

## ZONITH BLUETOOTH IO MODULE

The ZONITH Bluetooth IO Module is used for monitoring digital alarm input signals from 3rd party alarm panels and technical installations. The alarm signals are wirelessly transmitted to the ZONITH Bluetooth Receiver and from there passed over to the ZONITH Alarm handling platform.

### Dimensions

Size: W:67 x H:90 x D:16 mm  
Weight: 72 grams (with batteries)

### Ambient Temperatures

Operating: Max: +50 °C, Min: -10 °C  
Storage: Max: +50 °C, Min: 0 °C

### Bluetooth

BT 4.0 and BT 4.1 stack BLE

### Battery (Not included)

3 pcs. CR2477 (non-chargeable, replaceable) The estimated battery life time depends on the number of inputs being in HIGH state. If no inputs in HIGH state the estimated life time is 2 years. If one input constantly in HIGH state the estimated battery life time is 1 year.  
Estimations based on room temperature [20°C]. Colder environments will affect the battery life time.  
Disposal of the used battery must be done following the local regulations

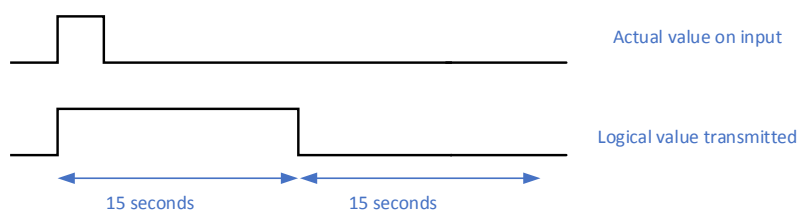
### External power supply

+5V to +24V DC

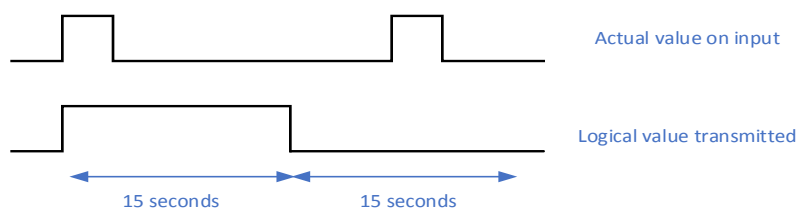
### Input Signals

5 Digital Input signals +5V to +24V DC

When an input changes value the system keeps the alarm state for 15 seconds to ensure that the change is captured by the ZONITH Alarm handling platform. After this period of time the actual value of the input is compared to the value that triggered the change. If this is different then it locks the logical value for 15 seconds again to ensure that the ZONITH Alarm handling platform received this change again.



The alarm state is triggered immediately when the change is detected. The locking of logical values for 15 seconds periods can discard some pulses as illustrated below:



The second trigger to HIGH is discarded as this happens during the 15 seconds lock period.

### Transceiver

TX Power: -20 to +4dBm  
Frequency: 2.4 – 2.485 GHz  
Adaptive Frequency Hopping (AFH)  
Sensitivity: -93dBm Bluetooth LE

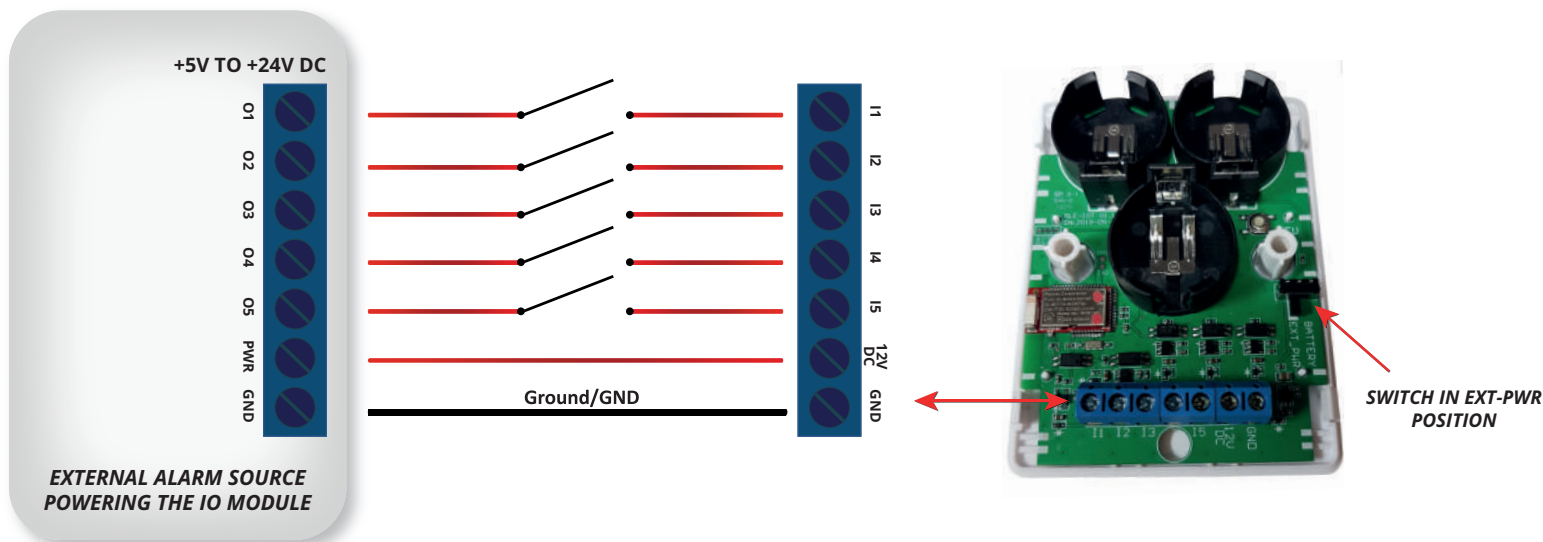
### Range

Max distance to ZONITH BT Receiver:  
15 - 20 meters (49 – 65 feet)  
in open space.

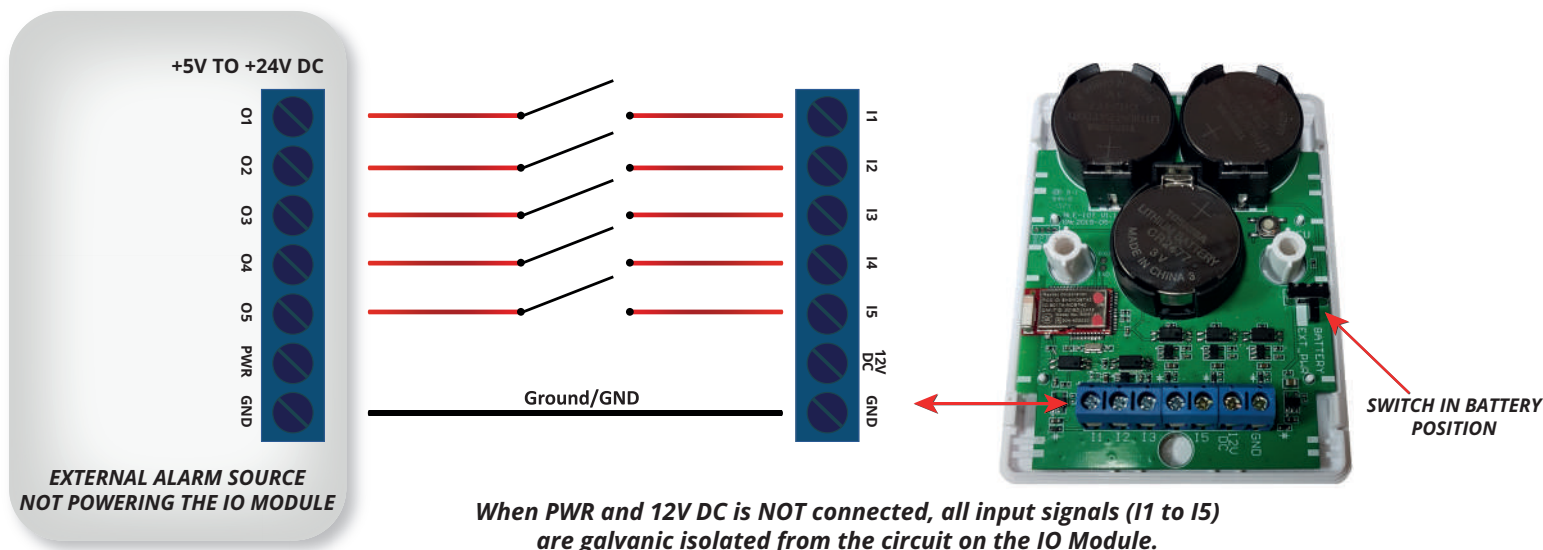


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IO MODULE**

## WIRING WITH EXTERNAL POWER SUPPLY



## WIRING WITHOUT EXTERNAL POWER SUPPLY



### Disclaimer

Zonith A/S makes no warranties that all functionality is supported neither by the local network nor by the selected Bluetooth devices used by the system. Specifications are subject to change without notice. All product or service names are the property of their respective owners.

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