is needed.

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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.

4,800 detection zones for highest precision

4 pyros square scalable coverage pattern
German engineering.
Manufactured in Europe.

Uncompromising quality from one source. The highest level of vertical 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
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.

Coverage
1. Tangential: motion perpendicular to the sensor max. 65.5 ft (20 m) max. 20 x 20 m (400 sq.m)
2. Radial: motion either directly toward or away from the sensor max. 25.5 ft (8.0 m) 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 ft (8.0 m) 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: 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: 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 Quatro HD COM1-24
64470 IR Quatro 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.

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**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 (L x W x D):** 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.

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

Technical Information
Sensing Technology
- Passive Infrared (PIR) & Ultrasonic 40 kHz

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)

Sensors
Single infrared pyroelectric detector

Design
11 detection levels, 520 switching zones

Dimensions (L x W x D)
4.72 x 4.72 x 2.68 in (120 x 120 x 68 mm)

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

Passive Infrared & Ultrasonic Technology

Shown at 9ft mounting height
PIR orange = tangential
gray = radial & presence
US orange = tangential & radial
grey = presence
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 provide 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.

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**40 kHz**

<table>
<thead>
<tr>
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<th>Value</th>
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<tr>
<td>Light Level Setting</td>
<td>1 - 100 fc (10 - 1,000 lux)</td>
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<td>Dimensions (LxWxD)</td>
<td>4.72 x 4.72 x 2.68 in (120 x 120 x 68 mm)</td>
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<tr>
<td>Warranty</td>
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</tr>
</tbody>
</table>

**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 (A/DO)
- Momentary / Maintained switch option
- 12V only / 12V & PFP 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. 32 x 32 ft (1,000 sq.ft.) max. 10 x 10 m (100 sq.m.)
2. Radial: motion either directly toward or away from the sensor max. 32 x 32 ft (1,000 sq.ft.) max. 10 x 10 m (100 sq.m.)
3. Presence: minor motion as described by NEMA WD7 with the additional requirement of both radial and tangential detection max. 20 x 20 ft (400 sq.ft.) max. 6 x 6 m (36 sq.m.)

**Technical information**
- Sensing Technology: Ultrasonic, 40 kHz
- Light Level Setting: 1 - 100 fc (10 - 1,000 lux)
- Environment: IP20 rated
- Installation Height: 8 - 12 ft (2.5 - 3.5 m)
- Dimensions: (LxWxD) 4.72 x 4.72 x 2.68 in (120 x 120 x 68 mm)
- 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.

40 kHz

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 (AUT)
- Momentary / Maintained switch option
- HV only at 120 V / OFF manual switching
- 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, DIM-24 and KNX

Certifications
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

40 kHz Ultrasonic Technology

Shown at 9ft mounting height
orange = radial
light blue = linear
Coverage

Technical Information
Sensing Technology: Ultrasonic 40 kHz
Light Level Setting: 1 - 100 fc (10 - 1,000 lux)
Environment: 23 - 35 °C (73 - 95 °F)
Installation Height 5 - 12 ft (1.5 - 3.5 m)
Dimensions (L x W x D): 4.72 x 4.72 x 2.87 in (120 x 120 x 73 mm)
Warranty: 5 years

Ultrasonic
40 kHz
6.5 x 65 ft
Maximum
Teach Mode
1 - 100 fc
ID / Test Switch: 30 kHz
Installation Height: 8 - 12 ft
5 YEARS WARRANTRY
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.

Technical Information

Sensing Technology
ultrasonic 40 kHz

Light Level Setting
1 - 100 fc (10 - 1,000 lux)

Environment
IP20 rated,
32 °F to +104 °F (0 °C to +40 °C)

Coverage
6.5 x 35 ft linear

Installation Height
8 – 12 ft (2.5 – 3.5 m)

Dimensions (L x W x D)
4.72 x 4.72 x 2.87 in
(120 x 120 x 73 mm)

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

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

40 kHz

Ultrasonic
6.5 x 33 ft
Maximum
1 - 100 fc
Teach Mode
30 kHz
Installation Height
6 – 12 ft
5 YEAR
Warranty

Coverage

Technical Information

Sensing Technology: Ultrasonic 40 kHz
Light Level Setting: 1 - 100 fc (10 - 1,000 lux)
Environment: 32 °F to +104 °F (0 °C to +40 °C)
Coverage: 6.5 x 35 ft
Installation Height: 8 – 12 ft
Dimensions (L x W x D): 4.72 x 4.72 x 2.87 in
(120 x 120 x 73 mm)
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

40 kHz Ultrasonic Technology
IR CM
Presence Detector

Unparalled 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.

Coverage
1. Tangential: motion perpendicular to the sensor max. 82 ft (5,290 sq. ft.)
2. Radial: motion either directly toward or away from the sensor max. 26 ft (655 sq. ft.)
3. Presence: minor motion as described by NEMA WD7 with the additional requiremet of both radial and tangential detection max. 22 ft (440 sq. ft.)

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

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
• 12V only - TYP & STP manual switching

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

Passive Infrared Technology

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

520 PIR Detection Zones
40° Teach Mode
30 Sec – 30 Min
5 Years Warranty

360° Teach Mode
30 Min
5 Years Warranty

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

Coverage
1. Tangential: motion perpendicular to the sensor max. 82 ft (5,290 sq. ft.)
2. Radial: motion either directly toward or away from the sensor max. 26 ft (655 sq. ft.)
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.)

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

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
• 12V only - TYP & STP manual switching

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

Passive Infrared Technology

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

520 PIR Detection Zones
40° Teach Mode
30 Sec – 30 Min
5 Years Warranty

360° Teach Mode
30 Min
5 Years Warranty

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

Coverage
1. Tangential: motion perpendicular to the sensor max. 82 ft (5,290 sq. ft.)
2. Radial: motion either directly toward or away from the sensor max. 26 ft (655 sq. ft.)
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.)

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

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
• 12V only - TYP & STP manual switching

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

Passive Infrared Technology

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

520 PIR Detection Zones
40° Teach Mode
30 Sec – 30 Min
5 Years Warranty

360° Teach Mode
30 Min
5 Years Warranty

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

Coverage
1. Tangential: motion perpendicular to the sensor max. 82 ft (5,290 sq. ft.)
2. Radial: motion either directly toward or away from the sensor max. 26 ft (655 sq. ft.)
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.)

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

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
• 12V only - TYP & STP manual switching

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

Passive Infrared Technology

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

520 PIR Detection Zones
40° Teach Mode
30 Sec – 30 Min
5 Years Warranty

360° Teach Mode
30 Min
5 Years Warranty

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

**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.

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**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 DIM 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

---

**Technical Information**

- **Sensing Technology:** Passive Infrared & Ultrasonic 40 kHz
- **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:** 1 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 for 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

**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)

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

**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 CM: 18-24 VDC/VAC (29mA)
- DT CM: 18-24 VDC/VAC (40mA)
- 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)

**Load Rating**
- control output (blue): 1A @ 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

---

**DIM**

**Voltage**
- IR CM: 18-24 VDC/VAC (27mA)
- DT CM: 18-24 VDC/VAC (39mA)
- 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)

**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)

---

**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

**Switch-'ON' delay**
- Room surveillance, 0 – 255 min.
- Stay-'ON' time 1 – 255 min.

**Presence stay-'ON' time output**
- 1 – 255 sec. or 1 – 255 min.

**Further outputs**
- Light level, sabotage protection

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

Note: Power Pack must be in Auto mode.
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.

Technical Information

- **Dimensions (L x W x D):** 115 x 52 x 26 mm
- **Operating Voltage:** 3 VDC, 2 batteries, type AAA
- **Reach:** up to 15 m
- **Warranty:** 5 years

Products controllable by Smart Remote:

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

Ordering Details
- 65900 Smart Remote

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

Presence Detector

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

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
65340

CR-2025 (Battery for RCs)
3 Volt battery for the RC remotes.
65340

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

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
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
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 provide 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.

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

Technical Information
- Voltage: 24 VDC, 12 mA
- Mounting: ceiling
- Sensing Technology: passive infrared (PIR)
- Time Delay Setting: 5 seconds to 15 minutes
- Light Level Setting: .2 - 200 fc (.2 - 2,000 lux)
- 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 (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
61133 IS 3360-24 white
61141 Decorative cover black
61142 Decorative cover inox (silver)

Accessories
- 61314 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.

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

Technical Information
Voltage 24 VDC, 12 mA
Mounting wall
Sensing Technology Passive infrared (PIR)
Time Delay Setting 5 seconds to 15 minutes
Light Level Setting .2 - 200 fc (2 - 2,000 lux)
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 6.6 ft (2 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
61131 IS 3180-24 white

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

Passive Infrared Technology
Showed at 6.6 ft mounting height
orange = tangential
gray = radial

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

Technical Information
Voltage 24 VDC, 12 mA
Mounting wall
Sensing Technology Passive infrared (PIR)
Time Delay Setting 5 seconds to 15 minutes
Light Level Setting .2 - 200 fc (2 - 2,000 lux)
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 6.6 ft (2 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
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 aiseways. 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.

Key features
- Coverage up to 40 ft radial reach and 75.5 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 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.

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

Technical information
Voltage: 24 VDC, 12 mA
Mounting: ceiling
Sensing Technology: passive infrared (PIR)
Time Delay Setting: 5 seconds to 15 minutes
Light Level Setting: .2 - 200 fc (2 - 2,000 lux)
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)

46
47
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 respond to heat emitted 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.

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

Coverage
360° with 110° angle of aperture, radial: up to 13 ft (4 m)
Tangential: up to 26 ft (8 m)

Technical Information
Voltage 24 VDC, 19 mA
Mounting recessed ceiling
Sensing Technology passive infrared (PIR)
Time Delay Setting 5 seconds to 20 minutes
Light Level Setting .2 - 200 fc (2 - 2,000 lux)
Environment -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 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.
### 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 loads 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.

#### Power Packs Table

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Output</th>
<th>Load</th>
<th>Isolated relay for use with HVAC controls and other low voltage devices</th>
<th>Dimensions (L x W x D)</th>
<th>Switching Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR 100</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 100-A</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 100-M</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 200</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>15 A @ 120 VAC, 50 / 60 Hz 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>3 x 3.2 x 1.5 in (75 x 81 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
</tbody>
</table>

#### Power Packs Table

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<tr>
<th>Item No.</th>
<th>Output</th>
<th>Load</th>
<th>Isolated relay for use with HVAC controls and other low voltage devices</th>
<th>Dimensions (L x W x D)</th>
<th>Switching Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR 150</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 150-A</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 150-M</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>2.4 x 2.1 x 1.5 in (60 x 54 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
<tr>
<td>TR 250</td>
<td>24 VDC +/- 5% (20 mA) class 2</td>
<td>20 A @ 120-240 VAC, 50 / 60 Hz 1 hp @ 120 V - Electronic Ballasts / LED 1 hp @ 120 VAC, 50 / 60 Hz receptacle load</td>
<td>-</td>
<td>3 x 3.2 x 1.5 in (75 x 81 x 39 mm)</td>
<td>Switching Mode adjustable Automatic ON / OFF switches the isolated ON and OFF in response to an occupant manually operating Manual ON / Automatic OFF switches the isolated ON only when the occupant manually presses a non-resettable switch. The local automatically switch OFF in response to an occupant sensor.</td>
</tr>
</tbody>
</table>
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 loads 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.

Key features
- LED status indicator
- Switching is performed all, or close to, the zero-cross of the AC waveform in order to improve relay performance
- .83 x .83 in (21 x 21 mm) 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 modes
- 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 24VDC
- “COM-Link” communication with Control Pro sensors
- Maintained or momentary switch input
- 4 seconds to 30 minute time delay
- “Fail safe” latching relay
- 20 Amp receptacle control

Technical Information

Voltage 120/230/277 VAC, 50/60 Hz
Output TR 100 24 VDC +/- 5% 250 mA (class2)
Load 20 A 120/230/277 VAC 50/60 Hz
- Ballast and incandescent load
- 1 hp @ 120/230/277 VAC 50/60 Hz
15 A @ 120 VAC 50/60 Hz – receptacle load
TR 200 24 VDC +/- 5% 270 mA (class2)
Load 20 A @ 120/230/277 VAC 50/60 Hz
- Ballast and incandescent load
20A @ 120V - Electronic Ballasts / LED
16A @ 277V - Electronic Ballasts / LED
1 hp @ 120 VAC 60 Hz
2 hp @ 240/277 VAC 50/60 Hz
20 A @ 120V receptacle load

Environmental IP20 rated

-4 °F to +130 °F (-20 °C to +55 °C)

Dimensions (L x W x D) TR 100: 2.4 x 3.2 x 1.5 in (60 x 81 x 39 mm)
TR 200: 2.4 x 3.2 x 1.5 in (67 x 81 x 39 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
TR150 / TR150-A / TR150-M / TR250
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 controlling 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.

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 24 VDC 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 / 60 Hz
Output TR 150 24 VDC +/- 5% 250 mA (class2)
Load 15 A @ 120 VAC, 50 / 60 Hz - ballast and incandescent load
1 hp @ 120 VAC, 50 / 60 Hz - receptacle load
15 A @ 240 VAC, 50 / 60 Hz - receptacle load
TR 250 24 VDC +/- 5% 270 mA (class2)
Load 20A @ 120 / 230 / 277 VAC 50 / 60 Hz - ballast and incandescent load
20A @ 120V - Electronic Ballasts / LED
15 A @ 277 VAC, 50 / 60 Hz - receptacle load
1 hp @ 277 VAC, 50 / 60 Hz - receptacle load
Warranty 5 years

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

Certifications
UL / cUL Listed, RoHS Compliant, CA Compliant, UL 2043 Plenum Rated

Environment
IP20 rated
-4 °F to +130 °F (-20 °C to +55 °C)
Dimensions (L x W x D) TR 150 2.4 x 3.2 x 1.5 in (60 x 81 x 39 mm)
TR 250 3 x 3.8 x 1.5 in (75 x 96 x 39 mm)
Threaded Nipple Dimensions .83 x .83 in (21 x 21 mm)
Warranty 5 years
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
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
Wallswitch


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 “O” protocol daylight option will keep the lighting 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’.

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’ (378 sq.ft.)
   max. 6.5 m x 5.5 m (36 sq.m.)
2. Tangential: max. 54’ (4,500 sq.ft.)
   max. 16.5 m (628 sq.m.)
3. Radiant: max. 24’ (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 & 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
Time Setting IQ/Test, 5, 15, 30 minutes
Light Level Setting 8 - 200 fc (80 - 2,000 lux)
Envirnomental IP20 rated, 32 °F to +104 °F (0 °C to +40 °C)
Certifications UL/cULus Listed, RoHS compliant, California Compliant
Ordering Details
66100 IR WLS 1-W white
66130 IR WLS 2-W white
66110 IR WLS 1-LA light almond
66140 IR WLS 2-LA light almond
54565 IR WLS 1-BK black
54568 IR WLS 2-BK black
54566 IR WLS 1-GY gray
54567 IR WLS 2-GY gray
66102 IR VS 1-W white
66132 IR VS 2-W white
66112 IR VS 1-LA light almond
66142 IR VS 2-LA light almond
54743 IR VS 1-BK black
54744 IR VS 1-GY gray
54745 IR VS 2-BK black
54746 IR VS 2-GY gray
Warranty 5 years
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'.

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 / 60 Hz)
• 180° coverage pattern
• Mounts to a single-gang NEMA-style, standard switch box & decorator-style wall plate by others

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 ultrasonic 40 kHz
Time Setting IQ/Test, 5, 15, 30 minutes
Light Level Setting 8 - 200 fc (80 - 2,000 lux)
(only US WLS)
Environment IP20 rated, 32 °F to +104 °F (0 °C to +40 °C)
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.)

Certifications
Cl & UL Listed, RoHS compliant, California Compliant

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

Warranty 5 years

 coverage 40 kHz Ultrasonic Technology
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. DP 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’.

Key features

• 79% & 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

Coverage

1. Minor Motion: PIR: max. 21 x 18 ft (378 sq.ft.) US: max. 6.5 x 5.5 m (36 sq.m.)

2. Tangential: PIR: max. 54 ft (4,500 sq.ft.) US: max. 24 ft (904 sq.ft.)


Technical information

Voltage 120/230/277 VAC, 50/60Hz
Mounting single-gang NEMA-style switch box (standard switch box & decorative-style wall plate by others)
Load Rating 0 - 800 watts @ 120/230/277 VAC, 50/60 Hz for tungsten, magnetic or electronic ballast; 1/6 hp
0 - 800 watts @ 120/230/277 VAC, 50/60 Hz for CFL, or LED electronic ballast C ≤ 132 μF max.
Sensing Technology Passive infrared & ultrasonic; 40kHz
Time Setting IQ/Test, 5, 15, 30 minutes
Light Level Setting 8 - 200 fc (80 - 2,000 lux)

Environment

IP20 rated,
32°F to +104°F (0°C to +40°C)
Coverage 180°
Installation Height 4 ft
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 54742 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

66 67

Wallswitches
**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 protocol 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’.

**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)
- Mounts to a single-gang NEMA-style, standard switch box & decorative-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

**Coverage**

1. Minor Motion: max. 21 x 18 ft (378 sq.ft.)
   max. 6.5 x 5.5 m (36 sq.m.)
2. Tangential: max. 54 ft (4,500 sq.ft.)
   max. 16.5 m (628 sq.m.)
3. Radiant: 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 & decorative-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.
- **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**: 1-100 fc (10-1,000 lux) (only IR 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**

- 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
- 54900 IR VS DIM-W white
- 54899 IR VS DIM-LA light almond
- 54930 IR VS DIM-BK black
- 54898 IR VS DIM-GY gray

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**PIR (passive infrared)**

Orange = tangential
dark gray = radial
gray = minor motion

**Passive Infrared Technology**

**0-10 Volt Dimming**

**Functional Warranty**

**5 YEARS**

**Teach Mode**

1 - 100 fc (10-1,000 lux)

**Button 1: Dim Up**

**Button 2: ON / OFF**

**Button 3: Dim Down**

**Coverage**

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

**环境**

- IP20 等级
- 32 °F to +104 °F (0 °C to +40 °C)

**安装高度**

- 4 ft (1.2 m)

**尺寸**

- (L x W x D) 4.13 x 1.74 x 1.83 in (105 x 44.1 x 46.5 mm)

**保修**

- 5 年

**认证**

- C-UL-US 列检
- RoHS 合规
- 加州合规

**订购详情**

- 54546 IR WLS DIM-W 白色
- 54543 IR WLS DIM-LA 淡米色
- 54545 IR WLS DIM-BK 黑色
- 54720 IR WLS DIM-GY 灰色
- 54900 IR VS DIM-W 白色
- 54899 IR VS DIM-LA 淡米色
- 54930 IR VS DIM-BK 黑色
- 54898 IR VS DIM-GY 灰色
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’.

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 / 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 up to 4 sensors to be grouped together
- Hold OFF or Force OFF light level feature
- Partial ON & Partial OFF control

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, 50/60 Hz. magnetic or electronic ballast - 1/6 hp 0 - 600 watts@ 120/230/277 VAC, 50/60 Hz DFL or LED electronic ballast C ≤ 132 µF max.
- Dimming Output 0-10 volt (purple & gray) 50mA, max 25 (0-10 electronic dimming ballasts / drivers)
- Sensing Technology 40 kHz Ultrasonic Technology
- 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)
- Installation Height 4 ft (1.2 m)
- 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

40 kHz Ultrasonic Technology

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

40 kHz Ultrasonic Technology

40 kHz

21 ft Minor Motion
54 ft Tangential

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.)

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

40 kHz Ultrasonic Technology

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

40 kHz Ultrasonic Technology

21 ft Minor Motion
54 ft Tangential
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 midway 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’.

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 / 60 Hz) with 0 - 10 volt dimming
- Mounts to a single-gang NEMA-style, standard switch box & decorative-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

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 & decorative-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.
Dimming Output 1-10 volt (purple & gray) 50mA, max 25 (1-10 electronic dimming ballasts / drivers)
Sensing Technology Passive Infrared & 40 kHz Ultrasonic Technology
Time Setting IQ/Test, 5, 15, 30 minutes
Light Level Setting 1-100 fc (10-1,000 lux) (only DT WLS DIM)
Temperature EPOC rated: 32°F to 122°F (-30°C to +49°C)

Ordering Details
54551 DT WLS DIM-W white
54545 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

Certificate
CUL-US Listed, RoHS compliant, California Compliant

Warranty 5 years
Wiring

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 70°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

WLS 1 and VS 1 versions

WLS 2 and VS 2 versions

WLS DIM and VS DIM versions

Note: For supply connection, use wires rated for at least 70°C.
**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 utilizing 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 / 60 Hz. IP20 versions available in 347 / 480 VAC, 60 Hz.

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

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<table>
<thead>
<tr>
<th>Model</th>
<th>HBS 200</th>
<th>HBS 300 (347-480V)</th>
<th>HBS 300</th>
<th>HBS 200 (347-480V)</th>
<th>HBS 200-WL</th>
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<td><strong>Voltage</strong></td>
<td>120 / 230 / 277 VAC, 50 / 60 Hz</td>
<td>347 / 480 VAC, 60 Hz</td>
<td>120 / 230 / 277 VAC, 50 / 60 Hz</td>
<td>347 / 480 VAC, 60 Hz</td>
<td>120 / 230 / 277 VAC, 50 / 60 Hz</td>
<td>120 / 230 / 277 VAC, 50 / 60 Hz</td>
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<tr>
<td><strong>Coverage</strong></td>
<td>360° up to 60 ft (18.2 m)</td>
<td>360° up to 60 ft (18.2 m)</td>
<td>100 x 13 ft (30.48 x 3.96 m) linear detection</td>
<td>100 x 13 ft (30.48 x 3.96 m) linear detection</td>
<td>360° up to 60 ft (18.2 m)</td>
<td>100 x 13 ft (30.48 x 3.96 m) linear detection</td>
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<td>76</td>
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</table>
High Bay Sensors

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.

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

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 (347-480 V): 347-480 VAC, 60 Hz

- Load Rating HBS 300: 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 - 200 fc (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): 3.9 x 3.9 x 2.6 in (99 x 99 x 66 mm)

- Nipple length: 0.62 in (15.75 mm)

- Warranty: 5 years

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

Ordering Details
- 64131 HBS 300 indv. Packaged
- 64130 HBS 300 bulk
- 64133 HBS 300 (347-480V) indv. 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.

Key features
- Aisleway coverage with up to 100 ft 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 adjustable 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

Coverage
100 x 13 ft (30.48 x 3.96 m) linear detection

Technical Information
Voltage HBS 200
120 / 230 / 277 VAC, 50 / 60 Hz
HBS 200 (347-480V) 347 / 480 VAC, 60 Hz
Load Rating HBS 200 320 VAC: 0-800 watt ballast, 1/4 hp
HBS 200 (347-480V) 5 A electronic ballast load
Sensing Technology passive infrared (PIR)
Time Delay Setting 15 seconds to 30 minutes
Light Level Setting .2 - 200 fc (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] 3.9 x 3.9 x 2.72 in (99 x 99 x 69.1 mm)
Nipple length 0.62 in (15.75 mm)
Warranty 5 years

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

Ordering Details
64121 HBS 200 indv. Packaged
64120 HBS 200 bulk
64123 HBS 200 (347-480V) indv. Packaged
64122 HBS 200 (347-480V) bulk

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

PIR 2 Pyros
Linear Coverage

Shown at 45ft mounting height orange = radial

Coverage
100 x 13 ft (30.48 x 3.96 m) linear detection
**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.

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**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

**Coverage**

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

**Technical Information**

- **Voltage:** 120 / 230 / 277 VAC, 50 / 60 Hz
- **Load Rating:**
  - 120 VAC: 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 - 200 fc (2 - 1,000 lux)
- **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 (L x W x D):** 5.54 x 5.54 x 2.86 in (115.3 x 115.3 x 72.7 mm)
- **Nipple length:** 0.58 in (14.7 mm)
- **Warranty:** 5 years

**Certifications**

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

**Ordering Details**

64134 HBS 300-WL indv. 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 ½" from the bottom edge of the fixture.

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

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 high bay 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

Coverage
100 x 10H (30.48 x 3.05 m) linear detection

Technical information
Voltage 120 / 230 / 277 VAC, 50 / 60 Hz
Load Rating 100 WAC: 0 - 400 watt ballast, tungsten, 1/4 hp
230 / 277 VAC: 0 - 600 watt ballast
Sensing Technology passive infrared (PIR)
Time Delay Setting 15 seconds to 30 minutes
Light Level Setting .2 - 200 fc (2 - 2,000 lux)
Environment IP65 rated

Warranty
5 years

Accessories
64307 EM 1 extender module

Ordering Details
64124 HBS 200-WL indv. Packaged

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

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 high bay 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)

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

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

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
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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>IS 360</th>
<th>IS 240-120</th>
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<tbody>
<tr>
<td>Outdoors</td>
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<td>•</td>
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<tr>
<td>For the wall</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>For the ceiling</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Installation height</td>
<td>8-12 ft (2.4 - 3.7 m)</td>
<td>8-12 ft (2.4 - 3.7 m)</td>
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<td>Voltage</td>
<td>120 VAC, 60 Hz</td>
<td>120 VAC, 60 Hz</td>
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<td>Coverage</td>
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<td>240°</td>
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<tr>
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<td>2 dual element infrared pyroelectric detectors</td>
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<tr>
<td>Switching zones</td>
<td>720</td>
<td>304</td>
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<tr>
<td>Page</td>
<td>50</td>
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</tr>
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</table>
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.

Key features
- 360° coverage with up to 40 ft reach
- 720 switching zones for highly accurate small motion detection
- Coverage area may be customized with supplied snap-on shrugs 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

Technical information
- Voltage: 120 VAC, 60 Hz
- 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 - 200 fc (2 - 2,000 lux)

Environment
- IP54 raintight rated,
- -4 °F to +122 °F (-20 °C to +50 °C)

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

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

Passive Infrared Technology

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

Key features
- 240° coverage with up to 40 ft 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

Technical information
- Voltage: 120 VAC, 60 Hz
- 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 - 200 fc (2 - 2,000 lux)
- 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 (L x W x D): 3.75 x 2.33 x 3.33 in (95.25 x 59.2 x 84.6 mm)
- 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.
Fixture Integrated Controls

HFLUM2-WR

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.

Key features

• 360° coverage; reach is adjustable from 3.3 to 26 ft
• High frequency technology emits 5.8 GHz 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
• 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, 50/60 Hz
Load Rating 0-800 watts @ 120 VAC, 50/60 Hz incandescent, magnetic, or electronic ballasts
D-1/4 HP
0-1,200 watts @ 230/277 VAC, magnetic or electronic ballasts
D-650 watts @ 120/230/277 VAC, 50/60 Hz LED
Transmitter Power 1 mW
Power Consumption < 0.5 W
Time Delay Setting 30 seconds to 30 minutes
Light Level Setting .2-200 fc (2-2,000 lux)
HF System 5.8 GHz
Environment requires enclosure.
Temperature -4°F - 185°F (-20°C - 85°C)
Installation Height 8 - 10 ft (2.4 - 3 m)
Dimensions (L x W x D) 4.2 x 1.7 x 1.8 in (107 x 42 x 44.5 mm)
Warranty 5 years

Certifications

C-UL-US Listed, RoHS Compliant, CA Compliant
Contact: 10049 - WLU - SR10, IC - 85026A - SR13
Ordering Details

65122 HFLUM2-WR

120/230/277 VAC, 50/60 Hz
### Summary of order numbers

**Presence Detectors**

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<td>64470</td>
<td>IR Quattro HD COM2-24</td>
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<td>IR Quattro HD COM1-WR</td>
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<td>IR Quattro HD KNX</td>
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**Presence Detectors Accessories**

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<td>Wire guard cage</td>
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<tr>
<td>65350</td>
<td>IR user remote control RC 4</td>
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<td>65800</td>
<td>IR service remote control RC 8</td>
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<td>65340</td>
<td>CR-2025 (Battery for RCs)</td>
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<td>11863</td>
<td>Surface mount adapter (SM) KNX</td>
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<td>IR service remote control RC 9</td>
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**Presence Detectors Accessories (IS Series)**

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<td>IS 345-24 white</td>
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**Presence Detectors Accessories (IS Series Accessories)**

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<td>Black Decorative Cover (SSC-B)</td>
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**Power Packs**

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<td>66190</td>
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<td>IR WLS 2-LA light almond</td>
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**Power Packs (US Series)**

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**Power Packs (IR Series)**

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**Power Packs (DT Series)**

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**Power Packs (US Series)**

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## Summary of order numbers

### High Bay Sensors

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### High Bay Sensors Accessories

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### Motion Detectors (outdoor)

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### Integrated Controls

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<td>65122</td>
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</table>
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
STEINEL Customer Services
Phone: (952) 888-5950
(800) 852-4343
Fax: (952) 888-5132
Email: sales@steinel.net

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

www.steinel.net
• Product overview
• Operating instructions for downloading
• Datasheets
• Wiring diagrams