



12 Vdc Reflex Sensor – Barrier with dual technology Active Infrared + Passive Infrared - Alarm and Tamper Outputs by solid state relays N.C.



# USER MANUAL



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- **1.** Mounting and wiring the RFX sensor
  - a) Place the sensor at the center of the HIGH side of the area to be PROTECTED (between Window and roller shutter or immediately outside the roller shutter)
  - b) Fix the MAGNET in the wall at 1 cm. to Sx or Dx from the center of the long side of the sensor by making an hole by the drill .
  - c) Put anti-remove jumper onto ON if the magnet is plugged in , otherwise in OFF position (no Anti-remove function setted)
  - d) Fix the SENSOR using the 2 dowells supplied of 5mm. by the 2 holes on the sensor sides
  - e) Connect Tamper and Alarm OUTPUT (N.C.) contacts and the power supply (+ 12V / GND)
  - f) Close the sensor cover and lock it with the screw in the center and put the screw cover
  - g) Make some passages trought the gateway to verify its operation

### 2. RFX sensor board disposition



## 3. Sensor Adjustments RFX

The Sensor is already setted for a medium sensitivity that covers most of the installations, but if you want to increase or decrease the sensitivity of the Active and / or the Passive sensor to make the installation PET IMMUNE, you can adjust the 2 PARAMETERS separately from 1 (max) to 10 the sensitivity of the active and passive part. In this case remove the front of the box and wait for about 30 seconds, then proceed as follows :

- a) PRESS the PROG button twice quickly, the Red LED shows the sensitivity already setted for the active and the yellow LED for the passive one. Hold down the button, the Red LED starts to BLINK, release the button after the desired number of flashes, THEN the setted number of flashes it is repeated, then pressing again the PROG button starts to BLINK the Yellow LED, release the button after the desired number of flashes then the setted number of flashes it is repeated.
- b) From 1 to 10, more flashes correspond to a lower SENSITIVITY...
- c) At the end of the settings wait about 10 seconds and close the plastic cover
- d) Secure the cover with the supplied screw and cover it with the screw cover
- e) Wait for about 30 seconds and go through the pass to verify the ALARM condition
- *f*) When the passive sensor "sees" a passage, the Yellow LED lights up , the Red LED lights up when the alarm is triggered, after every alarm transmission the Sensor enters an halt condition for about 5 seconds .



#### 4. General description RFX sensor

The dual-technology RFX sensor, exploits the benefits of active infrared technology, which allows you to generate a signal and synchronously detect changes and passive infrared technology that is useful for detecting "hot moving bodies" and helps to discriminate things from people / animals. ACTIVE technology generates a very narrow infrared beam that limits the detection range to the minimum necessary avoiding FALSE INTERVENTIONS that characterize other technologies that fail to "delimit" equally easily the range of action. The ACTIVE part is also able to adjust the sensitivity of the intervention, so you can exclude pets from the detection. The PASSIVA part is equipped with a CUSTOM fresnell lens that accepts very close intervention fields. The lens is protected against masking with both SPRAY and adhesive tape. Every attempt to mask the lens , creates the OPENING of the TAMPER contact also if the alarm system off, the attempted MASKING is promptly acknowledged. The merging of these 2 technologies has allowed to create a SENSOR with HIGH STABILITY OPERATION and with a narrow field of intervention . (Tent effect).

## 5. General Technical Data

	Dual Technology Covered Area Operating Angle	<ul> <li>: Active Infrared (950 nm) and Passive Infrared (5 ÷ 12) μm.</li> <li>: 1.3 x 2.2 Meters (Width x Height)</li> <li>: ± 50 ° x ± 4 ° (Lateral x Depth)</li> </ul>
	Tamper proof PIR Anti-Masking Protec. Anti-remove protection	: With Tamper on Front cover : I.R. Active beam on Lens P.I.R : REED contact with MAGNET (on duty)
	Temperature compensation	: on Digital P.I.R.
	<b>6.</b> Other datas	
	Power supply	: 12 Vdc - 30 mA
	Trigger time Turn ON time	: $0,2$ Secondi : $\geq 2$ Secondi
	Outputs Alarm / Tamper proof	: Solid state N.C. contacts (max 100 mA)
	Temperature operating IP grade	<ul> <li>: - 25° / + 50°C Ambient</li> <li>: IP 30 (it can operate outside but it must be protected from direct rain)</li> </ul>
	Dimensions Weight	: (210 x 40 x 40) mm. Lenght x Width x Height : 0,15 Kg.
Ord	er codes Desc.	ription
RFY	K B Reflex Sens	sor at 12 Vdc for doors and windows WHITE



