ZONITH

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.
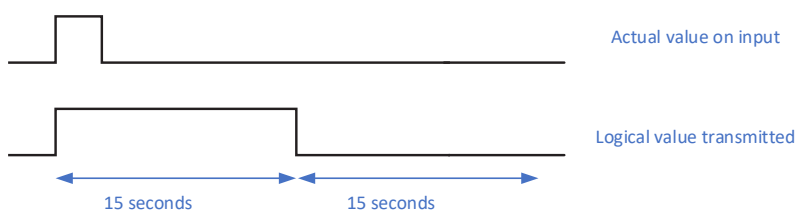Disposal of the used battery must be done following the local regulations

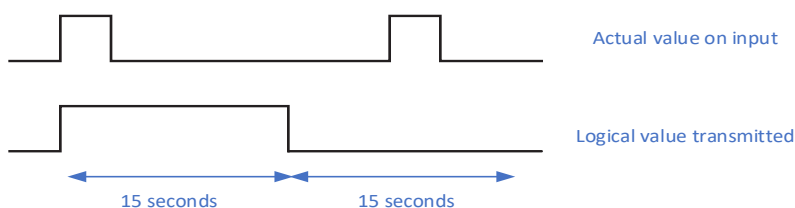### External power supply
+5V to +24V DC

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.

Actual value on input

Logical value transmitted

15 seconds   15 seconds

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:

Actual value on input

Logical value transmitted

15 seconds   15 seconds

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)
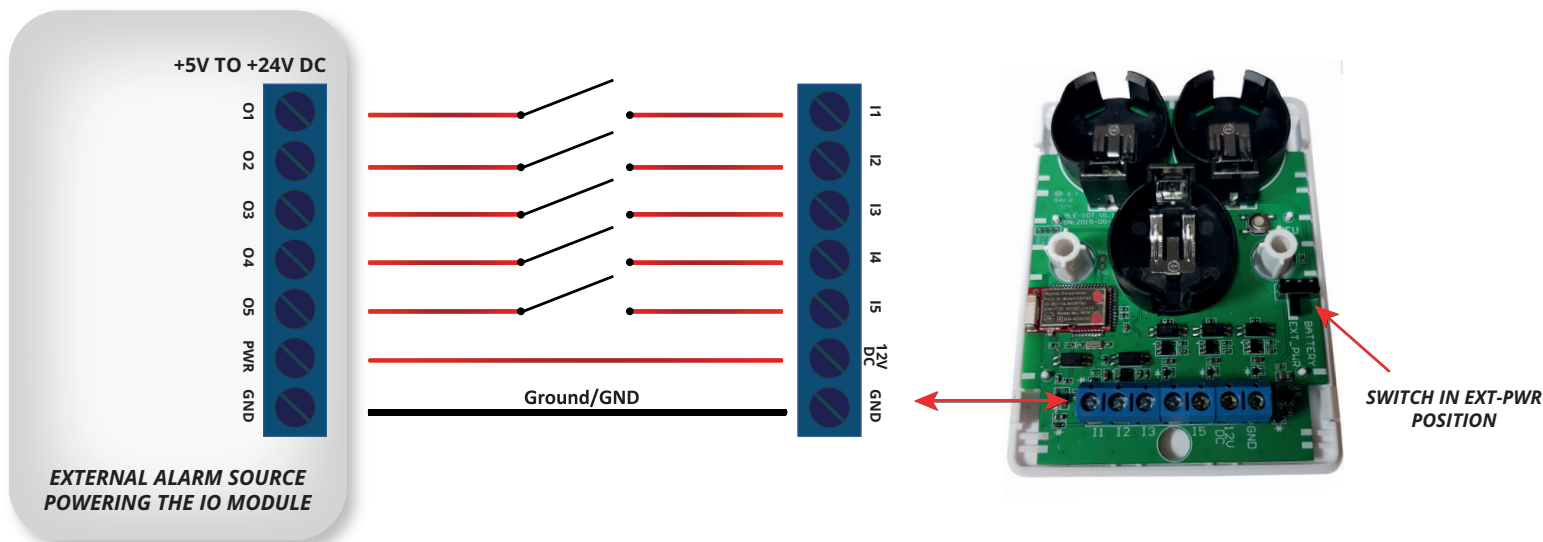Sensitivity: -93dBm Bluetooth LE

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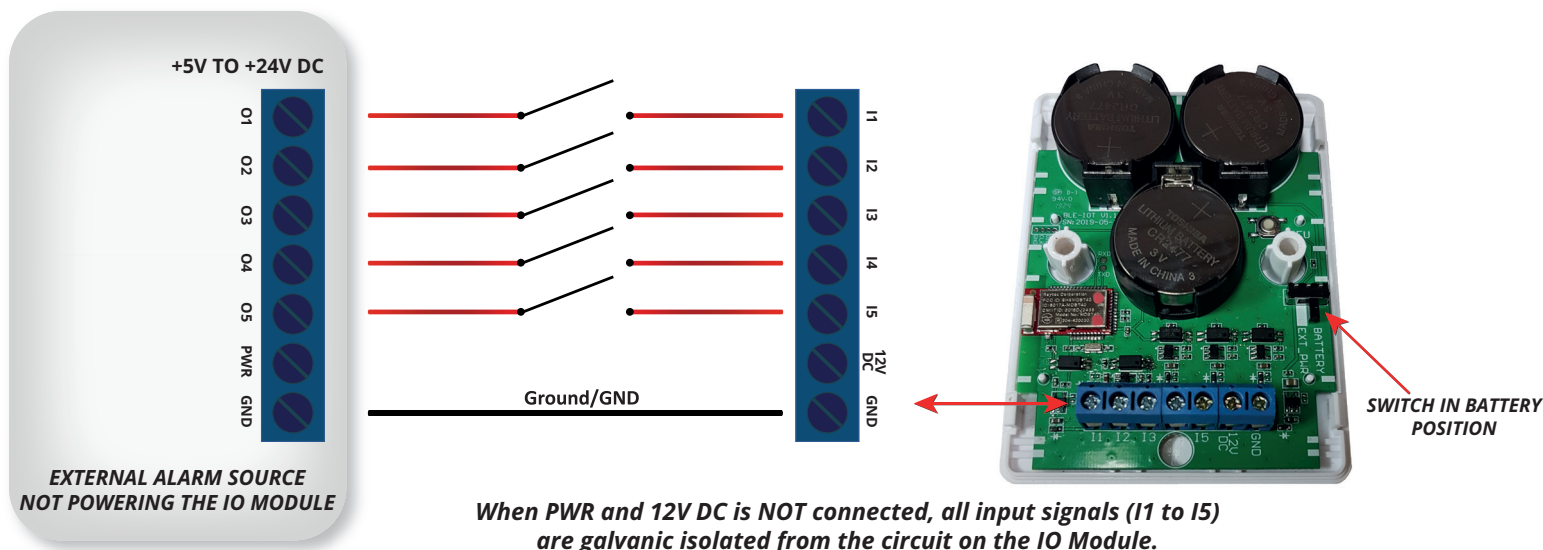15 - 20 meters (49 – 65 feet)
in open space.

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+5V TO +24V DC

O1
O2
O3
O4
O5
PWR
GND

I1
I2
I3
I4
I5
12V DC
GND

Ground/GND

EXTERNAL ALARM SOURCE POWERING THE IO MODULE

SWITCH IN EXT-PWR POSITION

WIRING WITHOUT EXTERNAL POWER SUPPLY

+5V TO +24V DC

O1
O2
O3
O4
O5
PWR
GND

I1
I2
I3
I4
I5
12V DC
GND

Ground/GND

EXTERNAL ALARM SOURCE NOT POWERING THE IO MODULE

SWITCH IN BATTERY POSITION

When PWR and 12V DC is NOT connected, all input signals (I1 to I5) are galvanic isolated from the circuit on the IO Module.

GET in touch!

ZONITH

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