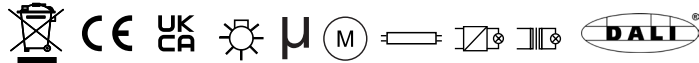


# EN Installation Manual SRD2PB



**Warning!**

High voltage. Risk of electric shock. Installation should only be performed by a qualified electrician. Ensure that the power supply is turned off to the sensor before connecting.

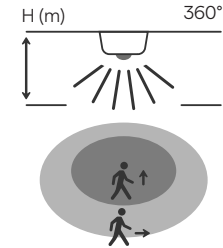


Sensor V-sense SRD2PB is an active Casambi-Ready PIR sensor (infrared presence sensor) with a built-in lux meter, DALI output, relay output, and two push-button inputs.

SRD2PB is designed so its multifunctionality enables complete control of most rooms without the need for other Casambi devices.

SRD2PB can control up to 20 DALI drivers (40mA) and break non-dimmable loads up to 10A (cos  $\Phi$  =1).

**Detection pattern (m)**



|            |  |  |  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|            | Movement across                                                                   | Movement towards                                                                  | Stationary activity                                                               |
| Height (m) | Across (m)                                                                        | Towards (m)                                                                       | Stationary (m)                                                                    |
| 2,4        | Ø 12                                                                              | Ø 6                                                                               | Ø 4                                                                               |
| 2,8        | Ø 14                                                                              | Ø 7,5                                                                             | Ø 4                                                                               |
| 3,2        | Ø 16                                                                              | Ø 9                                                                               | Ø 4                                                                               |
| 3,6        | Ø 18                                                                              | Ø 10                                                                              | Ø 4                                                                               |
| 4          | Ø 20                                                                              | Ø 11,5                                                                            | Not recommended                                                                   |
| 5          | Ø 25                                                                              | Ø 14,5                                                                            | Not recommended                                                                   |

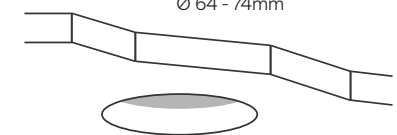
• In accordance with IEC 63180

## Installation

This unit is designed to be mounted in the ceiling.

- Do not place the unit where direct sunlight can reach the sensor.
- Do not place the sensor within 1 meter of lighting, forced air heating, or ventilation.
- Do not attach the sensor to an unstable or vibrating surface.
- Movement is best detected when the ambient temperature differs from the human body's temperature, therefore use within -20 to 35°C for ambient temperature.
- For stationary work, installation directly above the workplace is recommended.

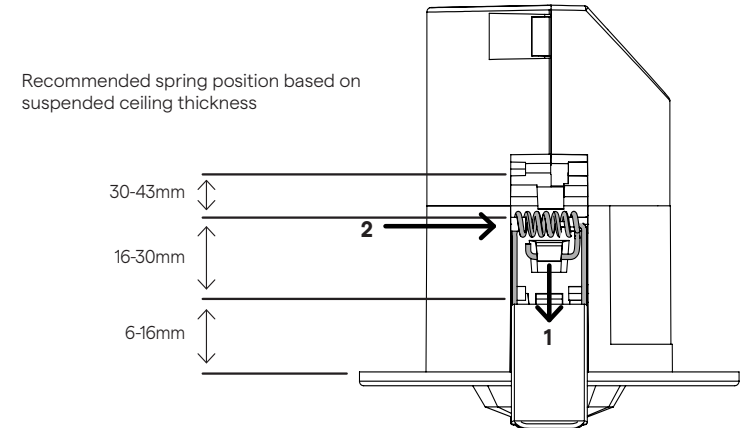
## Recommendations for hole cutting



Hole cutting over 70mm requires sharp edges to prevent the hole from being visible.

Depending on the thickness of the ceiling, the position of the springs on the sensor can be moved to ensure optimal mounting.

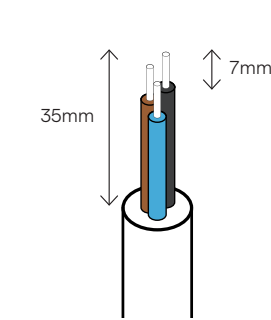
Recommended spring position based on suspended ceiling thickness



## Changing the spring position

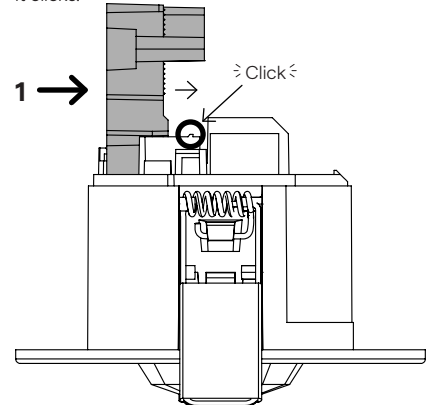
1. Remove the spring bend from the plastic hook by pressing it down.
2. Compress the spring from the right side and remove it from the left plastic peg.
3. For reassembly of the spring, perform steps 1 & 2 in reverse order.

## Recommendations for cable stripping

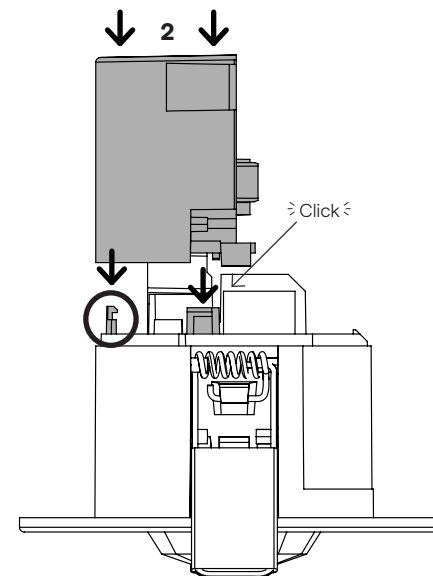


## Mounting & strain relief (for recessed mounting of the sensor)

1. Press the plastic part according to the picture until it clicks.



2. Press the plastic part according to the picture until it clicks. Ensure that the plastic hook circled in the picture slides into the pocket on the plastic part.



**Tip!** Use the included cable ties to organize the cables. This is done by inserting the cable tie into one end of the holes so it comes out on the other side.

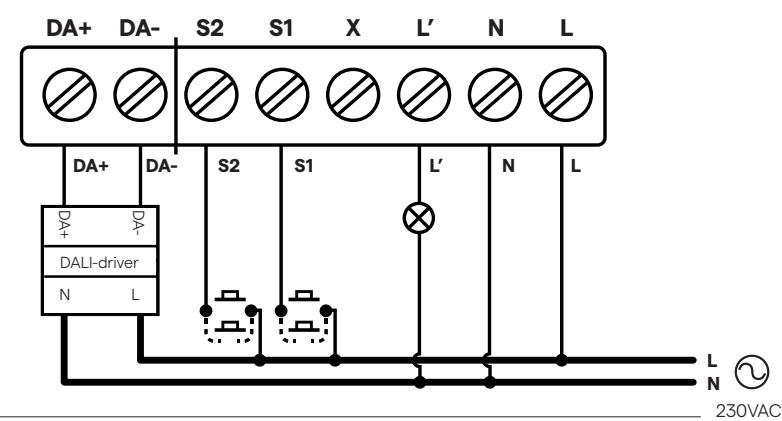
3. Mount the strain relief (fits Ø8mm – Ø13mm outer dimension).

Set the strain relief bracket in the correct direction so it grips the cable dimension you are using.

## Wiring diagram

The X-terminal is intended as a crossover terminal.

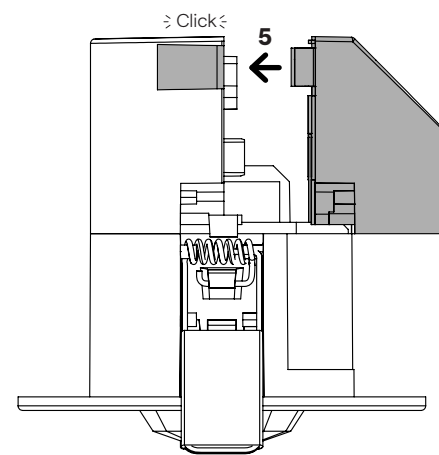
**Tip!** Since the terminal is removable, it can be detached to easily connect the wiring separately from the sensor, and when everything is connected, the terminal can be pressed back into place in the sensor.



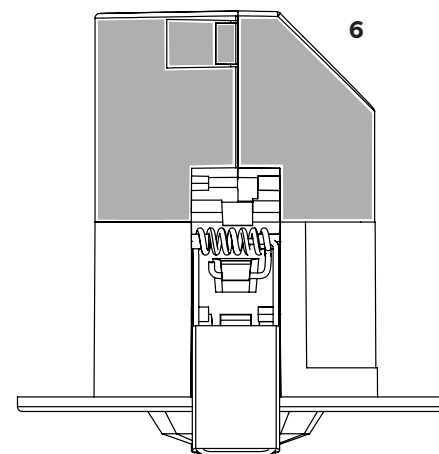
4. Press out the appropriate hole diameter (pre-punched Ø12 & Ø16mm) for the cable.

**Tip!** When installing with flex tube, use a pipe coupling to ensure that the flexible conduit is held in place.

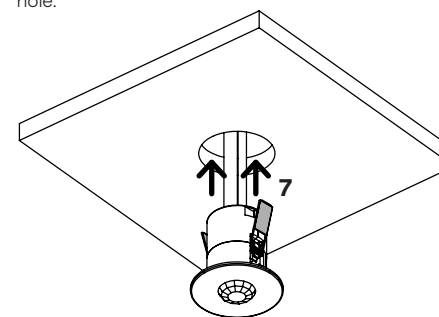
5. Press the plastic part according to the picture until it clicks.



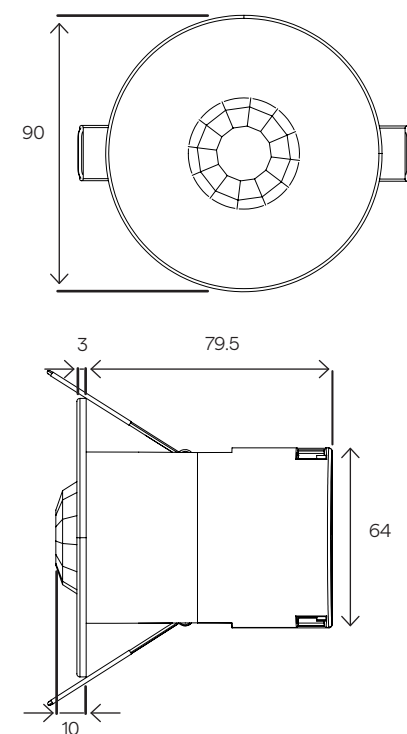
6. Check that all parts are properly assembled and no gaps are visible. Otherwise, press on the affected parts as needed.



7. Bend up the springs and insert the sensor through the hole.



## Dimensions (mm)



## Changing profile

You can change the profile of the sensor by clicking on the unit in the Casambi app under "Nearby devices". The option "Change profile" will then appear.

## Profiles:

SRD2PB DALI Broadcast: Simultaneous control of DALI-drivers

SRD2PB DALI 4 groups: Group control of DALI-drivers

SRD2PB DALI 8 groups (No Relay): Group control of DALI-drivers. No relay functionality.

SRD2PB DALI TW DT6: Control one DALI-driver incl. tunable white DT6

SRD2PB DALI TW DT8: Simultaneous control of DALI-drivers incl. colour+white DT8

SRD2PB DALI RGB DT6: Control one DALI-driver incl. colour DT6

SRD2PB DALI RGB DT8: Simultaneous control of DALI-drivers incl. colour DT8

SRD2PB DALI RGBW DT6: Control one DALI-driver incl. colour+white DT6

SRD2PB DALI RGBW DT8: Simultaneous control of DALI-drivers incl. colour+white DT8

SRD2PB DALI RGBTW DT6: Control one DALI-driver incl. colour+tunable white DT6

SRD2PB DALI RGBTW DT8: Simultaneous control of DALI-drivers incl. colour+tunable white DT8

## Load

The breaking capacity of 10A applies to resistive load. Different types of loads have different amounts of inrush current at startup and voltage spikes at shutdown. To maximize the lifespan of SRD2PB, the following values in the table below are recommended (provided the installation environment is not too warm).

| Load                              | PF   | Effect | VA     | Current |
|-----------------------------------|------|--------|--------|---------|
| Resistive load (resistive heater) | 1    | 2300W  | 2300VA | 10A     |
| Halogen/incandescent 230V         | 1    | 1800W  | 1800VA | 7,8A    |
| LED loads                         | 0,9  | 1000W  | 1122VA | 4,35A   |
| Fluorescent, uncompensated        | 0,3  | 430W   | 1430VA | 6.25A   |
| Fluorescent, compensated          | 0,85 | 935W   | 1085VA | 5A      |
| Low voltage halogen, electronic   | 0,8  | 935W   | 1085VA | 5A      |
| Low voltage halogen, conventional | 0,95 | 740W   | 740VA  | 3A      |
| Energy-saving lamps               | 0,6  | 300W   | 500VA  | 2.5A    |
| Motors and fans                   | 0,7  | 380W   | 575VA  | 2.5A    |

## Heat

SRD2PB is equipped with overheating protection. During longer continuous operation with high load in a warm environment, the sensor will shut off. If the sensor is installed in a warm environment, the relay cannot be loaded to the maximum. Note that long cable lengths will generate more heat due to the cable's resistance.

## Range

By using MESH network technology, you only need to be within range (max 30 meters) of one device to control all devices. MESH technology allows you to build large-scale installations with a large number of fixtures and easily control them through, for example, your smartphone. We recommend 10 meters as all installations have different conditions.

Effective range is strongly dependent on the environment and obstacles, such as walls and building materials.

Metal will significantly block the radio signal, so avoid enclosing in metal or placing the unit near large metal structures.

Note that even a Casambi device without load can be used in the network to strengthen network strength through MESH technology.

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Designation                         | SR2PB                                                                 |
| Model series                        | V-sense                                                               |
| Article number                      | V-44B0306-036Y                                                        |
| E-number                            | 13 020 57                                                             |
| Voltage in                          | 220-240VAC                                                            |
| Frequency in                        | 50Hz, 60Hz                                                            |
| Radio frequencies                   | 2402MHz-2480MHz                                                       |
| Maximum radio frequency effect      | 8dBm                                                                  |
| Standby effect                      | <0.5W                                                                 |
| Lux range                           | 1-999lux                                                              |
| Number of push-button inputs        | 2                                                                     |
| Maximum breaking capacity           | 10A (cos $\approx$ 1)                                                 |
| Maximum inrush current relay output | 130A, 10ms                                                            |
| Memorizes last set position         | Yes                                                                   |
| Overheating protection              | Yes                                                                   |
| Mounting                            | Recessed (surface mounting achieved with accessories sold separately) |
| Working air humidity                | 0...80%, non-condensing                                               |
| Working temperature                 | -20°C - +35°C                                                         |
| Dimensions (WxH)                    | 90x81mm                                                               |
| Weight                              | 124g                                                                  |
| Cable area                          | 1-2.5mm <sup>2</sup> (28~12AWG)                                       |
| Cable outer diameter                | 7mm-13mm                                                              |
| Housing material                    | PC/ABS                                                                |
| Insulation class                    | IP20                                                                  |
| Enclosure class                     | II                                                                    |
| Approvals                           | CE, UKCA                                                              |

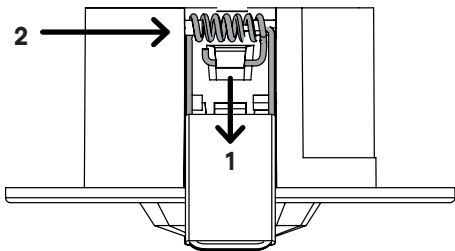
# EN Installation Manual S20BOX

The S20BOX enables surface-mounted installation of the V-sense SRD2PB and V-sense SR2PB sensors.

## Installation procedure

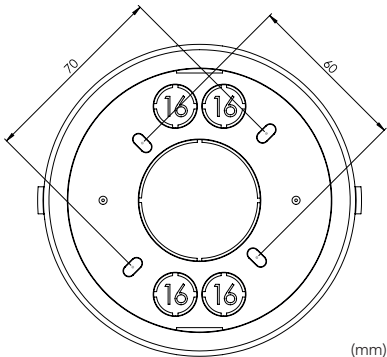
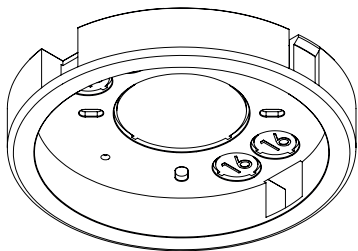
### Disassembling the Spring

1. Remove the spring bend from the plastic hook by pressing it downward.
2. Compress the spring from the right side and detach it from the left plastic pin.

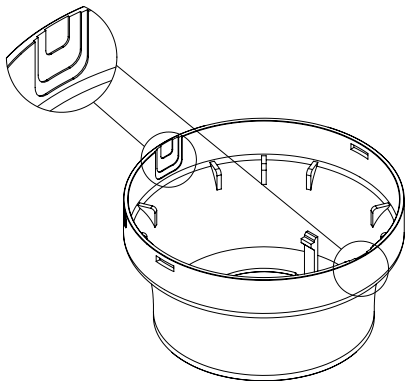


### Mount the Mounting Plate in the Ceiling

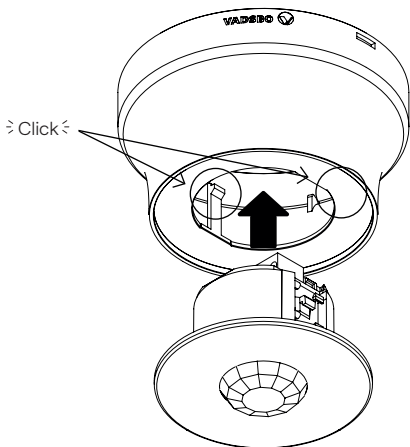
**Tip!** The holes are compatible with ceiling and wall mount junction boxes.



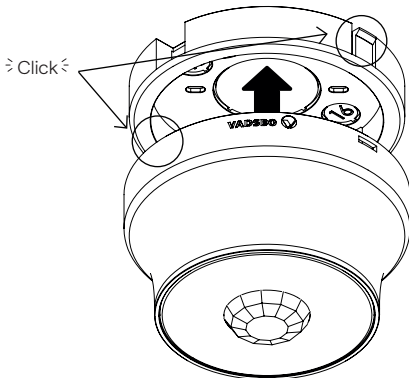
### Cut out opening for cable



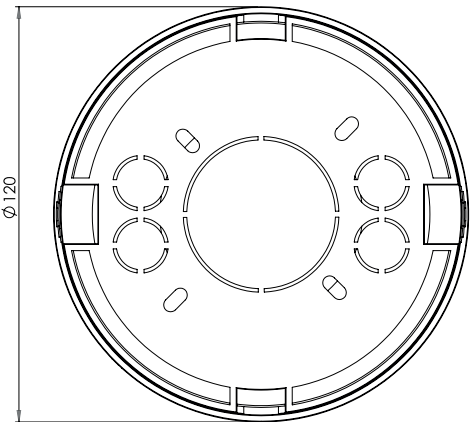
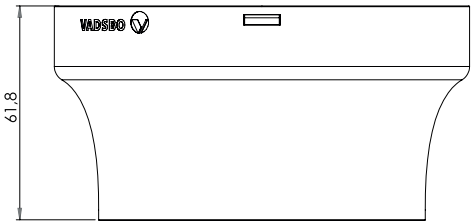
### Press the sensor into the box



### Press the box against the base plate



### Dimensions (mm)



### Technical Data

|                     |                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------|
| Designation         | S20BOX                                                                                                      |
| Model series        | V-sense                                                                                                     |
| Article number      | V-65F1202-001N                                                                                              |
| E-number            | 14 387 01                                                                                                   |
| Mounting            | Surface-mounted                                                                                             |
| Material            | PC                                                                                                          |
| Insulation class    | IP20                                                                                                        |
| Color               | RAL9003                                                                                                     |
| Dimensions (W x H)  | 120 x 61.8 mm                                                                                               |
| Cable entry         | Cut-outs for 7mm, 13mm, and 16mm<br>16mm knock-outs for flexible conduit<br>45mm knock-out for junction box |
| Ambient temperature | -20 to +35°C                                                                                                |
| Weight              | 102g                                                                                                        |
| Flame retardancy    | V-0                                                                                                         |
| Approvals           | CE                                                                                                          |