

1. INTRODUCTION

DT16 is a dual technology curtain sensor, PIR and MW. It used for doors and windows protection. It has an adjustable range from 2mt to 3.5mt. And is equipped with a system for the recognition the direction of alarm. The lens used in the infrared has the ability to be rotated horizontally so you can install the sensor in 2 different guidelines (vertical and horizontal on demand)

2. DESCRIPTION OF THE FUNCTION: DIRECTION ALARM

The sensor is able to detect the direction of movement so as to trig in alarm only when the passage is made in a given sense. Activation is done by DIP4 ON. (with DIP4 OFF, the sensor triggers an alarm in both directions) The selection of the sense of alarm is handled through the DIP5. This function is intended for applications where the sensor is installed on the windows and / or doors often open, and there is continuous passage on the inner side.

The passage in NOT PERMITTED direction, generates immediate alarm signaling with LED lights outside.

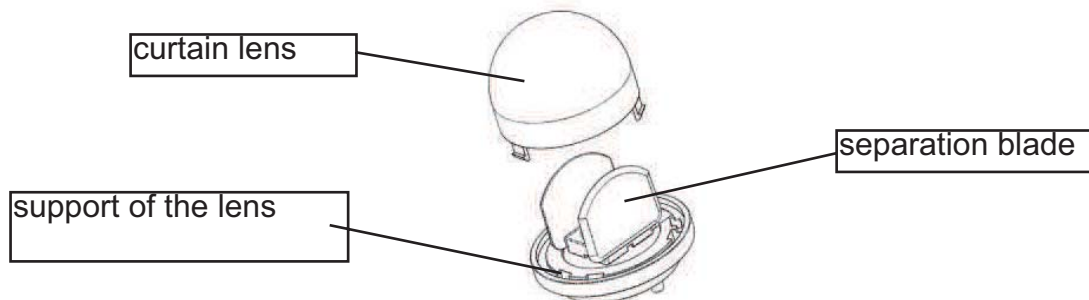
The passage in PERMITTED direction generates the activation of the inhibition time of 2 minutes, with the relative signal by short flash of the LED every 2 seconds. During this time period (2 minutes) there any violation of the sensor will not generate alarm.

During the last 10 seconds of the period of inhibition, the LED will begin to flash rapidly to indicate that the sensor will return in the operating status and will be able to generate alarm.

Example: If the sensor is installed on access to a terrace, it is possible come and go for 2 minutes without generating an alarm. After this time, the sensor will be operative, giving alarm in the programmed direction.

3. LENS AND DIP-SWITCH SETUP - LED INDICATION

The sensor is designed to be installed to protect the openings, for example between the window and the shutter, or to doors and gates. Due to the high angle of coverage and the ability to rotate the lens on the support of the pyroelectric, you can install it in different ways, from top to bottom or on one side.

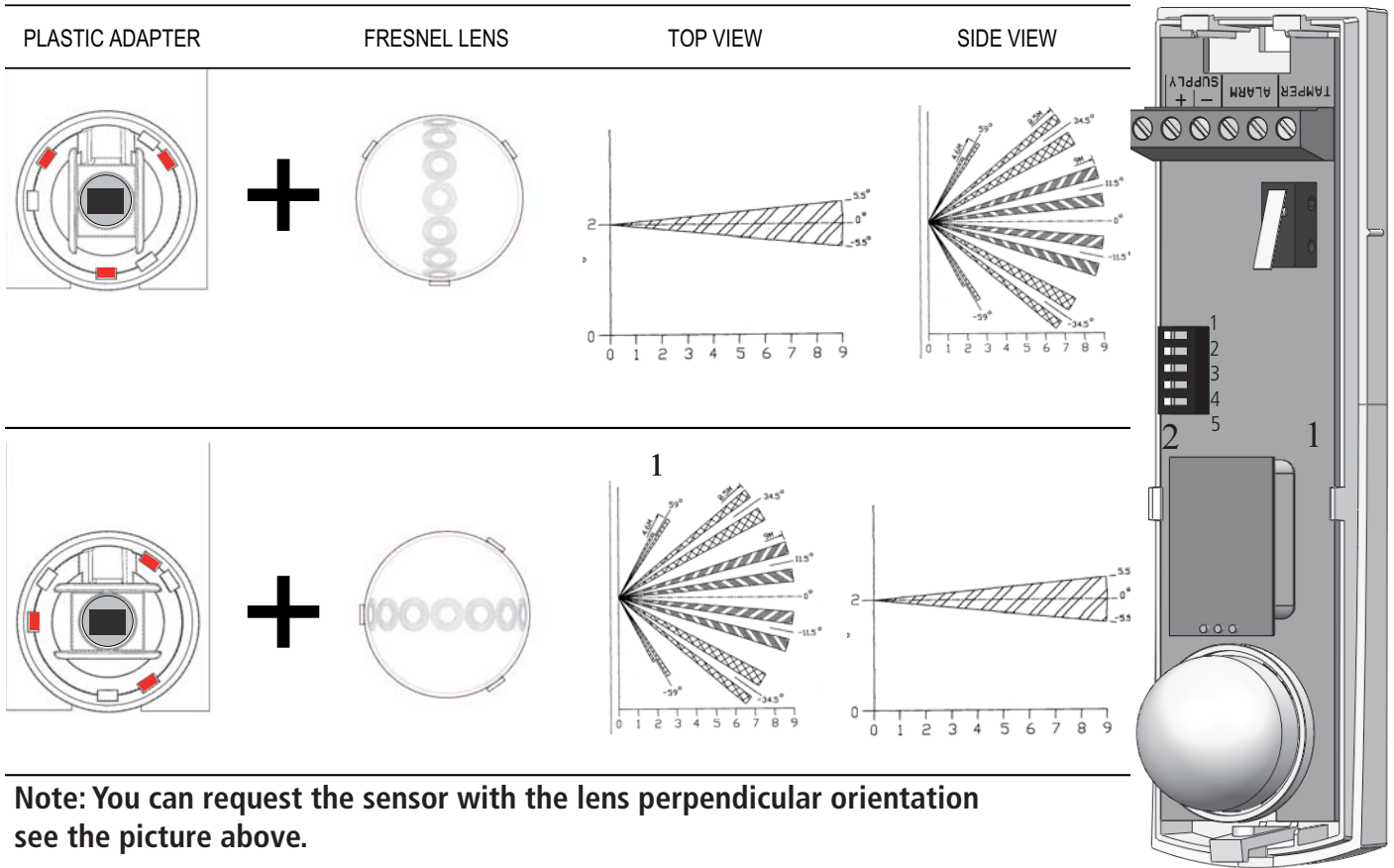


The sensor is equipped with external and internal LED.

In case of alarm from one technology will only turn on the LED internal (short flash for the microwave, turning on for 2 seconds to PIR). When PIR and MW go in alarm (AND alarm) the external led turn ON for 4 seconds.

Other reports:

- Slow flashing alternating internal and external LED: the initialization phase
- Short flash external LED: inhibition time, result of PERMITTED passage with DIRECTION function ON (DIP 4 ON).
- Rapid blinking of ext.LED: the last 10 seconds of the inhibition time (DIP4 ON).



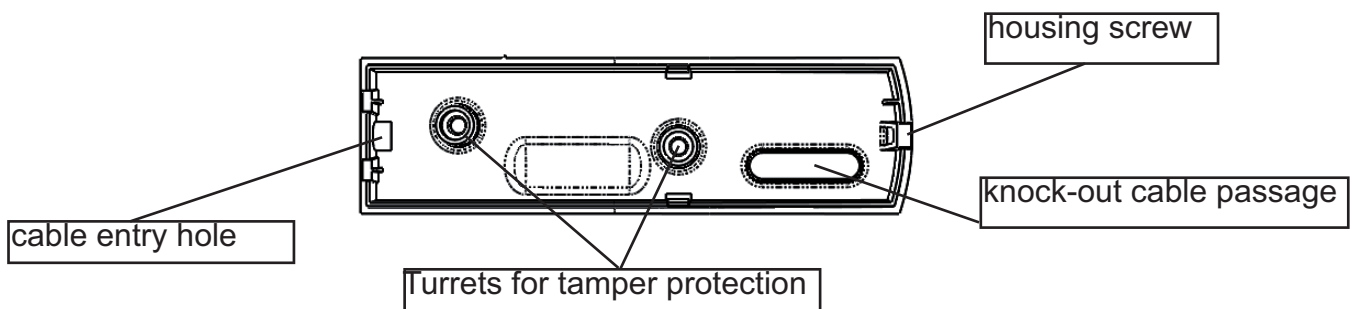
Note: You can request the sensor with the lens perpendicular orientation see the picture above.

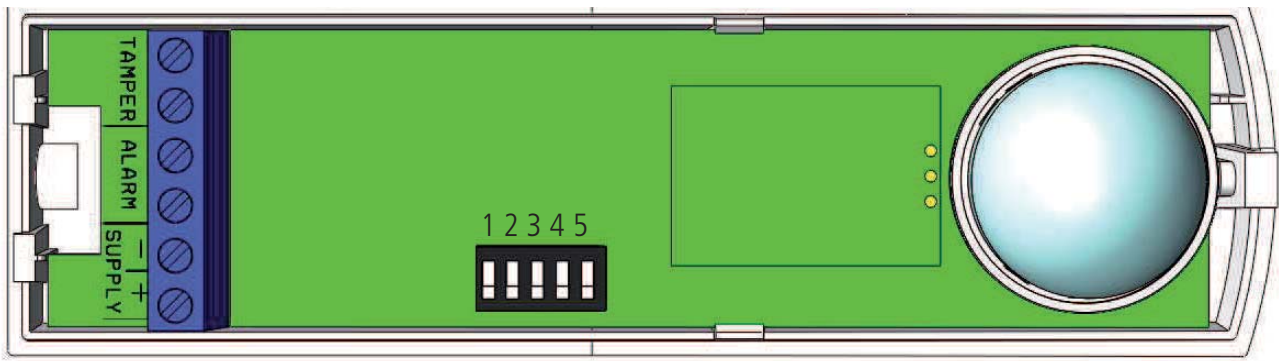
DIP-SWITCH	OFF	ON
DIP 1	LED disable	LED enable
DIP 2	1 pulse for alarm	2 pulse for alarm
DIP 3	2mt coverage	3.5mt coverage
DIP 4	alarm from all direction	Alarm from one direction*
DIP 5	1 --> 2 alarm	2 --> 1 alarm

*To use the directional system optimally, you need to be inserted into the lens on the pyroelectric element separator (see figure) and install it paying attention to the direction selection (dip-sw5)

4. INSTALLATION AND CONNECTION

Choose a suitable location, mount the sensor using the turrets tear to get the tamper protection. The cable can go from a tiny hole next to the terminals, or if the section is very large, you can switch from the knock-out (see figure below)

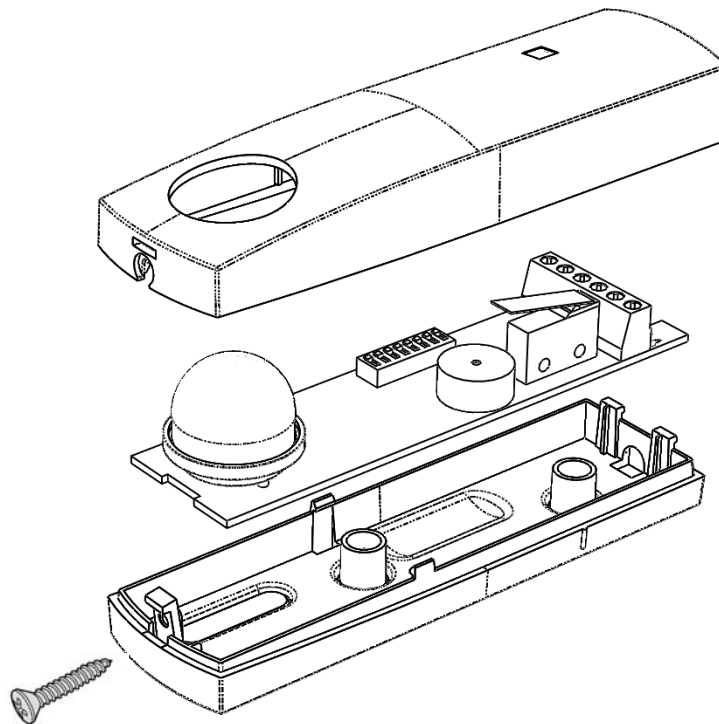




TAMPER: TAMPER ANTIOPENING LINE - 400mA 40Vdc

ALARM: ALARM CONTACT 100 mA - 40 V - 16 Ω

SUPPLY: 13.8Vcc 26mA Max



Fixed base rear slide the cable through the holes selected, secure the board in its housing interlocking and fix the cables into the appropriate terminals. Use the scrow to fix the top.

In the figure at the end of manual, you can see different types of installation, in the center of the window or on a side. The drawings are for guidance only, so you should always test the sensor.

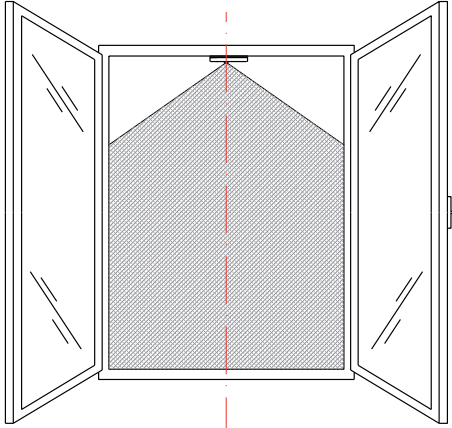
5. WARM UP AND OPERATION

At start up the sensor needs a warm up time, this time is about 40". There will be fewer violations during this time is the faster entry into operational mode.

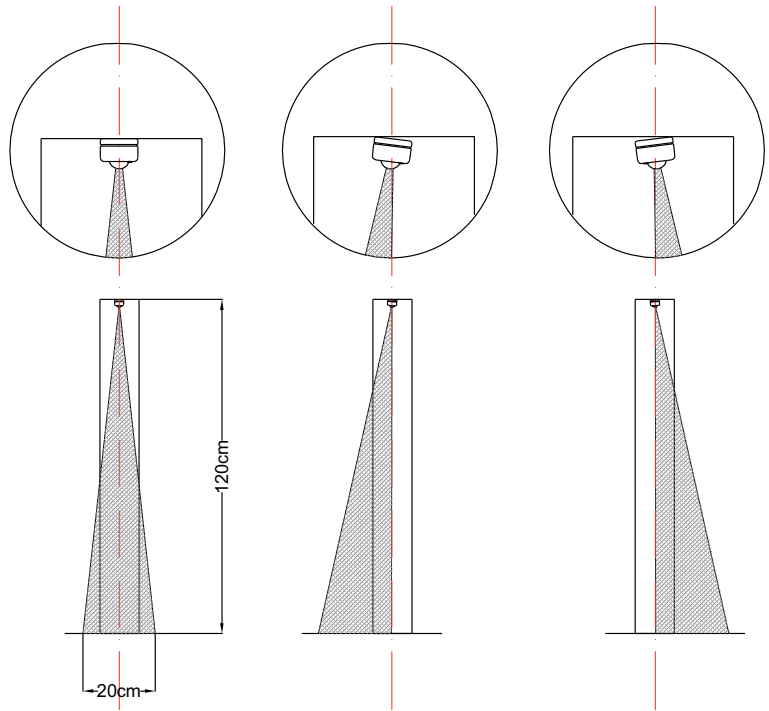
The WARM UP is represented from internal and external blink LEDs

Once you have finished this, you may perform the tests necessary air flow.

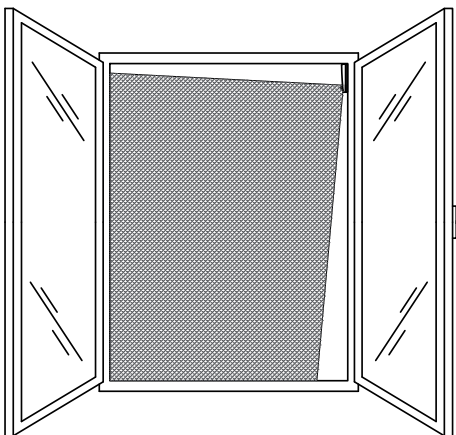
FRONT VIEW



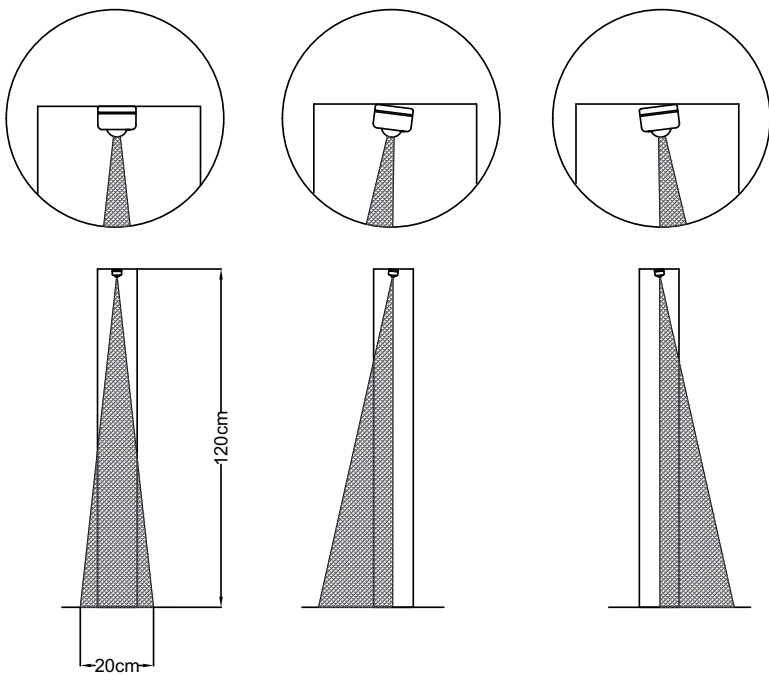
SIDE VIEW



FRONT VIEW



SIDE VIEW



SPECIFICHE TECNICHE / SPECIFICATIONS / SPECIFICATIONS TECHNIQUES

<i>Alimentazione / Input Voltage</i>	<i>10 to 15 Vdc</i>
<i>Consumo / Current Drain (Alarm/Stand-By)</i>	<i>(18 mA / 26mA) @ 13.8 Vdc</i>
<i>Portata in lunghezza / Coverage</i>	<i>2 - 3,5 m</i>
<i>Portata in larghezza / Angle</i>	<i>165°</i>
<i>Piroelettrico / PIR</i>	<i>2 elementi / 2 elements</i>
<i>Microonda classe ricevitore / microwave receiver class</i>	<i>2</i>
<i>Lente (fasci e livelli) / Lens (beams and levels)</i>	<i>6 beams on 1 levels</i>
<i>Durata allarme / Alarm period</i>	<i>4 sec.</i>
<i>Antiapertura / Anti-opening</i>	<i>✓</i>
<i>Contatto di allarme / Alarm's Contact</i>	<i>100 mA - 40 V - 16 Ω</i>
<i>Contatto di tamper / Tamper Switch</i>	<i>Max 400 mA - 40 Vdc</i>
<i>Temperatura di esercizio / Operating Temperature</i>	<i>From -25 °C to +55 °C</i>
<i>RFI Protezione / Protection</i>	<i>10 V / m (20 /1000 MHz)</i>
<i>Led WALK TEST (MW and PIR)</i>	<i>✓</i>
<i>Cover / Housing</i>	<i>ABS</i>
<i>Dimensioni / Dimensions</i>	<i>L145 x H37 x P30 mm</i>

EN 50131-2-2 Grade 2 EN 50131-2-2 Class 2



Installation must be carried out following the local installation norms by qualified personnel.

The manufacturer refuses any responsibility when changes or unauthorized repairs are made to the product/system.

It is recommended to test the operation of the alarm product/system at least once a month. Despite frequent testing and due to, but not limited to, any or all of the following: tampering, electrical or communication disruption or improper use, it is possible for the product/system to fail to prevent burglary, robbery, fire or otherwise. A properly installed and maintained alarm system can only reduce the risk that this happens.

L'installazione deve essere eseguita a regola d'arte da personale specializzato. Il costruttore declina ogni responsabilità nel caso in cui il prodotto venga manomesso da persone non autorizzate. Si raccomanda di verificare il corretto funzionamento del sistema d'allarme almeno una volta al mese, tuttavia un sistema di allarme elettronico affidabile non evita intrusioni, rapine, incendi o altro, ma si limita a diminuire il rischio che tali situazioni si verifichino.