



AUS electronics



Curtarolo (Padova) ITALY
www.avselectronics.com



ONE **PA** **PA HP**

Indoor and outdoor passive
infrared detector

ONE **DT** **DT HP**

Indoor and outdoor passive infrared and
microwave detector



ONE **PA WS**

Indoor and outdoor wireless passive
infrared detector

CERTIFIED QUALITY
SYSTEM
UNI EN ISO 9001:2008



General characteristics

OnE DT and OnE DT HP are dual-technology, microprocessor-controlled volumetric sensors in which the combination of a **Fresnel passive infrared lens** and a **planar microwave** create very effective protection against false alarms in critical environments. **OnE DT and OnE DT HP** are recommended for external protection.

OnE PA, OnE PA HP and OnE PA WS are microprocessor-controlled volumetric sensors with **Fresnel passive infrared lens**.

OnE PA WS integrates a **single-frequency radio transmission module** that is compatible with receivers and controllers from AVS Electronics.

All models are equipped with:

- **Thermal compensation**, the sensor automatically adjusts the range as the ambient temperature changes, however, despite this, the performance of the sensor can vary significantly depending on the particular temperature interval.
- **Accelerometer**, for the reporting tear and disorientation (does not detect vibration). Any unauthorized removal is signalled by the sensor as a tamper (option enabled by DEFAULT).
- **Anti-masking**, to detect obstacles that are placed to cover the sensor.

Connections (Models OnE PA, OnE DT, OnE PA HP and OnE DT HP)

The connections of the models **OnE PA** and **OnE DT** are made through a C-NC contact for signalling the Alarm and a T-T contact for the signalling of the Tamper.

The connections of the models **OnE PA HP** and **OnE DT HP** are made through **RS485 serial**, to the **XSATHP** satellite or directly to the **AVS controllers provided**.

Configuration

Models **OnE PA, OnE DT** and **OnE PA WS** are configured through the on-board **DIP SWITCHES**.

Models **OnE PA HP** and **OnE DT HP** can be configured through the on-board **DIP SWITCHES** or with the **XWIN** software.

First Power-On

The sensor is blocked for about 60 seconds, during which the LEDs flash and the anti-masking circuit performs a self-regulation. At this stage, it is essential that the cover be regularly installed to allow the sensor to regulate itself to the correct values.

AND operation (Models OnE DT and OnE DT HP)

The microprocessor constantly analyzes the signals coming from the infrared and microwave sections, which are thus compared with the preset parameters; only when both technologies go into alarm within a time interval of about 10 seconds, will the alarm relay be activated and the blue LED light up.

ANTI-MASKING Operation (Not active with TAMPER OPEN):

When the sensor detects an obstacle, a time delay is activated during which the yellow LED flashes. If, at the end of this time, the obstacle is not removed or the sensor goes into alarm, the Anti-mask signal is activated.

NOTE: However, this function does not guarantee that the sensor cannot be masked.

NOTE: Keep the sensor lens free of dust or other filtering material that could alter its functioning.

NOTE: the instructions regarding the **YELLOW LED** refer to all models except the **OnE PA WS**.

INFRARED ANTI-MASKING Function

The infrared anti-masking circuit, which is present in all sensor models, consists of an active infrared RX receiver and TX transmitter located above and below the PIR sensor, which detects obstacles (adhesive tape and almost all paints) placed in front of the sensor up to a distance of about 10 cm. The signal is generated after about 30 seconds from the detection of the obstacle, if the sensor does not generate an alarm in the meantime.

The signal is reset upon the removal of the obstacle.

MICROWAVE ANTI-MASKING Function

The microwave anti-masking circuit, present in models **OnE DT** and **OnE DT HP**, provides an alarm signal if microwave reflective material (such as metal, wood, plastic, etc.) is brought within less than 1 metre. The signal is generated after about 1 minute from the detection of movement within 1 metre, if the sensor has not generated an alarm in the meantime.

The signal is reset as soon as an alarm is generated.

DIRTY LENS operation (Models OnE PA HP and OnE DT HP)

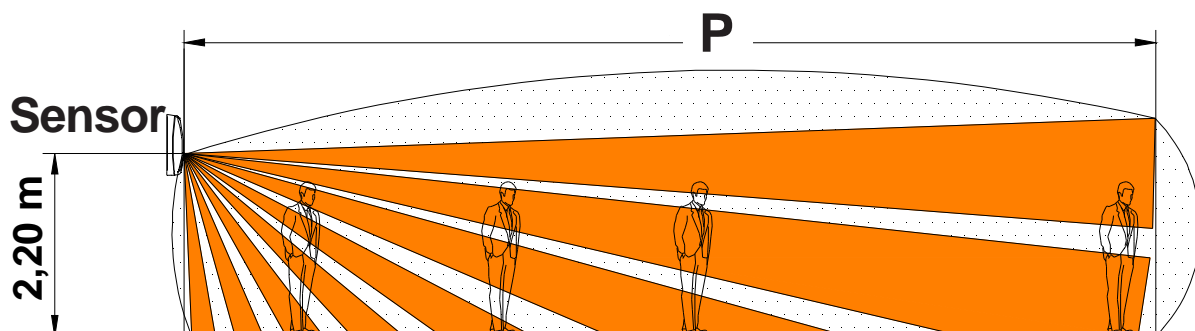
When the Anti-mask circuit detects that the average value of the signal stored in a certain time interval has undergone a change of about 20%, the signal is sent to the controller and the **yellow LED** flashes slowly.

To restore the Lens dirty signal after cleaning the lens, you must power the sensor off and on.

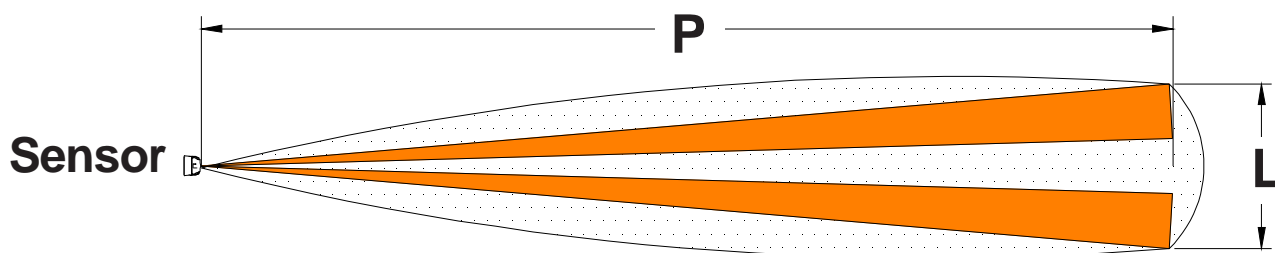
Receiving channels

The sensors have a lens that provides curtain coverage of a maximum of 12 metres for the One DT and OnE DT HP sensors and 8 metres for the OnE PA, OnE PA HP and OnE PA WS sensors with an angle of detection of about 10°. The special shape of the lens also protects the area below (as shown in the figure).

Side view



Overhead view



COVERAGE		
P	12 metres	for OnE DT and OnE DT HP
	8 metres	for OnE PA, OnE PA HP and OnE PA WS
L	2 metres	for OnE DT and OnE DT HP
	1,8 metres	for OnE PA, OnE PA HP and OnE PA WS



The reference to the microwave section in the drawings is to the OnE DT and OnE DT HP models



The range of the infrared section could be significantly different from that shown as a function of the ambient temperature.



The OnE DT and OnE DT HP models are recommended for outdoor protection.

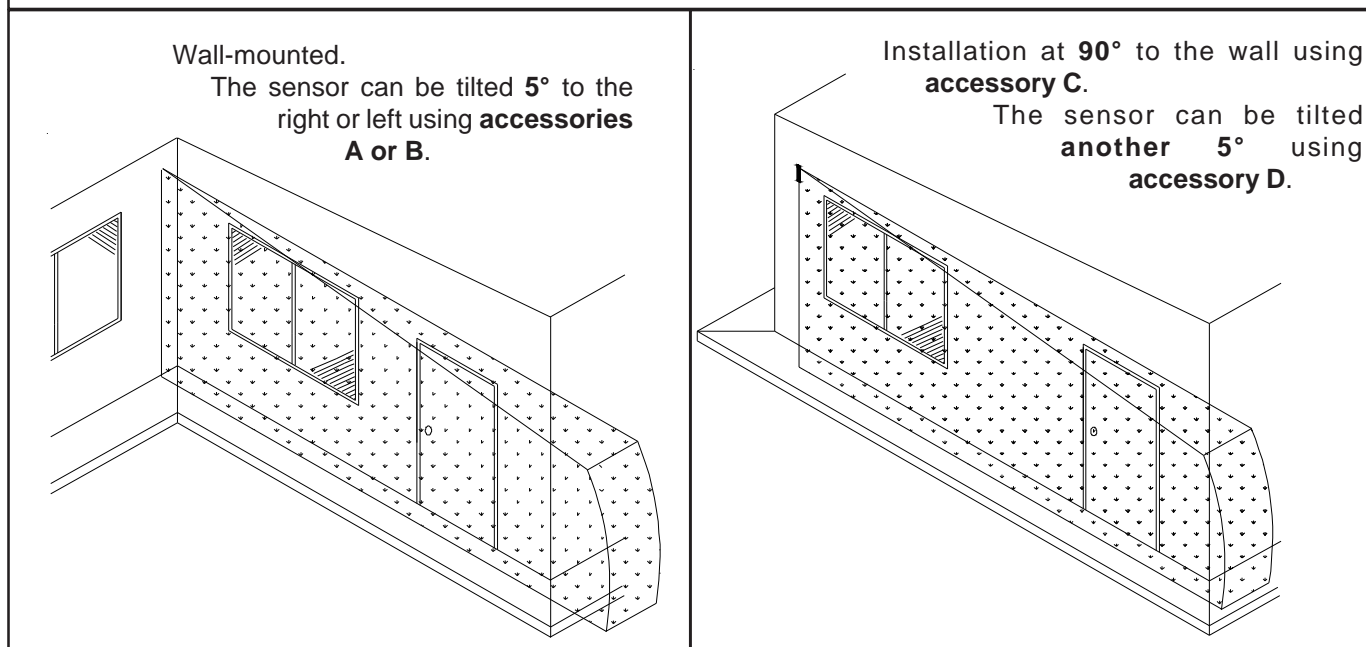
Avoid:

- subjecting the receiving channels to high sources of heat such as radiators, windows, etc.
- placing the pyroelectric sensor in direct sunlight
- hanging objects that could swing back and forth in the field of protection
- **touching the pyroelectric sensor with your fingers**

Installation tips

- Choose the position of the sensor carefully, keeping in mind that the sensor detects the intruder's horizontal **movements** and that the microwave detects movement towards and away from the sensor.
- Mount the sensor on a stable, vibration-free surface at a height between 1.9 and 2.2 metres.
- Do not aim the detector at fluorescent lamps.
- Do not expose the sensor to direct sunlight.
- Use shielded cable and connect the shield only to the negative of the controller and not the sensor.

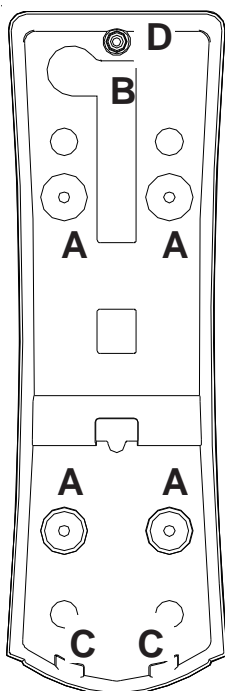
Installation examples:



Basic sensor

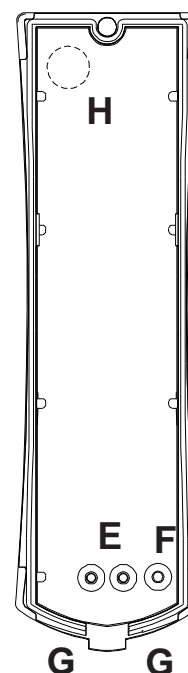
The sensor has a double bottom for fastening to the wall or to the joint for tilting it 90°, to which the real bottom that houses the card is then attached.

Double bottom



A	Preparation for fastening
B	Prepared cable pass-through channel
C	Hooks for attaching the bottom to the double bottom
D	Turret for locking the cover with 2.2 x 16 screw
E	Card centring guides
F	Turret for the locking the card to the bottom with 2.9 x 6.5 screw
G	Seats for the hooks for attaching to the bottom of the double bottom
H	Hole prepared for the passage of the cable (use the cable gland provided)

Bottom

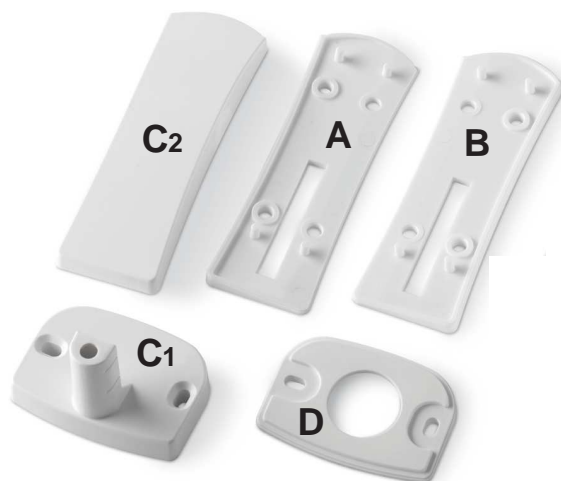


Before performing the operations described below, be sure to remove the electronic card from the base to avoid damaging it.

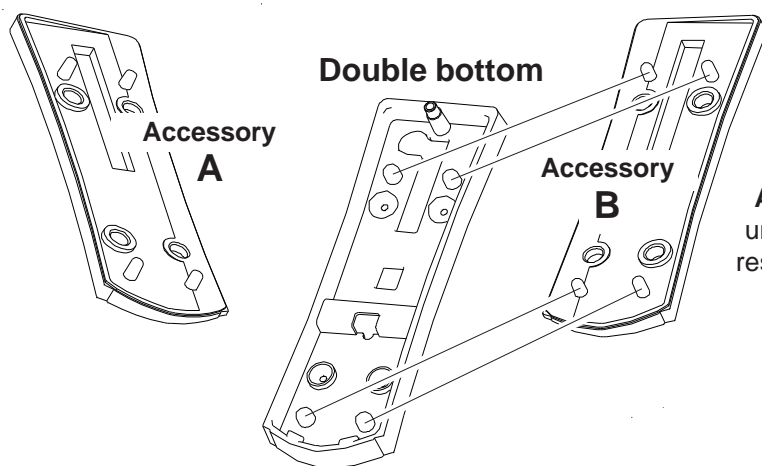
Accessories

The kit contains accessories for:

A	Accessory for wall mounting with tilt of 5° to the left
B	Accessory for wall mounting with tilt of 5° to the right
C	Accessory for wall mounting with tilt of 90°, consisting of an L-shaped bracket (C1) and back (C2)
D	Accessory for wall mounting with tilt of 95°



TILT OF 5°



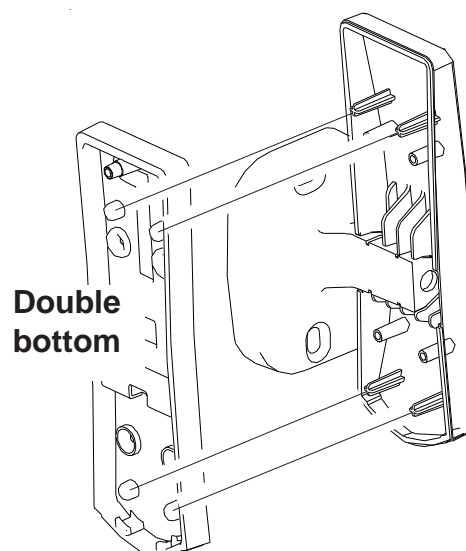
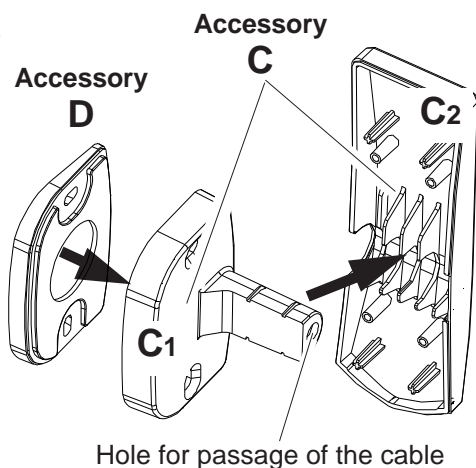
Based on the tilt to be provided, before fastening to the wall, insert **Accessory A** (to provide a tilt of 5° to the left) or **Accessory B** (to provide a tilt of 5° to the right) under the double bottom, placing the 4 pins in the respective seats.

TILT OF 90° - TILT OF 95°

Cut the back (**Accessory C2**), on the perforation provided, from the desired side for the insertion of the L-shaped bracket (**Accessory C1**).

For a tilt of 95°, before fastening to the wall, insert **Accessory D** on the bottom of the L-shaped bracket (as in the figure to the side)

Insert the double bottom, aligning the holes with the cross-turrets on the back (**Accessory C2**) and fasten with the 4 2.2 x 9.5 screws



TERMINAL BLOCK

-	Power negative
+	12 V power positive =
C	Alarm contact of the sensor with capacity of 100 mA
NC	Normally closed sensor idle
T	Anti-tampering contact of the sensor with capacity of 100 mA
T	Normally closed

It is possible to insert balancing resistances for both the alarm and tamper contacts. For the settings, refer to the tables for **S1** and **SW1**.

S1 MANAGING THE TAMPER CONTACT

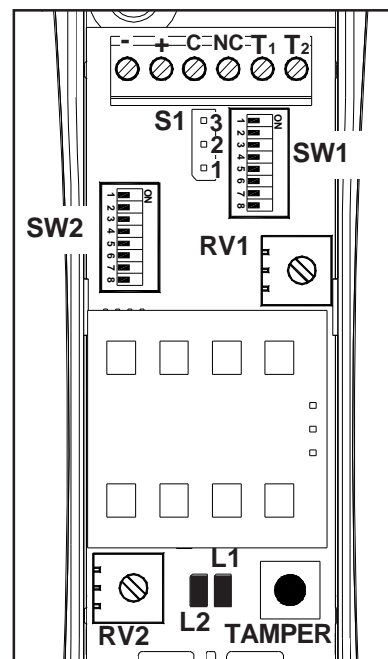
1 - 2	The resistance, configurable via DIP SWITCHES 1, 2, 3 and 4 of SW1, is in parallel with the TAMPER contact
2 - 3	The resistance, configurable via DIP SWITCHES 1, 2, 3 and 4 of SW1, is in series between the ALARM contact and that of the TAMPER (DEFAULT)

SW1 - BALANCING RESISTANCES

DIP	TAMPER	ON	OFF	DEFAULT	
1	(see S1)				10 kohm resistance inserted
2	(see S1)				10 kohm resistance excluded
3	(see S1)				5.6 kohm resistance inserted
4	(see S1)				5.6 kohm resistance excluded
5	(in parallel)				4.7 kohm resistance inserted
6	(in parallel)				4.7 kohm resistance excluded
7	(in parallel)				2.2 kohm resistance inserted
8	(in parallel)				2.2 kohm resistance excluded

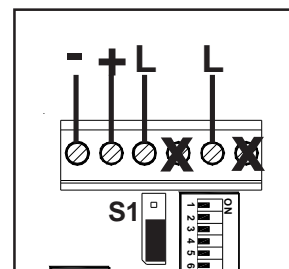
SW2 - FUNCTIONS

DIP	ON	OFF	DEFAULT	
1				Led Enable
2				Led Excluded
3				Anti-mask active Tamper relay
4				Anti-mask active Alarm relay
5				Not used
6				in this configuration the infrared has a default sensitivity (designed for classic use) and performs a digital analysis of the signal .
7				in this configuration the infrared has a low sensitivity compared to the default and performs a digital analysis of the signal that is stricter than the default and considers a double pulse
8				in this configuration the infrared has a average sensitivity compared to the default and performs a digital analysis of the signal that is stricter than the default
9				in this configuration the sensor has high sensitivity and detects any signal by analyzing the amplitude
10				Yellow LED displays status of the Microwave (Model OnE DT only)
11				Yellow LED displays status of the Anti-mask
12				Anti-mask Active
13				Anti-mask Disabled
14				Tamper Accelerometer enabled
15				Tamper Accelerometer excluded

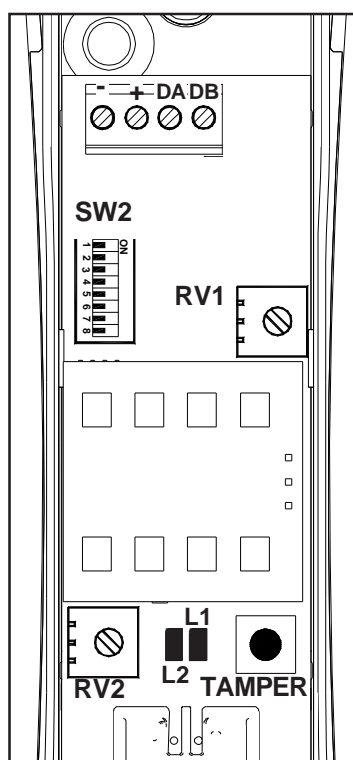


CONNECTIONS WITH S1 in position 1 - 2

If a TAMPER resistance is inserted in series using DIPs 1, 2, 3 and 4 of SW1, terminal blocks NC and T2 must not be used



OnE PA HP and OnE DT HP



TERMINAL BLOCK

-	Negative power
+	12 V positive power =
DA DB	RS485 serial: For connection to the dedicated input of the satellite XSATHPs or directly to the RS485 serial of the controllers prepared



Exclusively for the connection of the DA and DB serial communication terminals, we recommend shielded cables with a section of 0.5 mm² each, while the section of the power cables (+ and -) of the equipment connected to the serial port must be sized according to the type of system, according to the experience of the installer.

SW2 - FUNCTIONS

DIP 6	ON		Yellow LED displays status of the Microwave (Model OnE DT HP only)
	OFF	DEFAULT	Yellow LED displays status of the Anti-mask
DIP 7	ON	DEFAULT	Anti-mask Active
	OFF		Anti-mask Disabled
DIP 8	ON	DEFAULT	Tamper Accelerometer enabled
	OFF		Tamper Accelerometer excluded

SW2 - ADDRESS OnE PA HP and OnE DT HP

Sensor	DIP1	DIP2	DIP3	DIP4	DIP5	Sensor	DIP1	DIP2	DIP3	DIP4	DIP5	Sensor	DIP1	DIP2	DIP3	DIP4	DIP5
1	ON	ON	ON	ON	ON	12	OFF	OFF	ON	OFF	ON	23	ON	OFF	OFF	ON	OFF
2	OFF	ON	ON	ON	ON	13	ON	ON	OFF	OFF	ON	24	OFF	OFF	OFF	ON	OFF
3	ON	OFF	ON	ON	ON	14	OFF	ON	OFF	OFF	ON	25	ON	ON	ON	OFF	OFF
4	OFF	OFF	ON	ON	ON	15	ON	OFF	OFF	OFF	ON	26	OFF	ON	ON	OFF	OFF
5	ON	ON	OFF	ON	ON	16	OFF	OFF	OFF	OFF	ON	27	ON	OFF	ON	OFF	OFF
6	OFF	ON	OFF	ON	ON	17	ON	ON	ON	ON	OFF	28	OFF	OFF	ON	OFF	OFF
7	ON	OFF	OFF	ON	ON	18	OFF	ON	ON	ON	OFF	29	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	ON	19	ON	OFF	ON	ON	OFF	30	OFF	ON	OFF	OFF	OFF
9	ON	ON	ON	OFF	ON	20	OFF	OFF	ON	ON	OFF	31	ON	OFF	OFF	OFF	OFF
10	OFF	ON	ON	OFF	ON	21	ON	ON	OFF	ON	OFF	32	OFF	OFF	OFF	OFF	OFF
11	ON	OFF	ON	OFF	ON	22	OFF	ON	OFF	ON	OFF						

By DEFAULT, the sensors are supplied with DIP SWITCHES 1 to 5 set to OFF (sensor 32)

Common configurations OnE PA, OnE DT, OnE PA HP e OnE DT HP

Depending on the setting of DIP6 of bank SW2, the yellow LED can indicate the status of the microwave or the status of the anti-masking circuit.

LED

BLUE (LD1)		Flashes:	alternating with the yellow LED for about 60 seconds on first power-on
		Steady on:	general alarm signal
YELLOW (LD2)	DIP 6 of SW2 to ON	Flashes:	alternating with the blue LED for about 60 seconds on first power-on
		Steady on:	Anti-masking signal
		Fast flashing:	Anti-masking pre-alarm signal
		Slow flashing:	Anti-masking calibration after closing the cover
	DIP 6 of SW2 to OFF	Steady on:	Microwave alarm signal

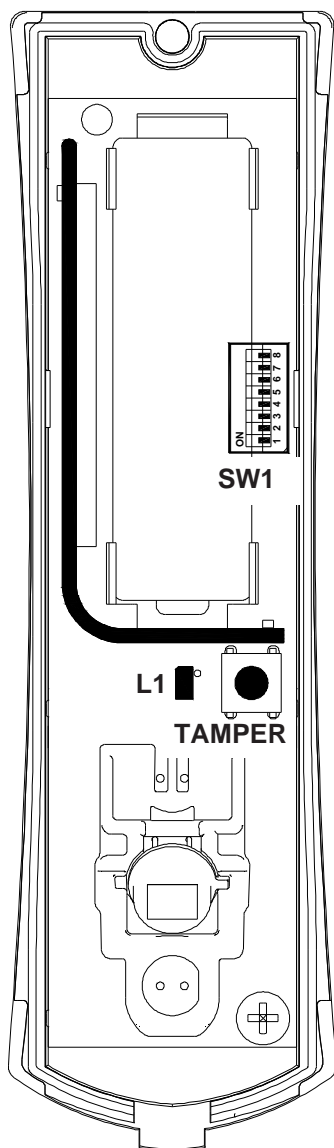
In addition to trimmer RV1 for adjusting the microwave range, the sensor has a trimmer RV2 for adjusting the range of the infrared

Trimmer RV1 - Microwave range (Models One DT and OnE DT HP only)

Trimmer for adjusting the microwave range (turning it counterclockwise gives the minimum range).

Trimmer RV2 - Infrared range

Trimmer for adjusting the infrared range (turning it counterclockwise gives the minimum range).



Power supply:

OnE WS comes with a 3.6 V 2.2 Ah **lithium battery** (Model **AA**) included

LED L1

Flashes for about 60 seconds at first power-on and at each transmission (of alarm, tamper, anti-masking, survival, etc.) made by the sensor.

Reduced consumption (DIP 6: ON)

After a time of 20 minutes from the insertion of the battery, during which the sensor still functions in Normal Consumption mode (stand-by time between one alarm transmission and another of 5 seconds), following an alarm transmission, the sensor continues to analyze the environment to be protected but does not make additional transmissions until about 3 minutes have passed.

SW1 - FUNCTIONS

DIP 6	ON	DEFAULT	Normal Consumption (stand-by: 5 seconds)
	OFF		Reduced Consumption (stand-by: 3 minutes + LED deactivated)
DIP 7	ON		Reduced sensitivity
	OFF	DEFAULT	Normal sensitivity
DIP 8	ON	DEFAULT	Enable Tamper Accelerometer
	OFF		Disable Tamper Accelerometer

SW1 - SENSOR ADDRESS

Sensor	DIP1	DIP2	DIP3	DIP4	DIP5	Sensor	DIP1	DIP2	DIP3	DIP4	DIP5
1	ON	ON	ON	ON	ON	17	ON	ON	ON	ON	OFF
2	OFF	ON	ON	ON	ON	18	OFF	ON	ON	ON	OFF
3	ON	OFF	ON	ON	ON	19	ON	OFF	ON	ON	OFF
4	OFF	OFF	ON	ON	ON	20	OFF	OFF	ON	ON	OFF
5	ON	ON	OFF	ON	ON	21	ON	ON	OFF	ON	OFF
6	OFF	ON	OFF	ON	ON	22	OFF	ON	OFF	ON	OFF
7	ON	OFF	OFF	ON	ON	23	ON	OFF	OFF	ON	OFF
8	OFF	OFF	OFF	ON	ON	24	OFF	OFF	OFF	ON	OFF
9	ON	ON	ON	OFF	ON	25	ON	ON	ON	OFF	OFF
10	OFF	ON	ON	OFF	ON	26	OFF	ON	ON	OFF	OFF
11	ON	OFF	ON	OFF	ON	27	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	OFF	ON	28	OFF	OFF	ON	OFF	OFF
13	ON	ON	OFF	OFF	ON	29	ON	ON	OFF	OFF	OFF
14	OFF	ON	OFF	OFF	ON	30	OFF	ON	OFF	OFF	OFF
15	ON	OFF	OFF	OFF	ON	31	ON	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	32	OFF	OFF	OFF	OFF	OFF

By **DEFAULT**, the sensors are supplied with **DIP SWITCHES 1 to 5** set to **OFF** (sensor 32)



DICHIARAZIONE DI CONFORMITÀ
(MANUFACTURERS' DECLARATION OF
CONFORMITY)

Costruttore : (Manufacturer)	AVS ELECTRONICS SPA
Indirizzo : (Address)	Via Valsugana, 63 - 35010 Curtarolo (PD) - ITALY

DICHIARA CHE LA SEGUENTE APPARECCHIATURA
(DECLARES THAT THE FOLLOWING EQUIPMENT)

Nome dell'Apparecchiatura : (Equipment Name)	ONE PA / ONE PA HP
Tipo di Apparecchiatura : (Type of Equipment)	RIVELATORE VOLUMETRICO INFRAROSSO PASSIVO (PASSIVE INFRARED MOTION DETECTOR)
Modello : (Model)	
Anno di Costruzione : (Year of Manufacture)	2012


RISULTA CONFORME CON QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE COMUNITARIE:
(IS IN ACCORDANCE WITH THE FOLLOWING COMMUNITY DIRECTIVES)

2004/108/EC (EMC)	

E CHE SONO STATE APPLICATE LE SEGUENTI NORMATIVE
(APPLYING THE FOLLOWING NORMS OR STANDARDS)

EN 61000-6-3	
EN 50130-4	
EN 50131-1 / EN 50131-2-2	

IDENTIFICATORE DI CLASSE DEL DISPOSITIVO (per apparati RF regolamentati dalla direttiva R&TTE)
(Equipment class identifier (RF products falling under the scope of R&TTE))

☒ Not Applicable ☐ None (class 1 product) ☐  (class 2 product)

Il costruttore dichiara sotto la propria responsabilità che questo prodotto è conforme alla direttiva 93/68/EEC (marcatura) e soddisfa i requisiti essenziali e altre prescrizioni rilevanti della direttiva 1999/5/EC (R&TTE) in base ai risultati dei test condotti usando le normative (non) armonizzate in accordo con le Direttive sopracitate.

(We declare under our sole responsibility that this product is in conformity with directive 93/68/EEC (Marking) and/or complies to the essential requirements and all other relevant provisions of the 1999/5/EC (R&TTE) based on test results using (non)harmonized standards in accordance with the Directives mentioned)

Luogo (Place) : Curtarolo

Data (Date): Nov. 2012

Nome (Name): G. Baro

Firma (Signature)

Amministratore
(Managing Director)



DICHIARAZIONE DI CONFORMITÀ
(MANUFACTURERS' DECLARATION OF CONFORMITY)

Costruttore : (Manufacturer)	AVS ELECTRONICS SPA
Indirizzo : (Address)	Via Valsugana, 63 - 35010 Curtarolo (PD) - ITALY

DICHIARA CHE LA SEGUENTE APPARECCHIATURA
(DECLARES THAT THE FOLLOWING EQUIPMENT)

Nome dell'Apparecchiatura : (Equipment Name)	ONE DT / ONE DT HP
Tipo di Apparecchiatura : (Type of Equipment)	RIVELATORE VOLUMETRICO A DOPPIA TECNOLOGIA (DUAL TECHNOLOGY MOTION DETECTOR)
Modello : (Model)	
Anno di Costruzione : (Year of Manufacture)	2012


RISULTA CONFORME CON QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE COMUNITARIE:
(IS IN ACCORDANCE WITH THE FOLLOWING COMMUNITY DIRECTIVES)

2004/108/EC (EMC)	1999/05/EC (R&RTTE)
2006/95/EC (LVD)	

E CHE SONO STATE APPLICATE LE SEGUENTI NORMATIVE
(APPLYING THE FOLLOWING NORMS OR STANDARDS)

EN 300440-2	EN 50131-1 / EN 50131-2-4
EN 301489-3	
EN 50130-4	
EN 60950-1	

IDENTIFICATORE DI CLASSE DEL DISPOSITIVO (per apparati RF regolamentati dalla direttiva R&TTE)
(Equipment class identifier (RF products falling under the scope of R&TTE))

☐ Not Applicable ☐ None (class 1 product) ☒  (class 2 product)

Il costruttore dichiara sotto la propria responsabilità che questo prodotto è conforme alla direttiva 93/68/EEC (marcatura) e soddisfa i requisiti essenziali e altre prescrizioni rilevanti della direttiva 1999/5/EC (R&TTE) in base ai risultati dei test condotti usando le normative (non) armonizzate in accordo con le Direttive sopracitate.

(We declare under our sole responsibility that this product is in conformity with directive 93/68/EEC (Marking) and/or complies to the essential requirements and all other relevant provisions of the 1999/5/EC (R&TTE) based on test results using (non)harmonized standards in accordance with the Directives mentioned)

Luogo (Place) : Curtarolo

Data (Date): Nov. 2012

Nome (Name): G. Baro

Firma (Signature)

Amministratore
(Managing Director)

DICHIARAZIONE DI CONFORMITÀ
(MANUFACTURERS DECLARATION OF CONFORMITY)

Costruttore : (Manufacturer)	AVS ELECTRONICS SPA
Indirizzo : (Address)	Via Valsugana, 63 - 35010 Curtarolo (PD) - ITALY

DICHIARA CHE LA SEGUENTE APPARECCHIATURA
(DECLARES THAT THE FOLLOWING EQUIPMENT)

Nome dell'Apparecchiatura : (Equipment Name)	ONE PA WS
Tipo di Apparecchiatura : (Type of Equipment)	SENSORE INFRAROSSO PASSIVO VIA RADIO (PASSIVE INFRARED WIRELESS DETECTOR)
Modello : (Model)	
Anno di Costruzione : (Year of Manufacture)	2012


RISULTA CONFORME CON QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE COMUNITARIE:
(IS IN ACCORDANCE WITH THE FOLLOWING COMMUNITY DIRECTIVES)

2004 / 108 / EC (EMC)	1999 / 05 / EC (R&TTE)
2006 / 95 / EC (LVD)	

E CHE SONO STATE APPLICATE LE SEGUENTI NORMATIVE
(APPLYING THE FOLLOWING NORMS OR STANDARDS)

EN 300220-3	EN 50131-1 / EN 50131-2-2
EN 301489-3	
EN 50130-4	
EN 60950-1	

IDENTIFICATORE DI CLASSE DEL DISPOSITIVO (per apparati RF regolamentati dalla direttiva R&TTE)
(Equipment class identifier (RF products falling under the scope of R&TTE))

☐ Not Applicable ☐ None (class 1 product) ☒  (class 2 product)

Il costruttore dichiara sotto la propria responsabilità che questo prodotto è conforme alla direttiva 93/68/EEC (marcatura) e soddisfa i requisiti essenziali e altre prescrizioni rilevanti della direttiva 1999/5/EC (R&TTE) in base ai risultati dei test condotti usando le normative (non) armonizzate in accordo con le Direttive sopracitate.

(We declare under our sole responsibility that this product is in conformity with directive 93/68/EEC (Marking) and/or complies to the essential requirements and all other relevant provisions of the 1999/5/EC (R&TTE) based on test results using (non)harmonized standards in accordance with the Directives mentioned)

Luogo (Place) : Curtarolo

Data (Date): NOV 2012

Nome (Name): G. BARO


Firma (Signature)


Amministratore
(Managing Director)

INFORMATION IN CONFORMITY WITH DIRECTIVE 1999/5/EEC (R&TTE)

This product subject of this declaration conforms to the fundamental requirements of Directive 1999/5/CEE (R&TTE) on weak power radio transmitting equipment and the use of the radio electric spectrum, also in agreement with recommendation CEPT 70-03.

Brand	AVS ELECTRONICS
Model	OnE DT, OnE DT HP
Work frequency	24 Ghz (Microwave signal)
Type of power supply	Direct Current
Nominal voltage	12 V =
Nominal current	33 mA (in transmission) 30 mA (to rest)
Countries in the European Union where it is to be used	ITALY, BELGIUM, FRANCE, GERMANY, GRECE, PORTUGAL, POLAND, HOLLAND, SPAIN, BULGARIA, CYPRUS, DENMARK, HUNGARY, ICELAND, IRELAND, MALTA, NORWAY, LUXEMBURG
Date	16 july 2012

Brand	AVS ELECTRONICS
Model	OnE WS
Work frequency	868,350 Mhz (Radio transmission)
Type of power supply	Direct Current
Nominal voltage	3,6 V =
Nominal current	20 mA (in transmission) 25 μ A (to rest)
Countries in the European Union where it is to be used	ITALY, BELGIUM, FRANCE, GERMANY, GRECE, PORTUGAL, POLAND, HOLLAND, SPAIN, BULGARIA, CYPRUS, DENMARK, HUNGARY, ICELAND, IRELAND, MALTA, NORWAY, LUXEMBURG
Date	16 july 2012

! WARNING !

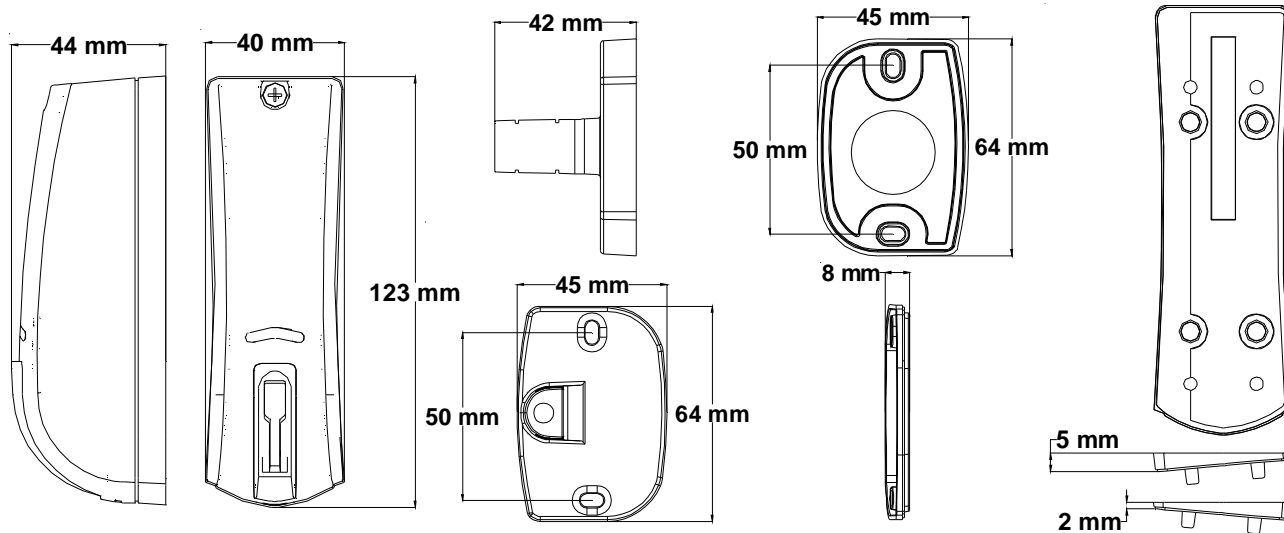
Danger of explosion if battery is not replaced in a correct way. Replacement must be made by a qualified technician using the same or equivalent type of battery recommended by manufacturer. Do not open, do not expose to high temperatures, do not expose to fire. Do not waste discharged batteries in environment but dispose of them in special containers according to Law. Keep away from children.

LITHIUM BATTERY 3.6V TIPO MOD. SIZE AA - 2,2Ah



TECHNICAL CHARACTERISTICS

	OnE WS	OnE PA	OnE PA HP	OnE DT	OnE DT HP
Nominal voltage	3,6 V =	12 V =			
Power supply voltage	Max: 3,6 V = Min: 3 V =	Max: 15 V = Min: 10,5 V =	Max: 15 V = Min: 10,5 V =	Max: 15 V = Min: 10,5 V =	Max: 15 V = Min: 10,5 V =
Absorption	25 µA in quiet 20 mA in alarm	25 mA in quiet 28 mA in alarm	30 mA in quiet 33 mA in alarm	30 mA in quiet 33 mA in alarm	30 mA in quiet 33 mA in alarm
Coverage	10° on 8 effective metres			10° on 12 effective	
Operating logic	YES	YES	YES	YES	YES
Infrared anti-masking	NO	NO	NO	YES	YES
Microwave anti-masking	YES	YES	YES	YES	YES
Temperature compensation	-	-	-	Pulsed	Pulsed
Signal emitted by the microwave	-	-	-	24 GHz	24 GHz
Transmission frequency	FM 868 MHz	-	-	-	-
RS485 serial connection	NO	NO	YES, with Xtream controllers and XSATHP satellites	NO	YES, with Xtream controllers and XSATHP satellites
Range in open field	~ 150 m.	-	-	-	-
Low-battery signal:	YES	-	-	-	-
Survival signal	YES	-	-	-	-
Installation height	recommended from 1.9 to 2.2 m				
Display through XWIN software	NO	NO	YES	NO	YES
Management through XWIN software	NO	NO	YES	NO	YES
Accelerometer	YES				
Electronic card operating conditions:	-25° C / + 55° C				
Weight	100 g				
Dimensions(DxWxH)	44 mm x 40 mm x 123 mm				
Protection grade	IP54				



The product complies with the CE directive on electromagnetic compatibility.



The power supply must come from a very low voltage safety circuit and having the characteristics of a limited, fuse-protected power source.



INSTALLATION AND MAINTENANCE MUST BE PERFORMED BY QUALIFIED PERSONNEL



AVS ELECTRONICS Spa reserves the right to make changes at any time without notice.



AVS electronics

**Via Valsugana, 63
35010 (Padova) ITALY
Tel. 049 9698 411 / Fax. 049 9698 407
avs@avselectronics.it
www.avselectronics.com
support@avselectronics.it**