

## Operating description

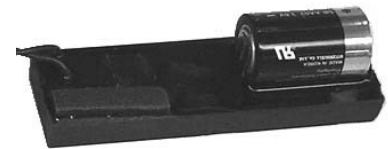
The WDD is a wireless sensing edge system. The sensing edge is conformed of, a conductive rubber section, sealed wireless transmitter, and end cap. The sensing edge is installed the full width of the door in the doors soft bottom bag.

Obstacles/obstructions in the door opening will be sensed by the edge when the door comes down and makes contact with it. The conductive rubber triggers the transmitter to send a signal to the controller to reopen the door. A very short and rapid transmission happens only when the sensing edge makes contact with an obstacle/obstruction and will not trigger again until that sensing edge returns back to the open state.

The system operates according to the open loop principle. The open loop operation offers a longer life for the transmitters lithium battery, because energy is consumed only when the sensing edge makes contact with a obstacle/obstruction, otherwise it is inactive.

## Technical description for ARF6803 Transmitter

Power supply:	Lithium Battery 3.6V 1.2Ah
Frequency:	868.3 MHz
Effective radiated power:	-20dBm or 10µW
Transmission Mode:	Amplitude modulation 100% or ASK
Battery Life:	10 years no transmissions or 100,000 detections minimum
Seal coating:	UV-cured resin
Performance:	Transmission speed 2400bps NRZ 100m operating radius in open space



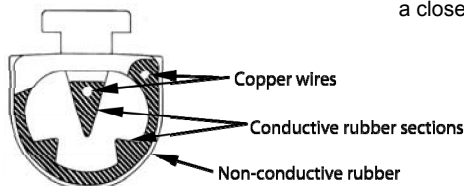
## Technical description for ARF6838 Receiver

Power supply:	24vac or vdc
Frequency:	868.3 MHz sensitivity 0.7µV for 12dB S/N (BER0.1)
Bandwidth:	< 400kHz
Reception Mode:	Amplitude demodulation. Super heterodyne with simple frequency change
Relay out::	NO - NC
Response time of the complete system:	< 500ms
Operating temperature:	-20°C to + 70°C



## Technical description of the Sensing egde

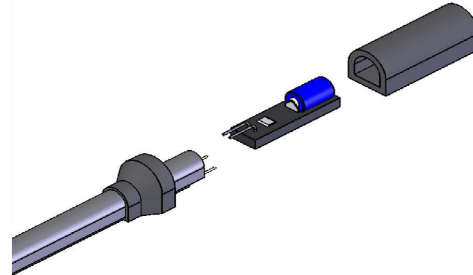
Material:	EPDM 65 degrees shore A
Operating temperature:	-20°C to + 80°C
Protection index:	IP 67 with two sealed ends
Operating Mode:	The rubber section consists of two conductive rubber sections that each envelop a copper wire, and an outer insulating section of non conductive rubber. Pressure lower than 10N on the bottom of the section creates a short-circuit between the internal conductive parts and transmits a closed contact to the extremities through the copper wires.



## WDD Sensing edge

The WDD transmitter wires are soldered to the sensing edge leads and fully encapsulated in a rubber housing. The transmitter housing is adhesively sealed to prevent water and contaminants from effecting operation of the system. The WDD sensing edge assembly is then adhered in the doors soft bottom edge.

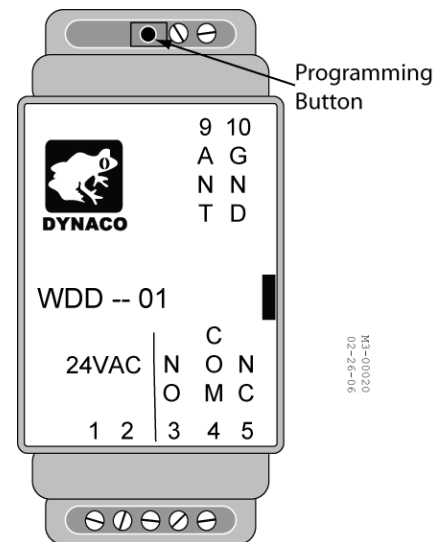
Replacement of the sensing edge should be preformed by a certified DYNACO dealer/technician or by DYANCO USA, Inc.



## Synchronizing the system

Follow the instructions below to synchronize the transmitter to receiver. A red LED illuminates across from connector 9 indicating that the WDD receiver is operational and at a ready state.

1. Lower door so that the sensing edge can be triggered easily from the control box height. Push in the E-stop to hold the position of door.
- Note: If control box mounted away from door, an assistant may be need for synchronizing the system.**
2. Push and hold sync button using small screw driver.
  3. The green LED will illuminate next to the red LED.
  4. Trigger the sensing edge on door by pushing up on the soft bottom bag. The green LED will blink.
  5. Release the sync button.
  6. Test the synchronization: Trigger the edge and a audible click will be heard, also the LED on the DYNALOGIX (DY4100) control board will illuminate.



## FCC & IC Regulation

**Model:** ARF 6803  
**FCC ID** A5Y6803  
**IC:** 10163A-ARF6803E

Pursuant to FCC 15.21 of the FCC Rules, changes not expressly approved by DYNACO USA, Inc. might cause harmful interference and void the FCC authorization to operate this product.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This product complies with FCC OET Bulletin 65 radiation exposure limits set forth for an uncontrolled environment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.