1. Description

The APRODW detector is a Radar Doppler sensor for controlling industrial doors and automatic doors. It has a Radar-linked Swap Relay output that detects movement approaching, receding and is able to ignore side traffic. APRODW is developed in planar technology and can be configured in one-way mode (it can independently reveal the two directions of direction forward or backward) or bidirectional (it reveals both directions of direction). A microprocessor processes the received signals, generated by the Doppler effect, and sends a consent to the command to the output. The configuration of the device is done via WiFi connection.

2. Technical specifications

Supply voltage Device	12 - 27 VDC 50-60 Hz 5.4 W
Installation Height	3m - 7m
Operating Temperature	25°C / +55°C
Detection Range	10m
Recommended Relay	1A-24Vdc
Outputs Cable length	2,50 mt (standard) o custom sizes
Color Main Body	Black
IP	IP65
Dimensions / Weight	140 mm (L) x 140 mm (H) x 150 mm (P) / 550 g
Consumption	5 W
Technology	Radar Doppler
Warranty	24 Months
WiFi range	10m

We declare that the product is in compliance with the essential requirements of Directive 2014/53/EU (RED).

The full declaration of conformity is available on the www.guglielmisrl.com

3. List of components in the box

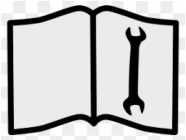
- Sensor:



- Wall mounting bracket :



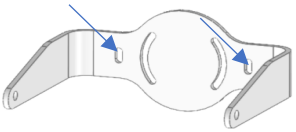
- Instruction Manual:



4. Assembly instructions

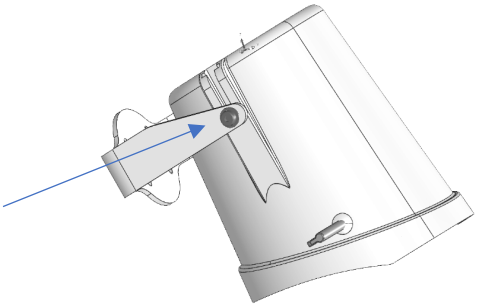
Installation must be carried out by export personnel. The manufacturer declines all responsibility for any damage caused by an incorrect and unsafe installation procedure.

Drill the installation surface in correspondence with the holes on the fixing bracket with 70mm center distance and fix it firmly with appropriate dowels and screws depending on the anchoring surface



- Fix the sensor body to the bracket with the appropriate Screw + Nut KIT.

- Proceed with the wiring according to the instructions in the Electrical Connections chapter.





It is not recommended to mount the sensor if it faces a fluorescent lamp or in any case at a minimum distance of 2 meters. Avoid installing the detector on moving parts or those subject to strong vibrations. Avoid installing the sensor in environments subject to sudden changes in temperature and/or humidity.

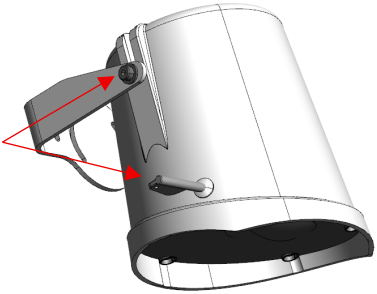
5. Electrical connections

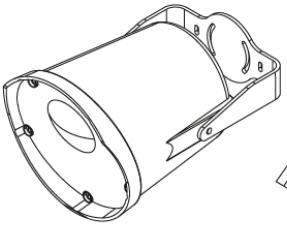
The sensor must be connected to the control system in accordance with the following table:

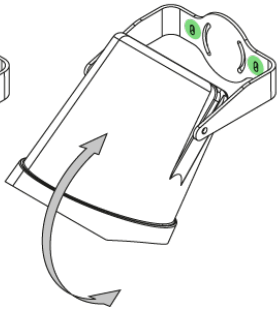
Cavo	Funzione	Colore Cavo
1	Power supply	RED
2	Power supply	BLACK
3	-	GREEN
4	-	BLUE
5	-	YELLOW
6	NO	BROWN
7	NC	WHITE
8	C	GREY

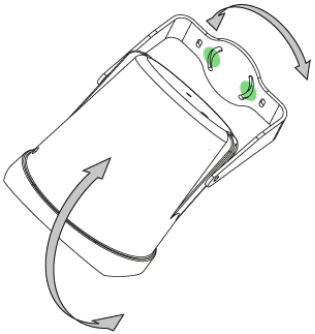
6. Radar Targeting

The radar can be pointed at the detection area by rotating the sensor from the bracket or by turning the adjustment key on the side. The sensor should always be pointed at an area where you intend to detect vehicles, people, or other moving objects.









7. Requirements for WiFi connection to the device

To configure APRODW, you need a PC or a Smartphone or any other device that allows the possibility of connecting via the WiFi standard .

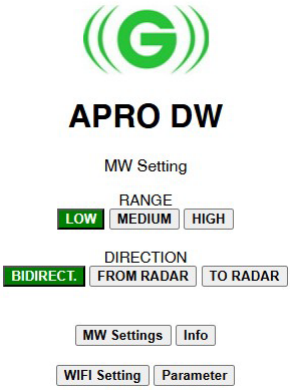
Network search and connection

- It is recommended that you turn off the data connection from your mobile phone
- Power the appliance
- From your device, search for networks and locate the **SSID: AproDW-WIFI**
- Connect by entering your standard **password: 123456789**
- The "AproDW Home" home page will open

8. Home Page

MW Setting

From this page you can access the various other functions such as microwave behavior "MW Crossing – MW Parameter", WiFi settings "WIFI Setting", "Info" information and system restart button "Reboot Sensor".



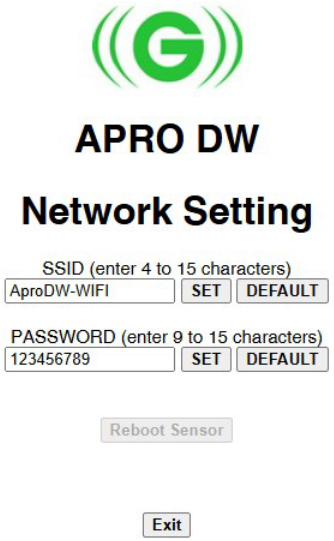
RANGE:
Divided into 3 detection options based on your needs.
LOW – MEDIUM – HIGH

DIRECTION:
BIDIRECTIONAL – FROM RADAR – TO RADAR

9. WiFi Parameter Setting

APRODW has a standard configuration.
For security and customization reasons, we recommend that you change your SSID and password.
Press Wi-Fi Settings

Network Setting



Change the SSID and password as you like. It is recommended that you rename the SSID to describe where the sensor is geographically located. For example, "Entrance_1A".

It is recommended that you set your password to contain uppercase letters, lowercase letters, and numbers.

When the configuration is complete, press SET and then Reboot.

Turn off power to the appliance for 5 seconds. Power, dissociate the previously associated wi-fi, start from point 8 with the changes made.

If necessary, the Default button returns the login credentials to the Default values

10. Page MW Crossing Settings

This page adjusts the behavior of the radar with respect to horizontal crossing.
The active function is highlighted in blue.
Enabling the feature will disable the direction box on the MW Parameter page.



DISCRIMINATING (VEHICLE ONLY): YES

- Discriminates against people (Detects vehicle only)

ANTI-CROSSING: YES

- Discriminates against side traffic (DOES NOT detect parallel crossing)



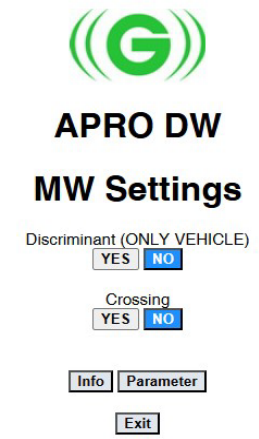
DISCRIMINATING (VEHICLE ONLY): NO

- Does not discriminate (Detects all movements)

ANTI-CROSSING: YES

- Discriminates against side traffic (DOES NOT detect parallel crossing)

With ANTI-CROSSING ON, the direction cannot be selected in the settings
If MW Crossing is turned off, the MW Parameter page will automatically set the direction to bidirectional.



DISCRIMINATING (VEHICLE ONLY): NO

- Does not discriminate (Detects all movements)

ANTI-CROSSING: NO

- Does not discriminate against side traffic (Detects parallel crossings)

DISCRIMINATING (VEHICLE ONLY): YES

• Discriminates against people (Detects vehicles only)

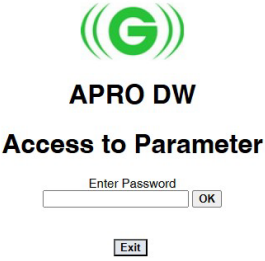
ANTI-CROSSING: NO

• Does not discriminate against side traffic (Detects parallel crossings)



11. Page MW Parameter

Access to the parameters is accessible via a password provided by the manufacturer.



12. Page Info “Device Info”

This page summarizes the system information, such as the firmware version of the STM32 detection module of the Wi-Fi module.



Installed Firmware Versions

Manual Drive My Relay: ON/OFF

- The relay state can be changed manually.

Reboot Sensor

- Used to restart the sensor

Using the "Manual Drive MW Relay" button, you can manually change the status of the relay.

Real-time information about device detection is also provided.

13. Safety recommedations



The device must be protected externally with a 0.5A fuse. In the event of a fault, it should only be replaced with a component of the same characteristics.

The sensor should only be installed by qualified personnel.

Repairs carried out by unauthorized personnel are not permitted, under penalty of voiding the warranty.