

FARO SUPER DT is a dual-technology volumetric detector equipped with a microwave (MW) section and passive infrared (PIR) section. Conceived to ensure an excellent immunity to small animals, the device still detects any intrusion attempts. Its key feature is a very low environmental impact thanks to the microwave switching-off: automatic through “Automatic ECO” algorithm; or through ECO function able to switch off the system. The detector also features low consumption in stand-by.

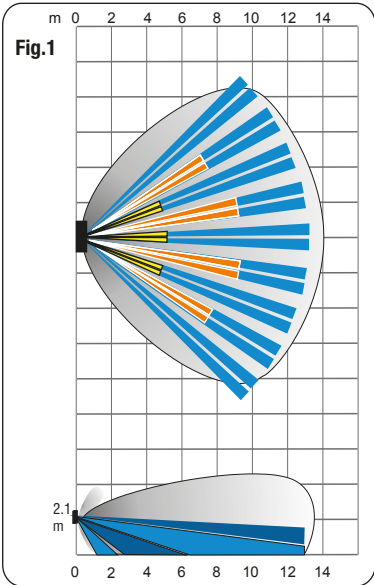
INSTALLATION

Before proceeding to installation, the producer recommends to analyse the characteristics of the environment to be protected, in order to identify the best position to secure the maximum coverage. To ensure an excellent pet immunity, install the detector between 2,1 m and 2,3 m height from the ground.

Pay attention not to tilt the detector downwards, to avoid any pet immunity compromise.

The best operating condition is given with detection lobes intersecting at 45° the direction of intruder transit. Place the detector towards the inside of the room far from doors, windows, moving machinery and heat sources and never heading towards windows with direct sun exposition.

FARO SUPERDT operates as indicated in figure 1.



NOTE! Pay attention not to darken detector's field of vision, not even in part.

DETECTOR FASTENING

Remove the plastic cover by inserting the screwdriver in the opening slot, on the lower part of the detector (fig. 2). Apply light pressure to release it. Remove the circuit enlarging one of the hooks (fig. 2).

WALL/CORNER MOUNTING

Drill two holes, according to the needs, in A1 and A2 zones for corner mounting, or P1 and P2 zones for wall mounting (fig. 3). Cut one of the holes for cable passing (CP) located on the plastic base (fig. 3). Drill 6 mm-holes for wall fixing. Pass the cable through the cable passing hole selected. Fasten the plastic base to the wall using the screws provided. Pay attention not to touch the electronic board with screw heads. Reassemble the circuit on the plastic base.

TERMINAL BOARD CONNECTION

Connect the sensor to the control panel following the indications on figure 4. In the first 60 seconds after power-up, the detector will be in “WARM UP” mode. During this phase, LEDs will blink alternately. At the end of the operation, run Walk Test.

TIME-CONTROLLED WALK TEST AT POWER-ON

At power-up the detector will automatically set Walk Test mode. In this mode, independently of the status of DIP SWITCH 2 - LED OFF, the detector will show microwave, infrared and alarm status recordings in order for the installer to check the correct functioning of the device. This operation mode remains for 20 minutes.



MAIN TECHNICAL FEATURES

- Pet Immunity selectable according to animal dimensions on two levels
- Automatic Eco, automatic switching-off of the microwave
- Low consumption
- Time-controlled memory alarm
- Remote enabling of LED
- Anti Fluorescent digital processing
- Opto-relay enabling long life and low consumption
- Microwave with pulsed emission
- Fresnel Lens with 18 zones on 4 levels with look down zone
- Total coverage 90° per 15 m
- Wall and corner mounting

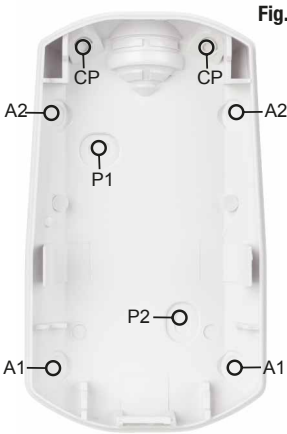
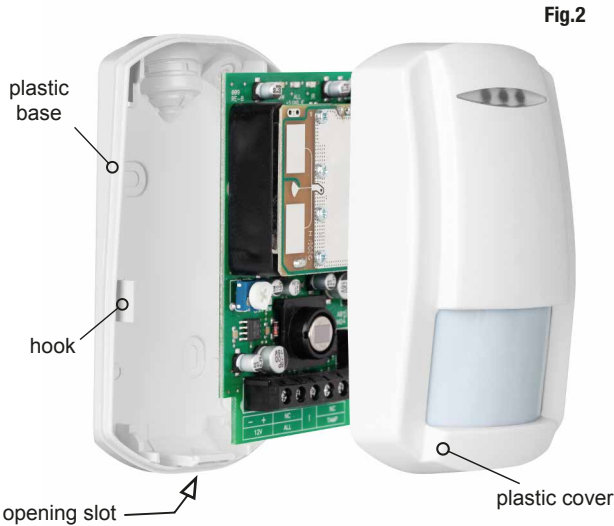


Fig.4

<div><div>– +</div><div>12 V</div></div>	12 V power supply input
<div><div>NC</div><div>ALL</div></div>	Normally closed alarm relay
<div><div>I</div></div>	INPUT: input for alarm system arming/disarming identification
<div><div>NC</div><div>TAMP</div></div>	Normally closed tamper contact

At the end of this period, the sensor will show through its **blue LED**:
if with LED ON (DIP SWITCH 2 in OFF position), only alarms;
if with LED OFF (DIP SWITCH 2 in ON position), only memories;
This function is extremely useful for the installer to regularly check correct operation by disarming and then arming the detectors from the control panel.

For Walk Test mode, follow these steps:

MW (Microwave)

Set the trimmer (range 0,5 – 12 mt) according to the room to be protected. Proceed to setting, verifying MW recordings through the GREEN LED.
Attention: MW range must be set to the minimum necessary, as microwaves can cross the walls and, in this way, detect any disturbances and movements outside the room to be protected.
Furthermore, an excessive range can compromise pet immunity.

INFRARED (PIR)

Apply the plastic cover and move in the operation area of the detector, with LED off and check PIR detection through the YELLOW LED. This procedure shows the presence of any shadow zones.

FUNCTIONING

AUTOMATIC ECO

The detector is equipped with a special algorithm able to minimize microwave emissions. The sensor can determine the status of the system (armed/disarmed) through movement monitoring in the room – this is possible even with inhibit line disconnected.
This function allows to limit as much as possible microwave emissions with system disarmed, not irradiating people in the room in vain. An important advantage which does not entail any detection, nor immunity or false alarms loss.

FUNCTIONS SETTABLE THROUGH DIP SWITCHES

Pet immunity 12 kg – DIP SWITCH 1 in OFF position

With this setting, the detector reaches its highest performance and maximum detection field.
The detector features an immunity to animals up to 12 kg, in environments with temperature higher than 10°C. For environments with temperature higher than 20°C, this setting works for animals up to 18 kg.

Pet immunity 20 kg – DIP SWITCH 1 in ON position

With this setting, the detector reduces its detection range to 10 mt.
The detector features an immunity to animals up to 20 kg, in environments with temperature higher than 10°C. For environments with temperature higher than 20°C, this setting works for animals up to 25 kg.

LED OFF – DIP SWITCH 2 in ON position

It disables detection signalization (see also REMOTE LEDs ACTIVATION).
Memory signalizations remain active.

FUNCTIONS WITH INPUT LINE

The following functions are enabled/disabled through physical system arming/disarming. In this respect, these data are considered:
12 V input = system **disarmed** **0 V** input = system **armed**

ALARM RELAY BLOCK

At system disarming, the alarm relay is blocked with NC condition.

REMOTE LEDS ACTIVATION

LED OFF AS REQUIRED CONDITION

At system disarming, the detector prepares for detection signalization. All signalizations are enabled again at the first detection and will remain active for 30 sec.

ECO FUNCTION – MW SWITCHING-OFF

LED OFF AS REQUIRED CONDITION

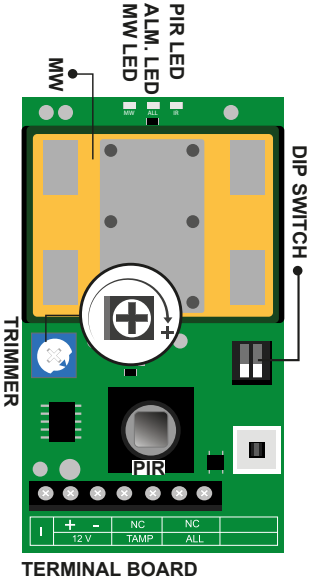
With system disarmed (+12 V on terminal board) and LED OFF (DIP SWITCH 2 in ON position), the microwave gets disabled at the same time as detection signalizations get disabled.
The microwave will be enabled at the following system arming.

MEMORY

When the system is disarmed, the memory of the first alarm occurred is visualized through **BLUE LED**.
The memory is reset at the following alarm system arming.

MEMORY DELAYS because of usage in TIME-ZONES

Exit time: all alarms occurring during the first 30" after alarm system arming are cancelled;
Entry time: all alarms occurring during the first 30" preceding alarm system disarming are cancelled.



COMPLIANCE DECLARATION

VENITEM Srl declares that this radio equipment is compatible with the essential requirements of the Directive 2014/53/UE. The declaration of conformity is available on website: www.venitem.com.

CE SPECIFICATIONS

Table of countries accepting product frequencies

AT	BE	CY	CZ	DK
EE	FI	FR	DE	GR
HU	IE	IT	LV	LT
LU	MT	NL	PL	PT
SE	SL	ES	SK	GB
BG	RO			

REFERENCE NORMS

EN50131-2-4 Degree 2, CLASS II.

The manufacturer reserves the right to add, remove or change features or functions in order to improve the product at any time.

The **ID serial number** of the detector is printed on a label on the board of the detector.

TECHNICAL FEATURES

Power supply:	12 V \pm +/- 3 V
Max consumption (in alarm memory):	22 mA
Consumption in stand-by:	8 mA
Microwave:	8 dBm 10.525 Ghz
Alarm time:	3 sec
Opto relay:	100 mA / 24 V
Tamper:	100 mA / 30 V
Working temperature:	-10°C / +55°C
Certified temperature:	5°C / +40°C
Environmental humidity:	95%
Supposed MTBF:	120.000 hours
Size:	107x61.5x43.5 mm
Performance degree:	EN50131-2-4 Degree 2, CLASS II



DISPOSAL:
This product must be disposed of using the appropriate bins for electrical and electronic products. This product must not be placed in bins for collection of other waste types.