

Lighting Control - CASAMBI

Sensors with wireless communication



IR detector



IR detector ceiling



Acoustic detector

CASAMBI



Extronic Elektronik

Experts in detection since 1974

Communication

Unique detection technology that, together with radio protocol and mesh network, controls lighting!

The sensors communicate with the fixtures via the CASAMBI radio system. All settings are made via the Casambi app where you can, for example, create different light levels for different times of the day.

With Casambi, you can save miles of cabling and get a system that can be easily changed in the future, e.g., splitting an existing space into two. This can be done without the need to install new cabling.



PIR Sensors



Sensor PIR PD43 CASAMBI

Detection: **PIR**

Detection range: **40 x 40 meters**

Operating voltage: **12-24VDC, 12VAC, DALI**

Power consumption: **22mA**

Relay output: **Normally closed contact. 100 mA / 24V AC/DC**

Article no: 13223 | E-number: 13 016 21

Sensor PIR 360° PDC43 CASAMBI

Detection: **PIR**

Detection range: **360°, 8.7 meters at a height of 3 meters**

Operating voltage: **12-24VDC, 12VAC, DALI**

Power consumption: **22mA**

Relay output: **Normally closed contact. 100 mA / 24V AC/DC**

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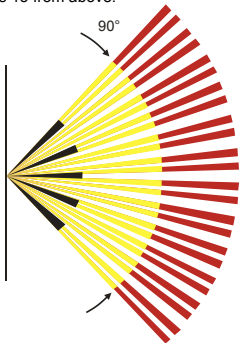
Applications

PD43/PDC43 are passive infrared sensors designed for presence detection and control of DALI and Casambi fixtures. As long as a sensor is connected to the DALI bus, it can control DALI fixtures. The control of Casambi fixtures is done wirelessly via radio protocol in a mesh network.

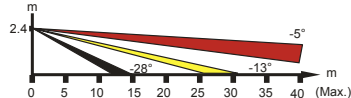
Mesh technology where all Casambi products function as both signal amplifiers and information distributors. This means that the system is robust and allows the system to continue functioning even if a unit fails.

Detection area for PD43 with lens no. 15

Lens 15 from above.

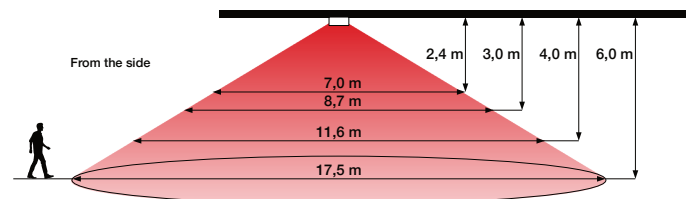


From the side



Detection area for PDC43

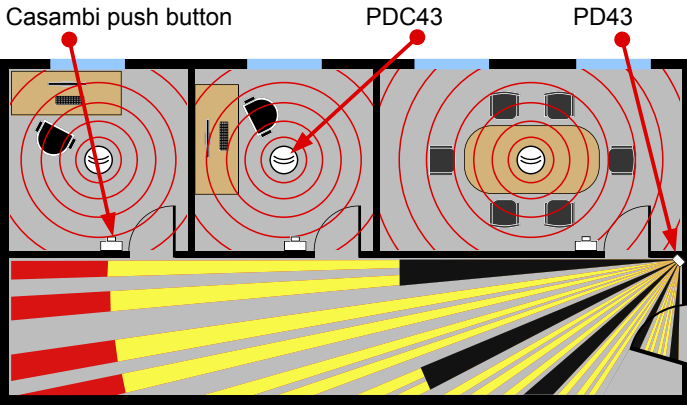
From the side



Applications with PIR Sensors

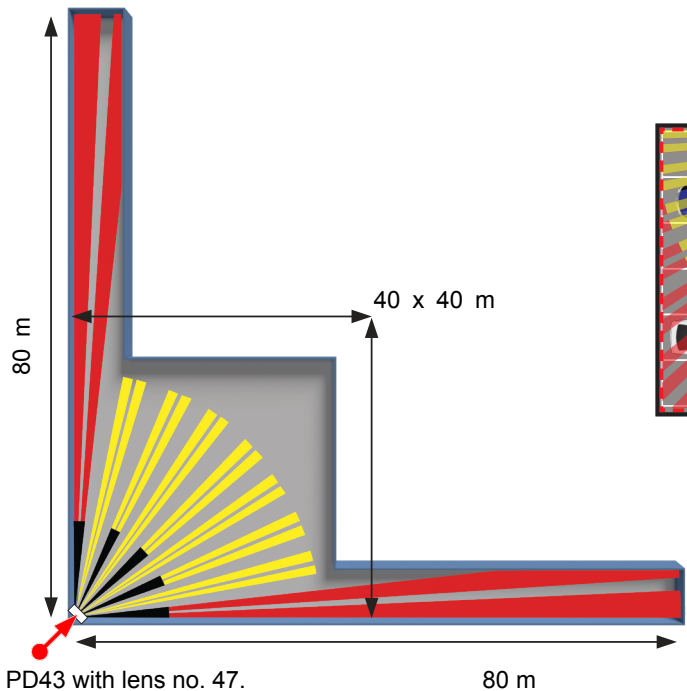
Office Spaces

In office spaces with various types of rooms and corridors, the choice of sensors is adapted depending on the layout of the rooms. In offices and conference rooms, the ceiling sensor PDC43 works well and in corridors, it is better to choose the corner-mounted sensor PD43.



Corridor

In corridors up to 40 meters long, the standard lens no. 15 can be used. For longer corridors, lens no. 47 can be used, and then the PD sensor can reach up to 80 meters.



PD43 with lens no. 47.

Lenses

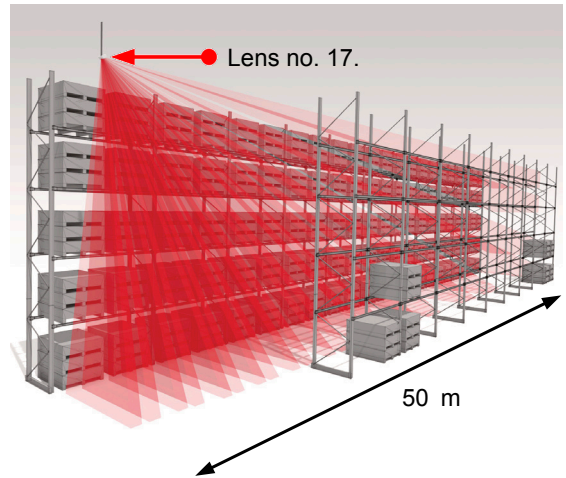
To adapt the PD sensor to the respective space, the lens can be changed. The PD sensors are delivered with standard lens no. 15. There are several different lenses available for the sensor to optimize detection..

Please contact Extronic for any questions.

Number: 15	Number: 17	Number: 47	Number: 51
Number of zones: 58	Number of zones: 24	Number of zones: 28	Number of zones: 168
Angle: 90°	Angle: 100°	Angle: 90°	Angle: 104°
Max. area: 40 x 40 m	Max. area: 50 x 50 m	Max. area: 80 x 80 m	Max. area: 16 x 16 m

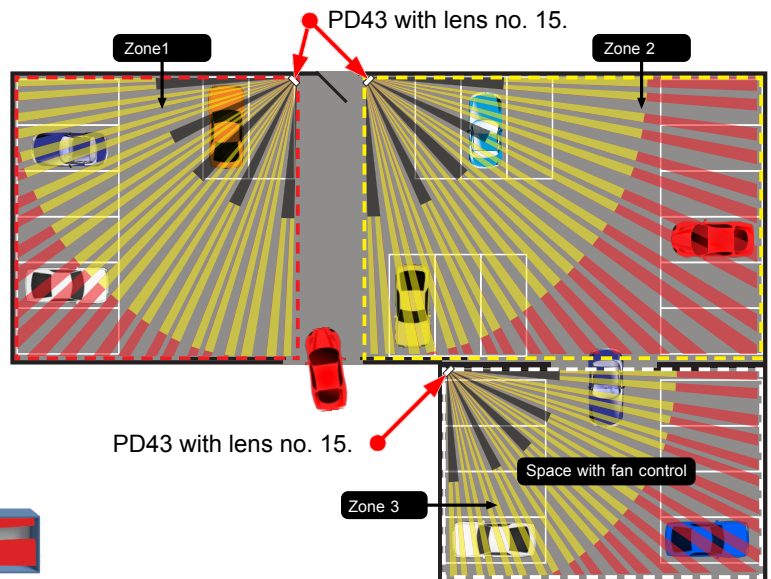
Warehouse Aisles

Lens no. 17 can detect up to 50 meters long warehouse aisles. The mounting height can be up to 25 meters.



Garage

With Casambi sensors, it is easy to divide a garage into different zones in the Casambi app.



Acoustic Sensor AD46 CASAMBI



Acoustic Sensor AD46 CASAMBI

Detection: **Sound**

Detection range: **50 m in diameter**

Operating voltage: **12-24VDC, 12VAC, DALI**

Power consumption: **28mA**

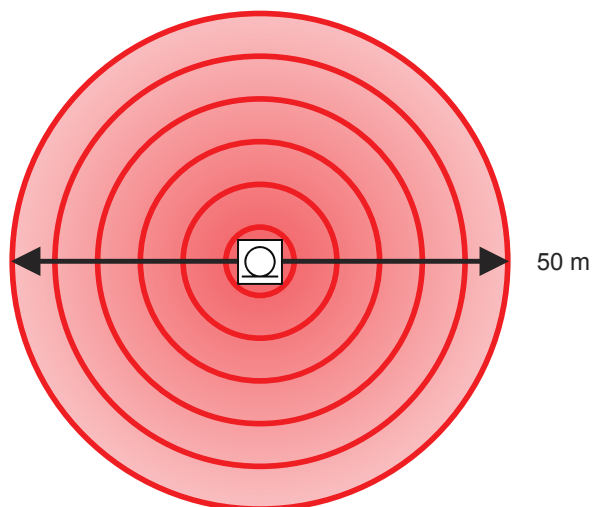
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Features of AD46 CASAMBI

- Detection range: maximum reach 50 m in diameter depending on the space and furnishings.
- Detects door opening through pressure change (LF sound).
- Detects audible sounds (HF sound), such as speech, footsteps, key jangling, etc.
- Automatic activation via detector or manual activation via push button.
- Adjustable sensitivity.
- HF-block: only activates lighting through low-frequency sound.
- HF sound: subsequently helps to keep the lighting on.

Detection Range

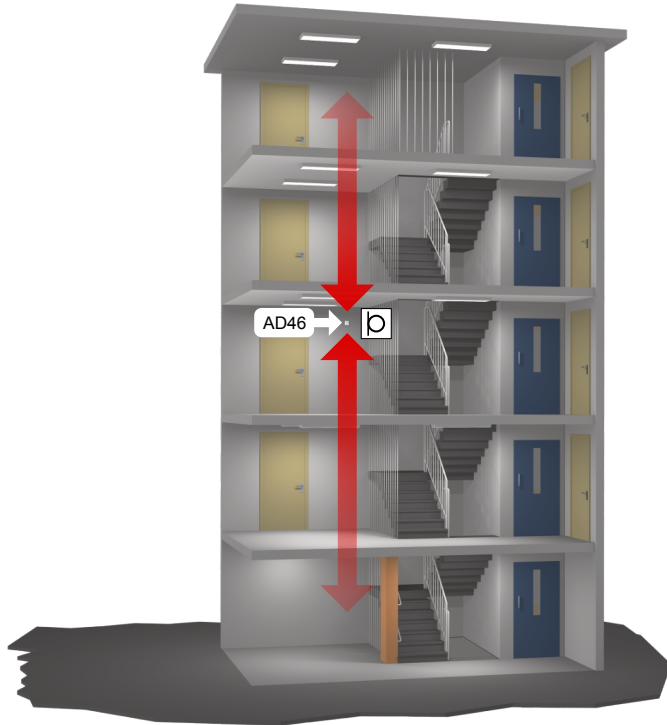
Reach up to 50 m in diameter depending on the space and furnishings.



Application examples with acoustic detection

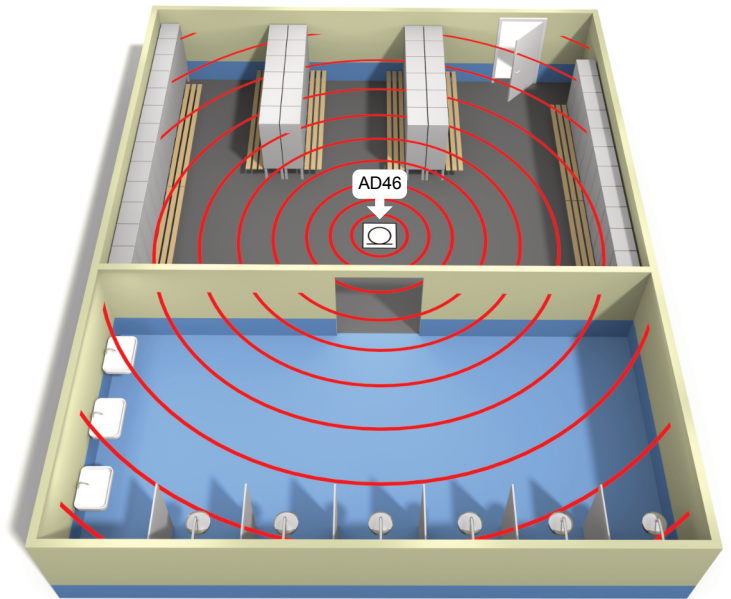
Stairwells

Stairwells are often an enclosed space accessed through a number of doors. This makes acoustic technology advantageous, the only technology that provides illumination at the same time as the door opens. One to two acoustic sensors are normally sufficient to cover a stairwell with five floors, depending on the space and furnishings.



Shower / Changing Rooms

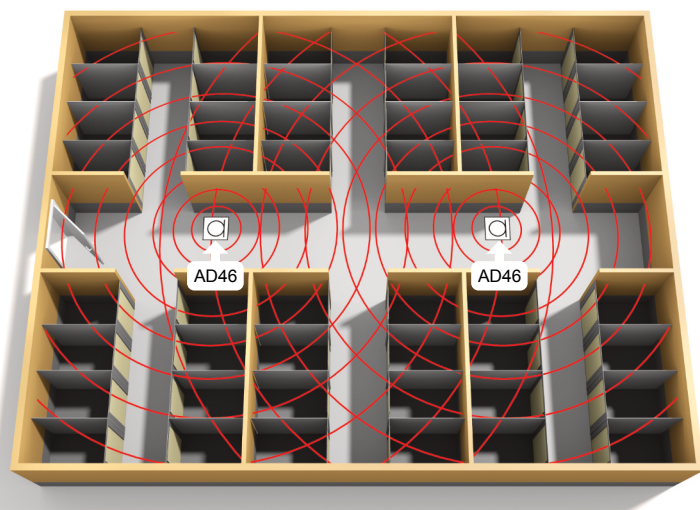
Changing rooms are an excellent example of a space where acoustic technology is superior. The acoustic sensor detects presence behind clothes and around lockers which a PIR sensor would have missed. The same sensor can detect presence in both changing rooms and shower rooms.



Basement Corridor, Attic Storage

In enclosed basement and attic spaces, acoustic technology is unmatched, the only technology that provides illumination at the same time as the door to the space opens.

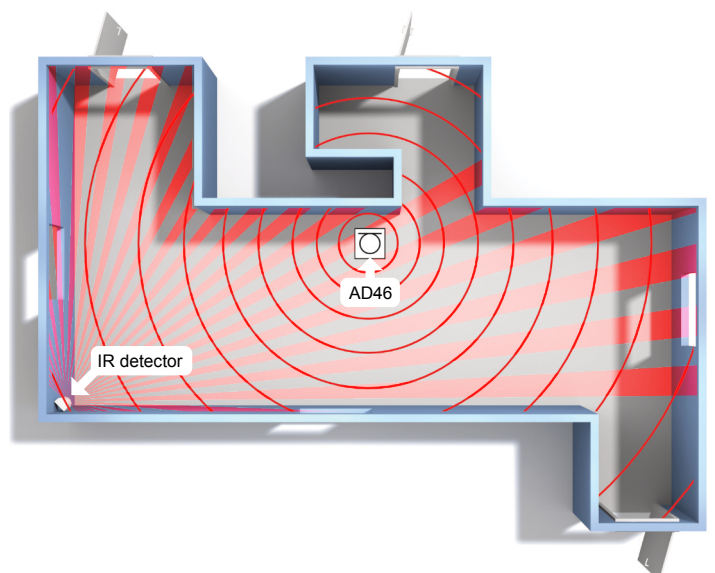
Presence detection also occurs into open storage areas and through grille doors.



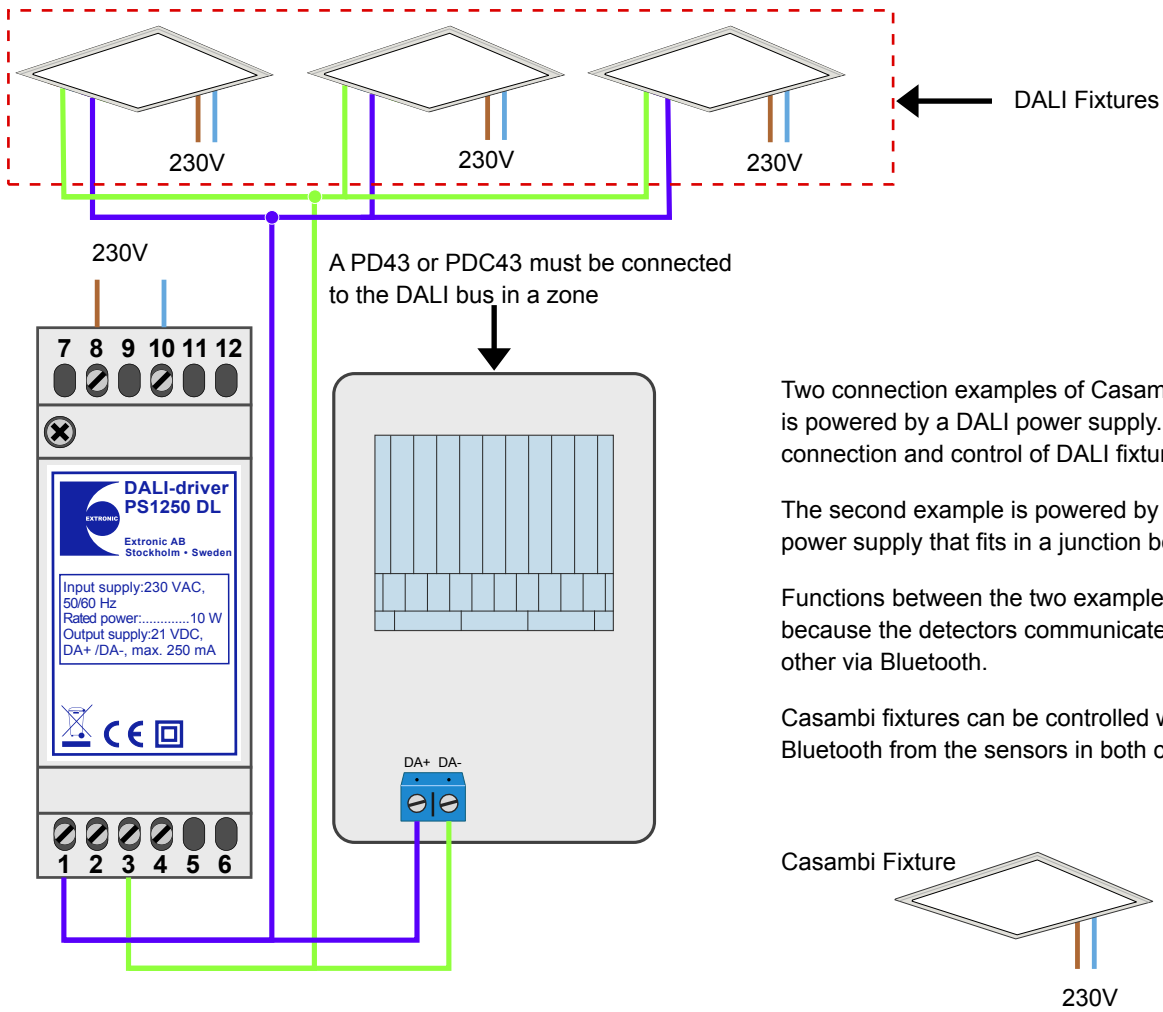
AD46 as a Supplementary Detector

Acoustic sensors are used as supplementary sensors in combination with PIR detection in, for example, corridors where one or more entrances are hidden from the PIR sensor.

AD46 detects the low frequencies that occur when a hidden door opens and turns on the lighting. Solely acoustic detection does not always work satisfactorily, for example, due to wall-to-wall carpets that dampen the higher frequencies.



Connection Examples



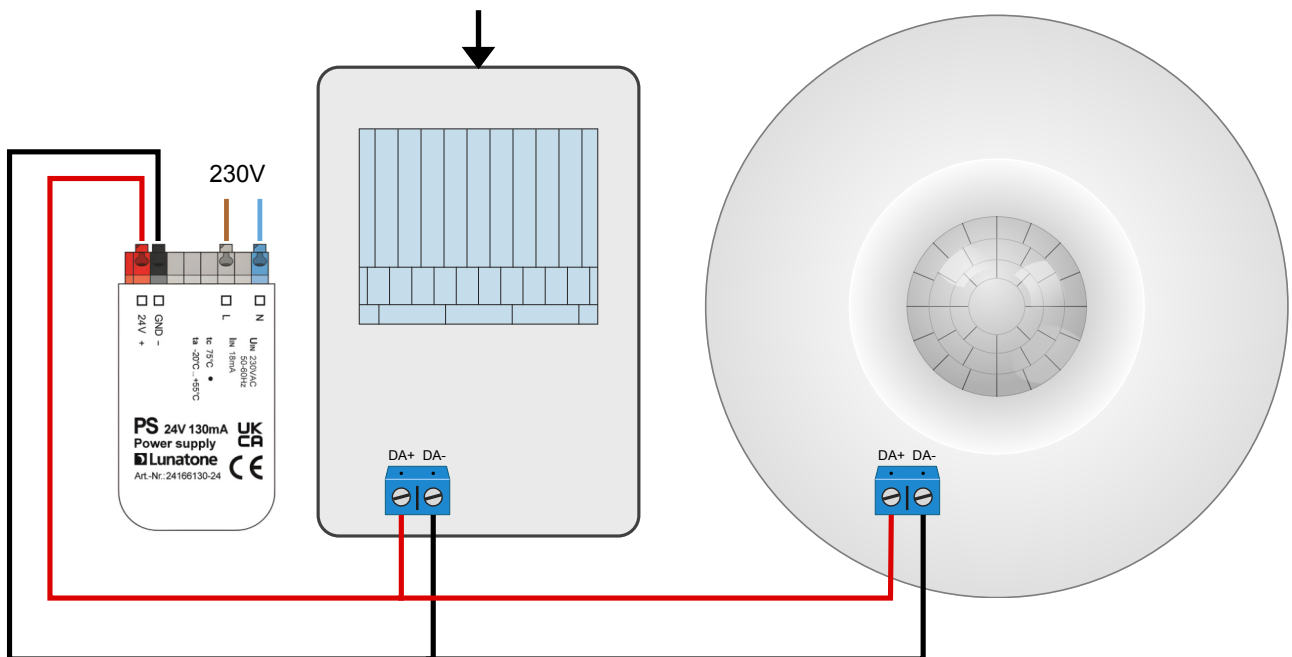
Two connection examples of Casambi sensors. The first is powered by a DALI power supply. This allows for the connection and control of DALI fixtures on the DALI bus.

The second example is powered by a smaller 24VDC power supply that fits in a junction box.

Functions between the two examples are possible because the detectors communicate wirelessly with each other via Bluetooth.

Casambi fixtures can be controlled wirelessly via Bluetooth from the sensors in both connection examples.

Maximum 5 PD43/PDC43 per 24V power supply





Extronic Elektronik

Proffs på detektering sedan 1974

We also sell these accessories



Input Controller 4CH Casambi
Art. no: 13270



24V Power Supply 130mA Lunatone
Art. no: 20488



Powersupply DALI PS1250 DL
Art. no: 18510



Powersupply DALI PS1251 DL
Art. no: 18514

Universal Mounts

- ▶ BR1: Adjustable 30° vertically, 45° horizontally.
- ▶ BR2: When the sensor needs to be tilted forward/backward for corner mounting, adjustable 30° vertically, 45° horizontally.
- ▶ BR3: For ceiling mounting, adjustable 30° vertically, 45° horizontally.



BR1

Art. No: 13085



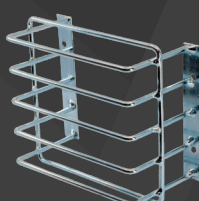
BR2

Art. No: 13086



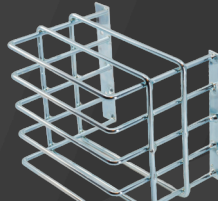
BR3

Art. No: 13087



SGV1

Art. No: 13036



SGV2

Art. No: 13037



SGV3

Art. No: 13038



SGH1

Art. No: 13039

Protection Grilles for PD Sensors

For mounting sensors on walls or in corners in exposed environments e.g., gymnastics and sports halls. There are three types of stainless steel protection grilles.

The grilles are intended for PD Sensors but also fit other detectors.



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