

ITUCH RL



User manual

THANK YOU & CONGRATULATIONS!

Thank you for purchasing the iTuch/RL from VITY Media Bus Control® automation system. The iTuch/RL is a sensitive touch module which allows you to issue commands through several materials and thicknesses up to 40mm. This manual is made to assist you to install and use the iTuch/RL.

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INDEX

1-Presentation	4
2-Installation	4
2.1- Power supply	4
2.2- Relay	5
2.3- Fixing	6
3-Start up and settings	6
3.1- Start up	6
3.2- Settings	7
3.3- Operating modes	8
4-Technical specifications	9
5- Warranty	10

Please read this manual carefully before setting up iTuch/RL.

The manufacturer is not responsible for any damages or injuries caused by the use of this products.

All the information in this manual may be subject to change without prior notice.

1-PRESENTATION


iTuch/RL is a sensitive touch module which allows you to issue commands through several materials and thicknesses up to 40mm.

2-INSTALLATION

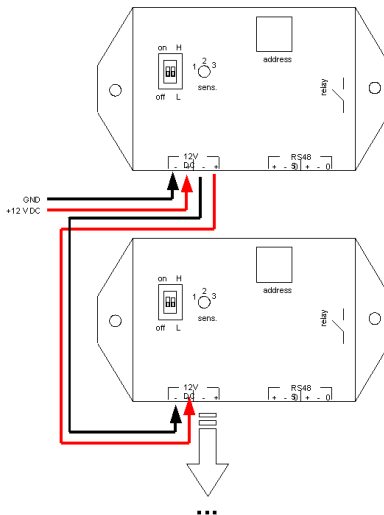
2.1-Power supply

Power supply is 12V DC and must source at least 30mA of DC current for each device. You can use either IN or OUT 12V DC connector. You can use the remaining 12VDC connector to set up a daisy chain with as many devices as you want. Just be sure that your power supply will be sufficient for all the devices of your set.

12V DC connector pinout (reference : MC1,5/2-ST-3,81)

Pin	Signal	
1	GND	
2	+12Vdc	

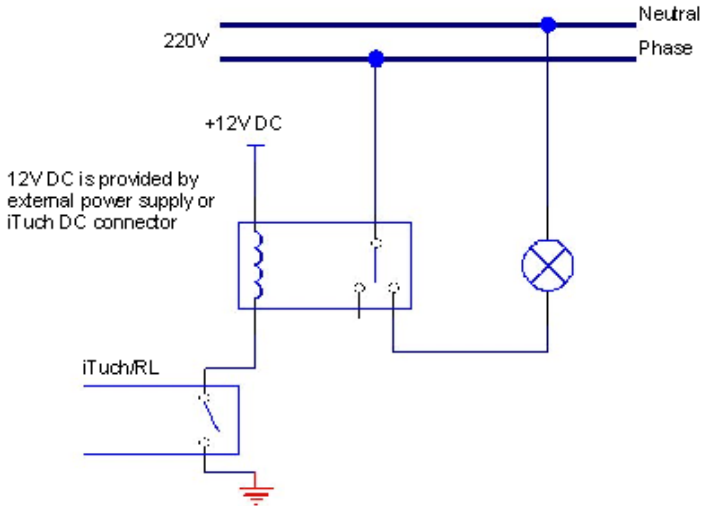
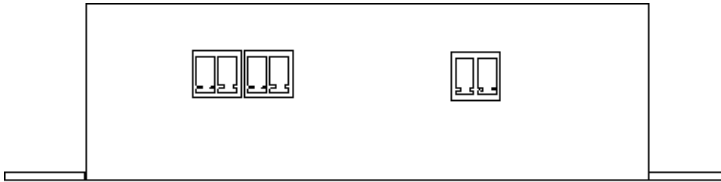
Warning : Do not plug 2 power supplies in both In and OUT 12V DC connectors at the same time.



Note : When using a single device you can use the remaining 12VDC connector to power an external power relay (reference : KRT). Be sure that your power supply is sufficient (12V DC 1A is suitable)

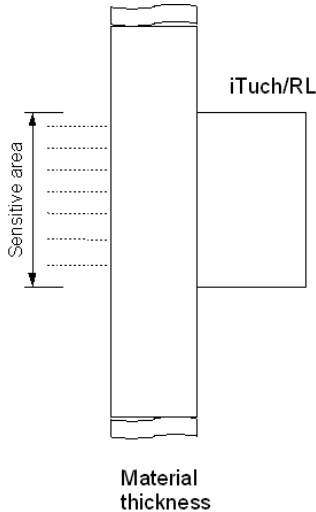
2.2-Relay

iTuch/RL 'internal relay carries voltages up to 60V and 1A of current between both pin of the « Relay » connector. For high voltage operation you must use an external power relay (reference KRT).



2.3-Fixing

You can fix iTuch/RL at the back the detection area (see illustration) using two mounting screws, adhesive or even velcro if the device needs to be removed frequently.

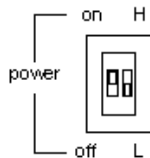


Note : You should mark the detection area with the corresponding action to improve functionality and accuracy.

3-START UP AND SETTINGS

3.1-Start up

To turn the device on use the dip switch labeled « power » on the left. Make sure that the 12VDC connector is plug to a proper power supply (see chapter 2 Installation 1 power supply)



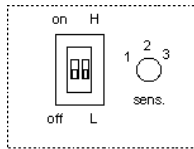
The LED on top of the « power/gain » dip switch indicates when a touch is sensed on the other side of the material. Use this LED when setting up the device.

Warning : when modifying any parameter you must restart the device by switching its power off and on. If not, the changes won't be applied.

3.2-Settings

Ituch is designed for a wide range of materials and thicknesses, that why it comes different types of settings

You can set two different parameters of the sensor : gain and sensitivity



There is two settings for the gain parameter : high (which is labeled 'H' on the iTuch/RL) and low (which is labeled 'L' on the iTuch/RL) and for both 3 different values of sensitivity (from less sensible to more sensible)

Setting the Gain : For thicknesses lower than 10mm you should use the « low » setting, and the « high » setting for thicknesses higher than 20mm, with sens. rotary in intermediate position (2).

Once the gain is selected you can adjust the overall sensitivity by setting sens. rotary to first position (1) if too sensitive and third position for very large thicknesses.

Use sens. rotary in second position to make your settings and adjust if needed.

Note : when you change one these parameters please make sure to turn off and back on the device.

In order to avoid any unwanted change of setting the dials are intentionally unreachable by fingers, so please use a 1x50 flat screwdriver when setting up the device.

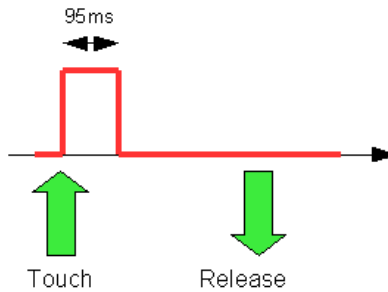
3.3-Operating modes

iTuch/RL has 3 operating modes

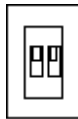
- **PULSE:**



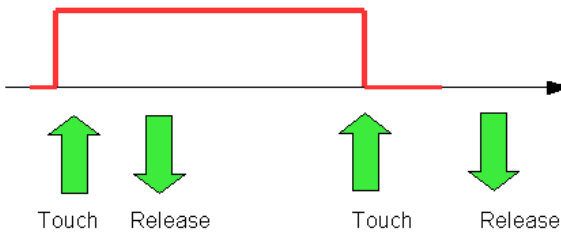
Each touch on the sensitive area will result in an impulsion on the relay's output. The pulse length is fixed to 95ms. This mode doesn't depends on the touch time length.



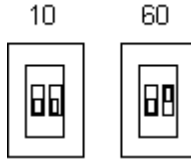
- **TOGGLE:**



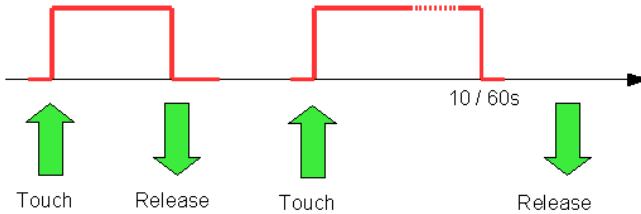
In this mode one touch will close the relay's output , and another touch will open it. This mode doesn't depends on the touch time length.



● **PUSH 10/60s**



In this mode one touch will close the relay's output and will remains in this state until the touch is released. At release the relay's output is open. The maximal touch time length is 10 seconds or 60 seconds depending on the selected PUSH mode. Passed this timeout the output will return in its low state.



4-TECHNICAL SPECIFICATIONS

Sensitive area	50x50mm
Relay	60V 1A
	2 pin on removable phoenix connector
	External power relay needed for high voltages (110/230V) (reference KRT)
Power supply	12V DC 30mA
Consumption	18mA max.
Dimensions	89x63,5x29 mm
Weight	80g

5- WARRANTY

1- VITY Warranty

VITY Technology Headquarters, France and its subsidiaries VITY china, VITY USA, warrant their products any defects in materials and workmanship for a period of 2 years from the date of the invoice. This warranty concerns products manufactured by VITY Technology. A return material authorization (RMA) must be obtained from VITY before products are returned for service. This authorization can be obtained on the website of vity : www.vity.com and have to be returned by fax to VITY - +33 297 89 20 10. In the case of product is distributed by Vity Technology, the applicable warranty is the warranty of the manufacturer and can be less or more than 2 years. This warranty will be specified on the invoice.

Warranty of iTuchRL: 2 years

2- What This Warranty Does Not Cover

This warranty does not apply to (a) any VITY product that has been modified, altered or repaired by an unauthorized agent or improperly transported, stored, installed, used, or maintained; (b) damage caused by acts of nature, including flood, erosion, or earthquake; (c) damage caused by a sustained low or high voltage situation or by a low or high voltage disturbance, including brownouts, sags, spikes, or power outages; or (d) damage caused by war, vandalism, theft, depletion, or obsolescence.

3- Disclaimer of Other Warranties

The warranties contained in Section 1 are the exclusive warranties given by VITY and supersede any prior, contrary or additional representations, whether oral or written. VITY disclaims and excludes all other warranties – whether express, implied, or statutory.

4- Buyer's Exclusive Remedies for Any Nonconformity

If a VITY product fails to conform to the warranties in Section 1, Buyer must notify VITY within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity, and VITY will repair any nonconforming products or components.

5- Application of the warranty

During the period of warranty, VITY Technology will repair the defective units free. The defective products must be sent to your expenses to the VITY Technology's offices (Caudan). The repaired units will be turned over to our expenses with the recipient. Apart from the period of warranty, VITY Technology will repair the defective units in its offices at Caudan, and the cost of repair will be the responsibility of the customer. In the case of the defected product was bought to a Vity subsidiary or a Vity distributor, you have to return it directly to them.

6- Exclusion of Consequential and Incidental Damages.

Vity shall be not liable under any circumstances for consequential or incidental damages including, but not limited to, labour costs or loss of profits arising in connection with the use of or the inability to use Vity products.

7- Transport Damage

VITY will not be responsible for items damaged during shipment to or from VITY. The shipping carrier is responsible for items damaged during shipment.

8- No Modifications

This warranty may not be modified except in writing by an authorized VITY officer.

9- Other Notice

VITY reserves the right to modify or discontinue designs, specifications, warranties, prices, and policies without prior notice.