

# BILLYONE UN1 Banknote validator (ARM3)

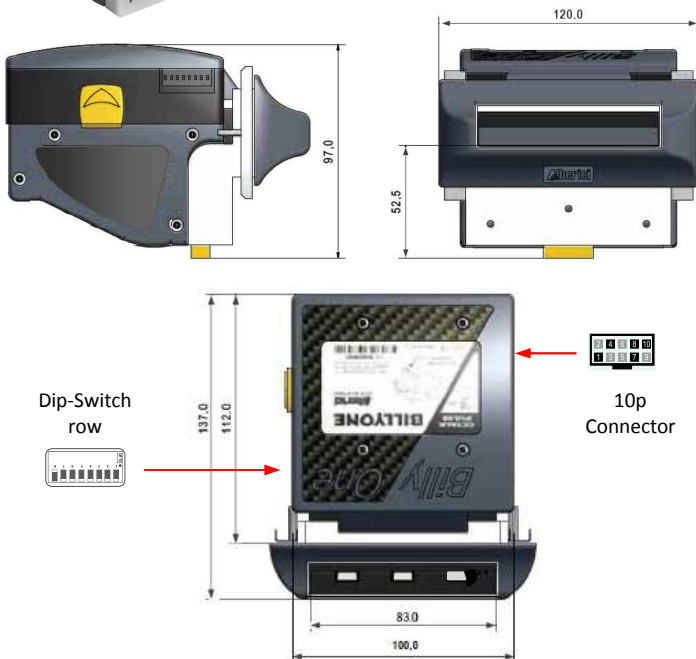
ccTalk-Pulse+USB / MDB

## Quick guide

Rev. 1.02



Alberici takes all possible measures to grant the quality of this product. Improper installation and wrong use can reduce its performance and its working life.



### Technical specs:

#### ALIMENTAZIONE / POWER SUPPLY

12V / 24V | ±5%

#### ASSORBIMENTO / CURRENT DRAW

200 mA (stand-by) | 400 mA (work cycle, max 1 Amp)

#### PROTOCOLLI / INTERFACE

ccTalk / Pulse + USB mini-B / MDB

#### ACCETTAZIONE / ACCEPTANCE RATE

92% = alta sicurezza (anti-falsi) / high security (anti-fake)

98% = sicurezza standard / standard security

#### TECNOLOGIE DI RICONOSCIMENTO / SCAN TECHNOLOGY

Trasparenza e riflessione (sensori IR e sensori cromatici) VHR

VHR transparency and reflection (IR and colour sensors)

#### VELOCITÀ DI VALIDAZIONE / VALIDATION SPEED

2 sec ca. (4 versi) / approx. 2 sec (any of 4 directions)

#### BANCONOTE COMPATIBILI / BANKNOTE SIZE

62 - 82,5 mm (larghezza/width)

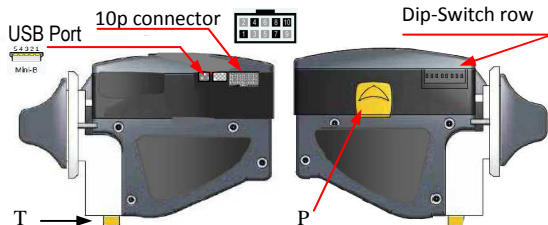
#### TEMPERATURA DI UTILIZZO / OPERATING TEMPERATURE

0°C ÷ 50°C (senza condensa/without condensation)

#### TEMPERATURA DI MAGAZZINO / STORAGE TEMPERATURE

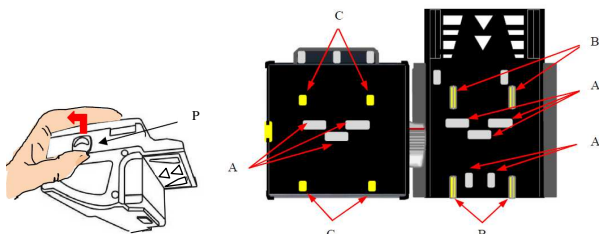
-10°C ÷ 60°C (senza condensa/without condensation)

PESO / WEIGHT 0,565 Kg



Press the yellow button (T) to remove the faceplate.

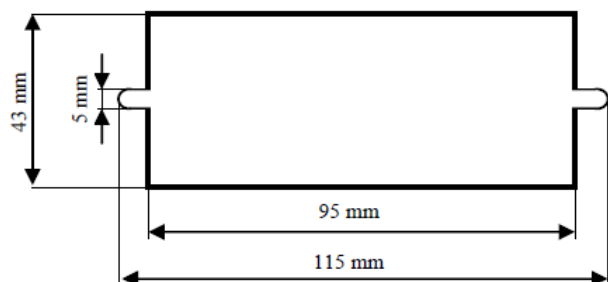
Press the slide-button (P) to open the upper cover.



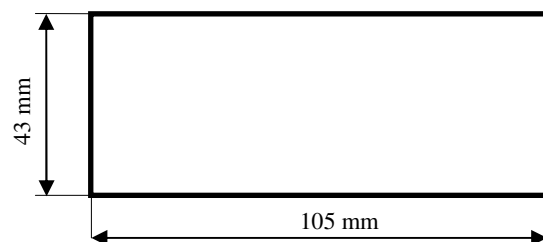
A. Sensors B. Rollers C. Rolls

Wipe the sensor surface off by a lint-free cloth or by a cotton-bud, eventually moistened with isopropyl alcohol to clean parts A, B and C.

### Mounting cut-out (max thickness = 7mm):



Or even a simple square cut will do:



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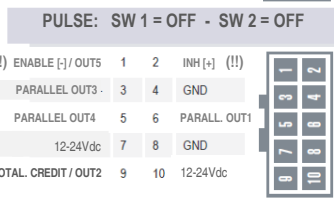
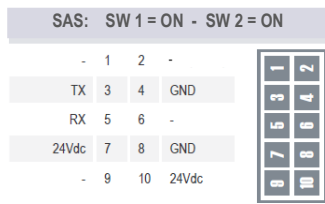
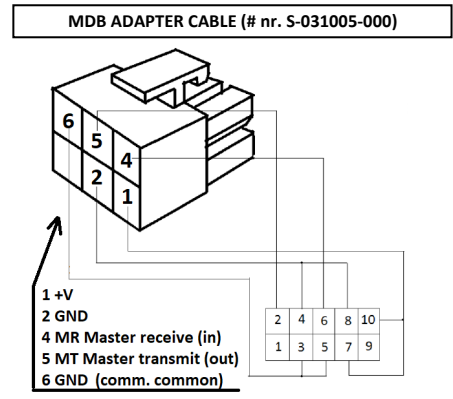
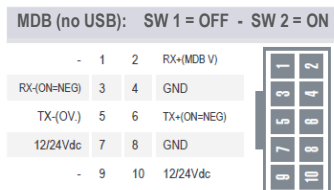
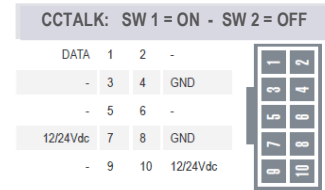


The BillyOne operates by default with 16 bit CRC Checksum. To convert it to simple checksum (8bit), make use of the Alberici Update Software (available on <https://www.alberici.it/eng/products/note-validators/without-stacker/billyone>). Open the Options menu and set checksum as follows:

- 1) **OPTIONS:** choose and open **ADVANCED OPTIONS:** choose "Menu Tool: Enable all tools"  
 2) **TOOLS:** "Set device parameters" .. choose either "simple checksum" or "16-bit crc", then press **OK**

SW N°	DIP-SWITCH FUNCTIONS			
SW 1 e SW 2	SW 1	SW 2	Protocol Interface Mode	
	OFF	OFF		Pulse
	ON	OFF		ccTalk
	OFF	ON		MDB
SW 3	SW 3		Pulse communication modes	
	OFF			Pulse Parallel Outputs (Out 1 = 5€, Out 2 = 10€, Out 3 = 20€, Out 4 = 50€, Out 5 = 100€)
	ON			Pulse Accumulator Output (see SW4 / SW5)
SW 4 e SW 5	SW 4	SW 5	Accumulator value (only for Pulse mode)	
	OFF	OFF		5 Euro = 1 Pulse
	OFF	ON		5 Euro = 5 Pulses (1 Euro = 1 Pulse)
	ON	OFF		10 Euro = 5 Pulses (5 € disabled)
SW 6	SW 6		Acceptance rate / Anti-fake Security level	
	OFF			!!! Acceptance 98% = Standard security level !!!!
	ON			Acceptance 92% = High security level (fake notes mode)
SW 7	SW 7		Pulse length (only for Pulse mode)	
	OFF			100 msec. / 100 msec. (time ON / time OFF)
	ON			200 msec. / 200 msec. (time ON / time OFF) - re-programmable
SW 8	SW 8		Activation of Anti-Fraud signals	
	OFF			Anti-fraud override enabled: first 3 attempts are signaled, + 2 attempts cause 15' inactivity, with yellow flashes (see note ** in Table "AF Modes")
	ON			Anti-fraud override disabled: the note gets rejected with no fraud attempt signals (see note *** in Table "AF Modes")

Please pay attention: after any change in the DS settings, power must be turned off and then on again, so that the validator can detect the set operation mode



(!) PULSE TOTALIZER: if pin1 = GND ---> validator is enabled. If pin1 = floating or +3V+30V ---> validator is disabled.  
 (!! ) PULSE PARALLEL: if pin2 = floating or GND ---> validator is enabled. If pin 2 = +3V+30V ---> validator is disabled.

CCTALK COMMANDS (16-bit Cyclic Redundancy Check)		
<b>CcTalk supported specifications list</b> 1. cctalk Generic Specification Issue 3.2 2. cctalk Expansion for Bill Validators Issue2.1  <b>CcTalk supported commands list</b> <b>1. Core Commands</b> Header 192 - Request build code Header 244 - Request product code Header 245 - Request equipment category id Header 246 - Request manufacturer id Header 254 - Simple poll	<b>2. Core Plus Commands</b> Header 001 - Reset device Header 004 - Request comms revision Header 241 - Request software revision Header 242 - Request serial number  <b>3. Bill Validator Commands</b> Header 145 - Request currency revision Header 152 - Request bill operating mode Header 153 - Modify bill operating mode Header 154 - Route bill	Header 156 - Request country scaling factor Header 157 - Request bill id Header 159 - Read buffered bill events Header 197 - Calculate ROM checksum Header 213 - Request Option flags Header 216 - Request data storage availability Header 227 - Request inhibit status Header 228 - Modify master inhibit status Header 230 - Request inhibit status Header 231 - Modify inhibit status Header 247 - Request variable set

**Luminescent Signals**

nr red flashes	Description
1	Validator is open
2	Jammed banknote
3	Fraud attempted
5	Adjust optics
7	-
9	Low power supply
11	Check encoder+motor efficiency
12	-
14	ROM error

**AF Modes (Anti-fraud)**

(\*) Dip-Switch SW8 ON

After fraud attempts, the validator returns the banknote. No signal given.

(\*\*) Dip-Switch SW8 OFF

Attempt	Validator reaction	Do as described below
1°	Remains in service	-
2°	Remains in service	-
3°	> error (3 red flashes)	Reset (switch off then on)
... 4° ...	> error (3 red flashes)	Reset (switch off then on)

After the 5th fraud attempt (3 yellow flashes), it is necessary to wait for automatic restore of service. Take care not to switch the device off.

**Solid yellow light** Error in ccTalk communication. Check voltage level (12 or 24Vdc). Power the device off and on.