

## Operational description

The FW2-MAG is an advanced magnetic contact sensor with integrated RF transceiver designed to be a fully supervised low-current device

The FW2-MAG is a part of the FREEWAVE2 which is a supreme wireless line of devices that uses an advanced 2way RF transceiver combined with an intelligent communication protocol.

A built-in reed switch and/or an external wired input may be applied in this device.

To maximize security, an 8.2k end-of-line resistor is monitored on the external wired input.

FW2-MAG uses smart message control, which verifies that all messages are successfully transmitted, so that no intrusion event will be uninformed to the system.

Each FW2-MAG has a unique factory set ID code (24bit) which by registration is set into memory of the paired FREEWAVE2 TRANSCEIVER, enabling more secured communication and devices to be remotely controlled from a specific transceiver.

### OPERATION

The Wireless Magnetic detector transmits the following events data:

**SUPERVISION** - a periodical transmission every 2 min. indicates detector's presence.

**ALARM** - Alarm transmission triggered by intrusion detection by REED SWITCH and WIRE input.

(Selectable, See section 8: SETTING THE OPERATION MODE).

**LOW BAT** - Whenever the battery reaches a pre-set low level (~2.4V) Battery Low signal will be sent with the next scheduled message (Supervisor, Alarm, etc.).

**TAMPER** - Whenever the FW2-MAG cover is removed or tore off wall, a message will be transmitted with "Tamper" signal.

### FEATURES

- Frequency: 916.5 MHz
- Type of modulation: GFSK
- State-of-the-art 2 way wireless security system
- Freewave2 advanced & secured RF protocol
- Low current Technology
- Powered by a single 3V Lithium battery
- Battery life: more than 5 years
- Contact Open/Close transmission
- Tamper Open/Close transmission
- Supervision transmission
- Battery status send on every transmission
- Range up to 500m on open space.
- Unique ID number
- Front and back tamper.
- Alarm trigger either by the internal reed switch and / or by wired terminal
- Wired terminal with E.O.L 8K2 resistor.