Part 1. Wireless Magnetic Contact Sensor

## magnetic contact sensor

* + 1. Entry Door or Window Switch
       1. The Entry Door or Window Switch shall be the Echoflex MC-31 Magnetic Contact Sensor Series by Echoflex Solutions, Inc., or equal.
       2. Mechanical

##### Switches shall be constructed of PC & ABS injection molded plastic

##### Switches shall provide a button for manual linking to controllers

##### Switches shall mount using screws or peel-and-stick using double sided tape or Velcro®

##### Switches shall be available in white

##### Switches shall have a fully enclosed electronics assembly

##### Switches shall utilize a magnetic switch to detect open status of a window or door

##### Switches shall include a replaceable battery

* + - 1. Electrical
         1. Switches shall use 902 MHz EnOcean radios. Systems that use other frequencies radios shall not be acceptable
         2. Switches shall be powered by a single replaceable coin cell battery

Battery life shall provide up to 10 years operation based on an average of 10 operations per day

* + - * 1. Switches shall have a range of at least 24 m (80 ft.) – commercial office space (typical), up to 100 m (330 ft.) line of sight
        2. Switches shall comply with FCC Part 15.231 and IC RSS- 210
      1. Functional
         1. Switches shall support linking to a compatible controller as a room occupancy state latch or for the purpose of switching lighting or miscellaneous electrical load control
         2. Switches shall support a radio-range confirmation test mode

Switches shall provide visual indication of the communication signal strength with compatible lighting controllers

* + - * 1. Switches shall support a magnet placement test mode

Switches shall provide visual indication of the switch state to verify magnet placement

* + - * 1. Switches shall allow selection of the event which triggers a message

On each open or close event and heartbeat

Open events and heartbeat

Closed events and heartbeat

Status only on heartbeat

* + - * 1. Switches shall allow selection of the heartbeat period including an option to disable the heartbeat
        2. Switches shall allow selection of providing battery status via a wireless message
        3. Switches shall allow selection of the wireless message profile used
        4. Switches shall allow enabling of a redundant message
        5. Switches shall allow disabling of the LED blinks when the switch opens or closes
        6. Switches shall allow restoring the switch to factory defaults