

22.04-M:1.0-H:SF-01VX-21-F:1.16

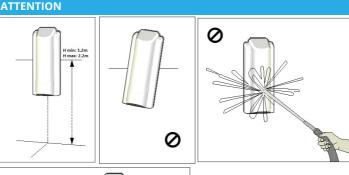
Monolith is our latest generation outdoor sensor, which allows you to obtain a high detection reliability even in critical environmental conditions, and it's very easy to install. Monolith supports the innovative Walk Test and Wireless Programming System, composed from

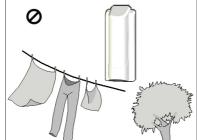
the VIEW SENSOR software and the BT-LINK-S module (not included). The sensor has full protection against tampering: anti-opening, anti-removal and anti-masking.

READ CAREFULLY THIS MANUAL BEFORE INSTALL YOUR NEW ALARM SYSTEM. KEEP THIS MANUAL FOR FUTURE REFERENCE.

ONLY QUALIFIED TECHNICIAN MUST INSTALL THIS DEVICE. INSTALLER MUST FOLLOW CURRENT REGULATIONS.

THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY IMPROPER USE OF THE PRODUCT, INCORRECT INSTALLATION OR FAILURE TO COMPLY WITH INSTRUCTIONS OF THIS MANUAL AND THE LAW REGARDING ELECTRICAL SYSTEMS.





IMPORTANT: THE SENSOR MUST BE INSTALLED SO THAT THE INTRUSION TAKES PLACE WITH THE CROSSING OF TWO PIR BEAM. AND NOT WITH THE APPROACH IN THE



DETECTION DISTANCE ADJUSTMENT

Monolith can be installed at any height between 1.2m and 2.2m

Depending on the installation height, the heads must be positioned using the indications on the sensor and set the setup in the appropriate range of use.

The 1.2m installation is the only one that also allows you to take advantage of the pet immune mode. To make installation easier, the sensor indicates where to place the heads for the two limit installation heights.

ATTENTION: The sensor is optimized for installation at 1.2m, for higher heights there could be the

INSTALLATION AT 1.2m NO PET:

This is the most effective installation and must be used in the absence of pets.

INSTALLATION AT 1.2m WITH PET IMMUNE:

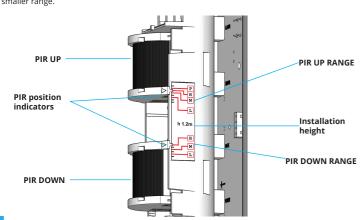
In pet immune mode the sensor does not generate alarms caused by small animals (height maximum 80cm). This mode must be activated by setup, and requires that the pir at the top is positioned in position P. This type of installation is not recommended in the absence of animals as the degree of protection is lower

INSTALLATION AT 2.2m:

This type of installation offers a lower degree of protection, because the minimum distance of

OTHER INSTALLATION HEIGHTS:

If it is necessary to mount the sensor at a different height, intermediate positions can be used for the heads (indicated on the sensor in black color), lowering the heads, the sensor will have a smaller range.



ATTENTION: There are two labels depending on the desired installation height (1.2m and 2.2m), one on the right side and one on the left side of the sensor. Place the heads following the directions of the appropriate label. For height installations differently, refer to the chapter "OTHER INSTALLATIONS", page 6

Detection distance adjustment:

Once the height and type of installation have been defined, the heads must be positioned according to the distance to be protected (L / M / H) in order to optically limit the detection. Set the heads by looking at the indications on the sensor, left or right side depending on the

> P: pet immune mode (1.2m height mount only) L: to detect up to 5m

M: to detect up to 10m H: to detect up to 15m

In the setup, in addition to the L / M / H positions indicated on the sensor, there is also the possibility to set the RANGE in order to introduce a non-optical attenuation of about 30%, using the range REDUCED L / M / H (see SETUP section). You MUST set the RANGE in setup equal to the position heads (L / M / H).

To install between 1m and 1.3m Pet Immune (RIGHT LABEL):

Place the upper head in position P

Place the lower head in the desired RANGE (L / M / H).

In the setup: disable the H2.2 setting, set the L / M / H RANGE as the heads (also in reduced mode), enable the PET function

To install between 1m and 1.3m NO Pet Immune (RIGHT LABEL):

Place the upper and lower heads in the same position (L / M / H) according to the desired flow

In setup: disable the H2.2 setting, set the L / M / H RANGE (even in a reduced way) like the heads,

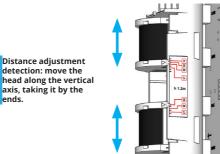
disable the PET function. To install between 2m and 2.2m (LEFT LABEL):

Place the upper and lower heads in the same position (L / M / H) according to the desired flow

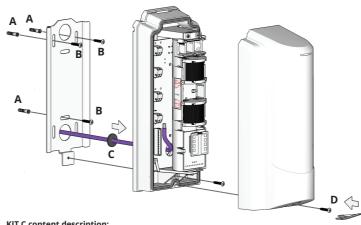
In the setup: enable the H2.2 setting, set the L / M / H RANGE (even in a reduced way) like the heads. The PET function cannot be enabled. For installations between 1.3m and 2m:

If it is necessary to mount the sensor at a height other than those indicated on the sensor you can also use the intermediate positions of the heads (indicated on the sensor in color black).

Remember that by lowering the head, the sensor will have a shorter range, while when it get up the range increases.



WALL MOUNTING



KIT C content description:

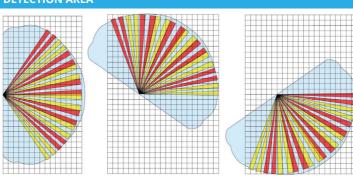
- A) 3 Fisher SX5 anchors
- **B)** 3 Screws 3,5X35 TC C) 1 cable gland
- **D)** 1 Screw 2,9X16 TC
- E) 1 Screw cover insert

Wall mounting instructions:

- Fix the bracket to the wall with the appropriate plugs (A) and screws (B).
- Drill the cable gland (C) and insert the cable inside the sensor
- Fit the sensor to the bracket by sliding it from top to bottom. Fix the sensor to the bracket by screwing the fixing screw.
- Connect the cable to the terminals.
- Close the sensor cover from top to bottom
- Screw the cover closing screw (D) to lock the sensor cover.
- Insert the roof with the special joint as shown in the figure below.



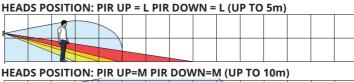
DETECTION AREA



LEFT END OF RIGHT END OF CENTRAL POSITION STROKE POSITION STROKE POSITION ATTENTION: The central position and the end-of-stroke positions are indicated in the diagrams

right and left. All intermediate positions are possible by locking the optical unit in the desired

Detection area with 1.20m NO PET installation





MASKING OUTPUT: opens in ALARM OUTPUT: opens in case of sensor detection case of the sensor masking Power input (+ 12V) TAMPER OUTPUT: opens in case of sensor tampering. Detection area with 1.20m PET-IMMUNE installation HEADS POSITION: PIR UP = P PIR DOWN = L (UP TO 5m) HEADS POSITION: PIR UP=P PIR DOWN=M (UP TO 10m) HEADS POSITION: PIR UP=P PIR DOWN=H (UP TO 15m) Detection area with 2.20m installation HEADS POSITION: PIR UP = L PIR DOWN = L (UP TO 5m) HEADS POSITION: PIR UP=M PIR DOWN=M (UP TO 10m) HEADS POSITION: PIR UP=H PIR DOWN=H (UP TO 15m)

Angular adjustment of the detection area

Unscrew the adjustment screw (A)

WIRED OUTPUT

All the wired outlets are of the N.C. type, potential-free.

Rotate the light assembly as necessary. Screw in the adjusting screw (A).

It is possible to adjust the point of view of the sensor by rotating the optical group.

may slightly affect the indicated flow rates.

ATTENTION: The environmental conditions and the installation site

SENSOR STARTUP

Power up: the sensor enters the "initialisation" phase. The detection LEDs flash alternately for 60 seconds. At the end of stabilization, the LEDs turn off and the sensor can be used

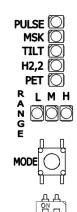
SETUP MANAGEMENT

To view and modify the setup use the SELECT and MODE buttons, the buttons must always be pressed for at least the necessary time declared and then released; a beep warns of correct

The first time you press SELECT you enter setup and the current values are displayed with further presses of SELECT you can select the item to be changed and with MODE the modification is carried out; press SELECT and MODE together to store the new setup. The setup is always active for 30 seconds from the last press of a button, then goes to timeout

To view the setup without making any changes:

- Press SELECT (1Sec) to enter setup, the leds light up and display the current setup
 To finish, you can wait for the timeout to exit setup (30S) or close the tamper of the cover.



To modify the setup it is advisable to first identify the position of the first item to be changed by referring to the list below

When editing, remember that after 30sec, from the last press of a key, the setup exits due to timeout, and therefore the not saved variations are lost.

- Press SELECT (1Sec) to enter setup, the leds light up and display the current setup.
- Press SELECT again (200mS) the first modifiable value (BLUE LED)
- flashes quickly, if you need to modify it, skip to point 4.

 Press SELECT again as many times as necessary to reach the item to be changed, a rapid flashing shows the item you are positioned at; when you reach the last item, you start from the first again (BLUE LED).
- When you reach the item to be changed, press MODE (200mS) one or more times until the desired value is obtained
- To change other items, start again from point 3.
- Once the modifications have been completed, save the data by pressing SELECT and MODE together, an acoustic signal warns of the success and the setup stops.
- ALARM LED: ON = alarm led enabled, OFF = alarm led disabled PULSE: number of pulses, OFF = 1, flashing = 2, ON = 3.
- MSK: anti-masking, ON = active, OFF = inactive
- TILT: anti-removal. ON = active. OFF = inactive.
- H2,2: mounting height, ON = 2.2m, OFF = 1.2m.
- PET: pet immune, ON = enabled, OFF = disabled.
- RANGE L: ON = L, flashing = L reduced.
- RANGE M: ON = M, flashing = M reduced.
 RANGE H: ON = H, flashing = H reduced.

ALARM LFD:

The blue alarm LED positioned near the heads, if activated, turns on at each alarm.

Determines the number of pulses needed to establish the alarm event. We recommend to set a higher number of pulses in critical environmental conditions, for example in presence of oscillating vegetation, or adverse weather conditions.

The anti-masking device protects the sensor 24 hours a day, in case the sensor is covered to prevent detection. Anti-masking does not work without the cover on the sensor.

The MASK alarm is activated if the masking persists for more than three minutes.

The anti-masking protection is always active. Respect an area of about 30 cm in front of the sensor where people must not stand. Also do not leave near the sensor, opened doors, hanging clothes or furnishing elements.

The anti-masking function is active with ambient temperatures above 0 ° C

Through VIEW-SENSOR it is possible to extend the operating temperature of the anti-masking to values

To be activated in case of installation higher than 1.3m.

The TILT is the removal protection system and protects the sensor 24h / 24 in case you want to try to remove it from the installation location. The detection takes place through motion sensor (accelerometer) or via rear button.

With the LED on, the sensor is in pet immune mode, needed if small animals are present.

RANGE:

Through the RANGE setting, the sensitivities of the heads are set. This setting must be consistent with the positioning of the heads. The selectable options are the followings:

- REDUCED RANGE L: the sensor detects up to about 3m (FLASHING LED)
- RANGE L: The sensor detects up to about 5m (LED ON).
- RANGE M RIDOTTO: the sensor detects up to about 7m (FLASHING LED)
- RANGE M: led ON the sensor can detect up to a maximum of about 10m
 RANGE H RIDOTTO: the sensor detects up to about 12m (FLASHING LED).
- RANGE H: led ON the sensor can detect up to a maximum of about 15m.

FACTORY DEFAULT SETTINGS

The sensor has the following setup, at the first start:

| ALARM LED: | OFF |
|-------------------------------|--------|
| PULSE: | 1 |
| MASK: | ON |
| Masking disabled below 0 ° C: | ON * |
| Antimasking sensitivity: | LOW ** |
| TILT: | ON |
| TILT sensitivity: | LOW * |
| H2,2: | OFF |
| PET: | OFF |

*Values marked with an asterisk can only be changed via VIEW SENSOR

It is possible to restore the sensor to the factory settings by holding down the MODE and SELECT buttons at the same time as the sensor starts up until the confirmation beep is heard (a few

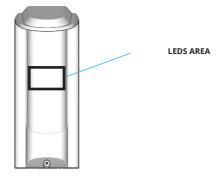
LEDS INDICATIONS

Monolith is equipped with three distinct leds for various signals. The light signals are all active in WALK TEST, while in normal operation it is only possible to activate the LED alarm via setup.

LUMINOUS SIGNALS:

10

- RED LED: PIR UP ALARM
- GREEN LED: PIR DOWN ALARM
- BLUE LED: SENSOR ALARM / MICROWAVE CONFIRM



11

TAMPER PROTECTION

RED LED: the upper pir head has detected.

GREEN LED: the lower pir head has detected

The sensor is protected from tampering attempts by three controls: anti-opening cover, antiremoval and anti-masking

ANTI-OPENING

DIP 2 ALARM GROUPING:

DIPS SWITCH

■ DIP1: ON=Walk test active, OFF=walk test disabled

MONOLITH DT the alarm includes the detection of the microwave.

■ DIP2: ON=Alarm grouping active. OFF=no alarm grouping. With alarm grouping active all

tampering alarms (tamper, masking, tilt) are reported via the TAMPER termina

By the **DIP 1**, the WALK-TEST is enabled which is used to verify the correct adjustment of the

BLUE LED: indicates the alarm event generated by the detection of all the heads. In the sensors

If the WALK-TEST does not give the desired results, proceed with the necessary adjustments, included the vertical and horizontal adjustment of the heads, and if necessary the variation of

the RANGE in setup. Repeat the operation several times, until the desired results are achieved. The sensor exits the WALK-TEST for TIMEOUT after about 15 minutes.

ATTENTION: During the WALK-TEST the sensor does not send tamper alarms but only the detection

on, the sensor returns to walk test. To avoid this, move the dip 1 to off at the end of the WALK-TEST

With active alarm grouping, all tampering alarms (tamper, masking, tilt) are signaled via the

TAMPER output. When disabled, the sensor uses all the outputs dedicated to signals.

alarm. If the sensor exits for TIMEOUT, dip 1 remains on, each time the cover is removed and put back

heads. Once the dip is set to ON, close the cover and perform steps in front of the sensor

at the desired distances by observing the signaling LEDs positioned near the heads:

Protection against opening the sensor cover.

ANTI-REMOVAL

Protection against removal from the installation position. Protection can be either via accelerometer, or via rear switch depending on the model. To include / exclude this protection, use the SETUP via the TILT setting.

VIEW SENSOR

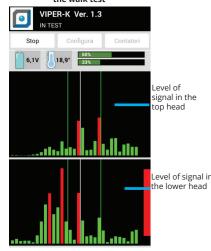
SELECT

VIEW SENSOR is the innovative application developed on the Windows and Android platform that facilitates the installation of outdoor sensors.

VIEW SENSOR allows you to adjust the sensor optimally to better define the area to protect. minimizing improper alarms. The application allows you to perform a completely innovative walk-test: via wireless connection it is possible to view in real time on your device (PC, tablet or smartphone) the level of signal perceived by the individual heads, as well as configure the

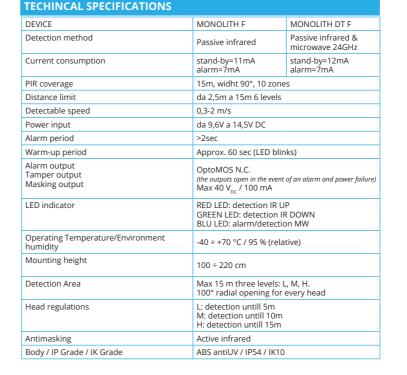
sensor without manually intervening.
To use VIEWS SENSOR you need the optional BT-LINK-S module that connects to the sensor only for the duration of the walk-test and afterwards it is removed for reuse on other sensors.

Example of a mobile screen during the walk test



Example of a mobile screen during

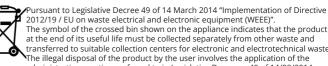






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EU Declaration of Conformity Hereby, DUEVI declares that the equipments type outdoor detector mod. VIPER-F is compliance with Directive EMC 2014/30/EU. The full text of the Declaration is available at the internet address www.duevi.



2012/19 / EU on waste electrical and electronic equipment (WEEE)".
The symbol of the crossed bin shown on the appliance indicates that the product at the end of its useful life must be collected separately from other waste and transferred to suitable collection centers for electronic and electrotechnical waste The illegal disposal of the product by the user involves the application of the administrative sanctions referred to in Legislative Decree n. 49 of 14/03/2014.

15