

## Description

The DCT10 supports two inputs simultaneously (reed switch and universal transmitter input\*).

The DCT10 transmits two different serial numbers (SN), one for each input, which are always SN and SN+1 (e.g. 240 000 & 240 001).

A switch or other security device can be connected to the universal transmitter input terminals to provide wireless transmission of the device's open/closed status.

## Features

- 2-zone capabilities where each zone is independent and has its own serial number: Zone 1 - one of two high-sensitivity reed switches (magnet included), Zone 2 - universal transmitter input\* (N.O./N.C.)
- Wireless range in a typical residential environment: 70m (230ft) with MG5000, MG5050 and RTX3
- Low battery and signal transmission LED (Optional for EN 50131 Grade 2)
- Available in 433MHz or 868MHz
- Dual anti-tamper switch
- Dimensions: 12.4cm x 4.5cm x 3.3cm (4.9in x 1.8in x 1.3in)

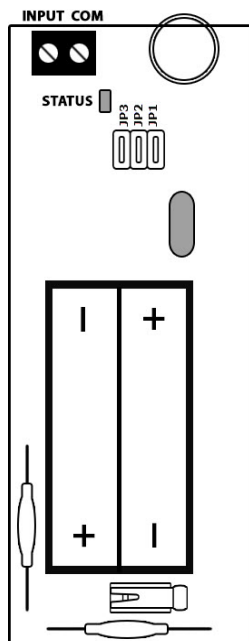
## Location & Mounting

There should be at least 30cm (1ft) between each transmitter and 1.5m (5ft) between the transmitters and the receiver. The transmitter comes with two reed switches allowing you to place the transmitter either vertically or horizontally. Simply place the magnet in line with the reed switch you wish to use.

## Testing the Unit

- 1) Perform a signal strength test before finalizing installation. If the transmission is weak, relocate the transmitter by a few inches to improve reception.
- 2) Verify that the batteries are inserted properly.
- 3) Assign the door contact to a Magellan receiver.
- 4) Open and close the assigned door/window to verify proper operation.

## DCT10 Overview



### Learn Mode

Learn Mode allows you to transmit the serial numbers of each input. To enter Learn Mode: open the cover and wait until the LED stops flashing.

Input	Serial Number	Visual Confirmation
Input 1 (reed switch): Press the anti-tamper switch once.	SN (e.g. 240 000)	The LED will flash once four times.
Input 2 (universal input): Press the anti-tamper switch twice within one second.	SN+1 (e.g. 240 001)	The LED will flash twice rapidly four times.

Jumpers	Magellan Receiver
<b>JP1</b> ON	Reed Switch open = "zone open" signal Reed Switch closed = "zone closed" signal
OFF	Reed Switch open = "zone closed" signal Reed Switch closed = "zone open" signal
<b>JP2</b> ON	Magellan protocol
OFF	N/A
<b>JP3</b> ON	Universal Input* open = "zone open" signal Universal Input closed = "zone closed" signal
OFF	Universal Input open = "zone closed" signal Universal Input closed = "zone open" signal

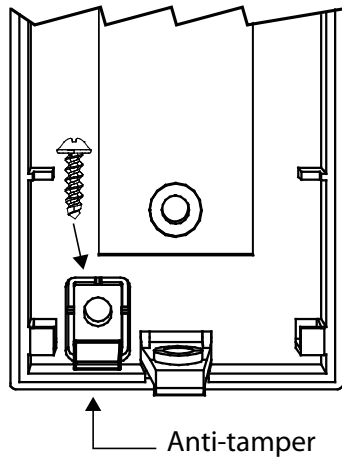
### WARNINGS:

- Do not connect an EOL resistor to the universal transmitter input.
- Do not cut, bend or alter the antenna. Avoid mounting the door contact near or on metal as this may affect transmission.
- After changing the jumper settings, press and hold the anti-tamper switch for two seconds in order to save the changes.

\* **Note:** Cables connected to the Universal input must be less than 3m long.

## Dual Anti-Tamper

The DCT10 offers dual anti-tamper protection against the opening of the unit's cover or the removal of the unit from the mounting location. Secure the anti-tamper pin to the wall using the supplied screw. In the case where the unit is forcibly removed, the anti-tamper pin breaks away from the rest of the unit, triggering a tamper alarm. **If the unit is installed on a drywall surface, use a drywall anchor to secure the anti-tamper pin.**



## Powering the unit

Verify proper polarity and insert two alkaline "AAA" batteries. After inserting batteries, a power up sequence will begin (10-20 seconds) during which the door contact will not detect an open zone or tamper.

## Low Battery

The DCT10 performs a battery test every 12 hours. If the voltage is below 2.3V after four consecutive battery tests (48 hrs.), the red LED will flash at 5 second intervals and the DCT10 will transmit a low battery signal (Optional for EN 50131 Grade 2).

## Battery Replacement

To replace batteries:

- 1) Replace the old batteries with new ones.
- 2) Press and release the anti-tamper switch several times.
- 3) Wait 60 seconds to re-initialize the unit.

## Technical Specifications

Reed switch w/magnet	Two (high sensitivity) with a standard gap of 1cm (0.4") from magnet
Input Response Time	45 ms
RF frequency	433MHz or 868MHz
Power	3 Vdc (Two "AAA" Alkaline batteries)
Battery life	Up to three years
Range (typical in a residential environment)	MG5000/MG5050/RTX3: 70m (230ft)
Current Consumption	2.5µA @ Standby. 0.87mA @ Alarm
Removal Distance	30mm
Approach Distance	10mm
Anti-tamper switch	Dual
Compatibility	Magellan Protocol: MG5000, MG5050, RTX3, and RX1
Dimensions	12.5 x 4.6cm x 2.5 cm (4.9 x 1.8 x 1.0in)
Operating temperature	5°C to 40°C (32°F to 120°F)
Certifications	EN 50131-2-6 Grade 2 Class I. Certification body: ANPI ASBL

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