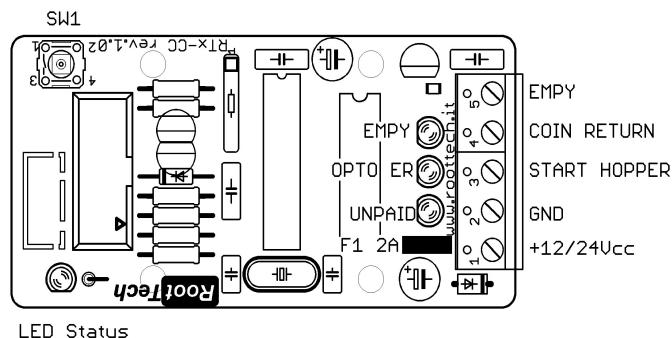# RootTech
Radical Electronics

CONVERTER CCTALK mod.: RTH-CC Fw3.X

User manual.

+12~24V = Power supply dc,max 26VCC
GND = GND
START HOPPER = Start pay ,(active <1) input optocoupler
COIN_RETURN = OUT COIN coin return,active low,
                              open collector 20mS. ON/50mS. OFF
EMPY = Out empy hopper ,active low,open collector
SW1 = Switch pay coin unpaid
Led status = Led status and error Attivo/Busy
Led UNPAID = led ON hopper did not complete paid
Led OPTO = led ON hopper sensor is faulty / obstructed
Led EMPY = led ON hopper empy
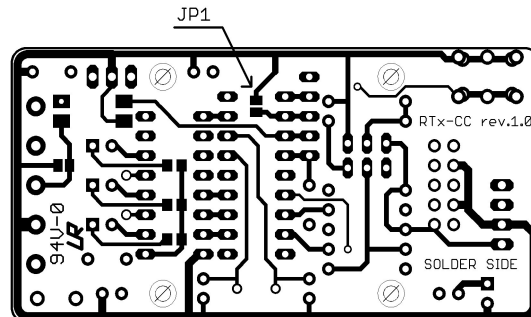**F1** = Fusibile 2A , protect line output

• Commissioning of the RTH-CC

 With the device off, connect the hopper, via a 10-pin IDC connector,
Connect the cctalk converter to the machine as a standard hopper using the signals
START PAY and COIN_RETURN and if necessary EMPY
Power on, from 12 to 24V SEE HOPPER MANUAL,wait for the peripheral to be
recognized, this can be understood from the flashing very fast of the STATUS led,
vice versa the STATUS led will emit a series of flashes in rhythm according to the error
found.

• Full / Empty Hopper management

It is possible to enable or disable the hopper level management by the
 cctalk converter, by means of the soldering bridge JUMPER1

JUMPER1 open = dispensing will start even with coins below the level
  In any case, with partial disbursement the coins not disbursed will come
  stored in memory until shutdown and will be dispensed or when pressed
  button SW1, or will be added to the next dispensing request.
JUMPER1 does not affect the EMPY signal

• Dispensing test (bench)

Connect a button between START PAY and GND
By calling the switch or by impulsing, a delivery will start.
Connecting a mechanical counter to the COIN_RETURN output is possible
see the acquisition of credits by the converter

• Status e errors

By means of the led on the cctalk converter it is possible to check the status of
operation and error conditions

Led status (normal)
the led flashes with every traffic on the bus, when the START PAY input is active
the status led flashes synchronously with the COIN_RETURN output

Led status (error)
2 short flashes + 1 long = CCTALK ERROR - HOPPER ABSENT
3 short flashes + 1 long = OPTO LOCKED

Led OPTO (error)
led ON paid is inhibited as the hopper sensor is faulty or blocked.
The sensor check is carried out only at power up and during
delivery, at no other time is the status of the sensor checked.
Remedy: check for obstruction, clean the sensor, replace the hopper.

Led EMPY (info)
led ON the coins are below the level.
Paid can be blocked or allowed, see "full / empty management".
Remedy: add coins if coins are present check the level sensor.

Led UNPAID (informazione/errore)
lled ON the hopper has not completed paid.
Remedy: add coins or check for obstruction and press
SW1 to complete the paid or wait for the next paid.