

*If the images are not visible, download the PDF file to your device.

Direct control of the vending machines. Instructions for customers.

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Vendista terminal receives signals from external buttons and directly controls the mechanisms of the vending machine. It is also possible to work as a payment device with Pulse interface.

Available for build version 113, 114, 116 terminals (firmware upgrade required). build version 116 terminal requires a 1, 2, or 3 connection.

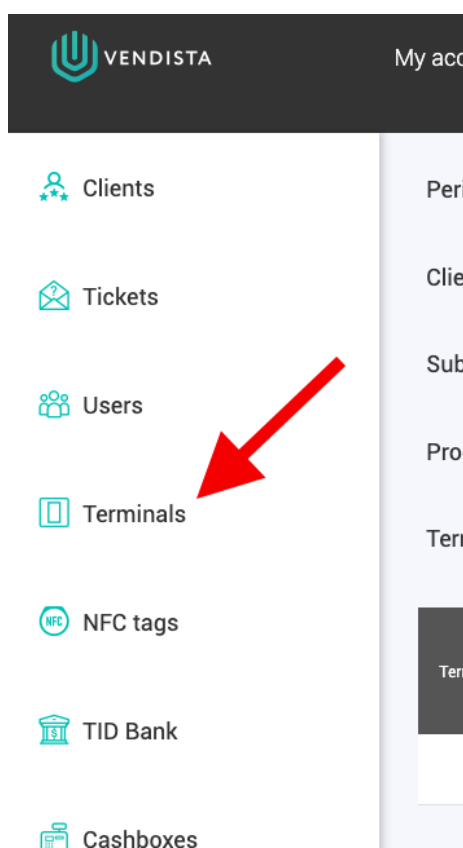
For build version 113, pins 2 and 3 must additionally be connected.

At the same time Vendista will retain full functionality (as if working in MDB): Fiscalization, telemetry, bonuses, payment by QR.

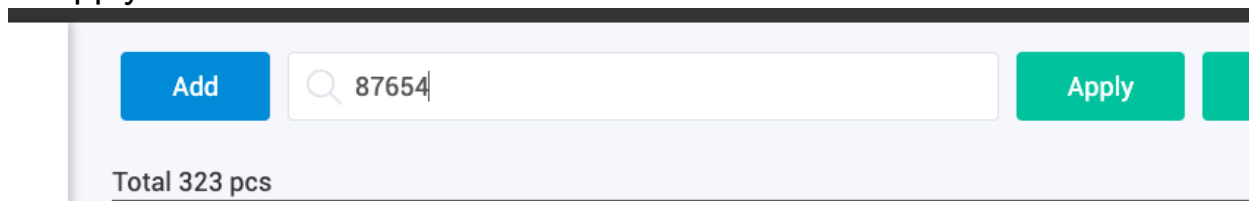
1. Activating Pulse mode

Activation requires:

- go to the "Terminals" section of the portal <https://p.vendista.com>.



- In the menu that opens, enter the terminal number in the search field and click "Apply" button

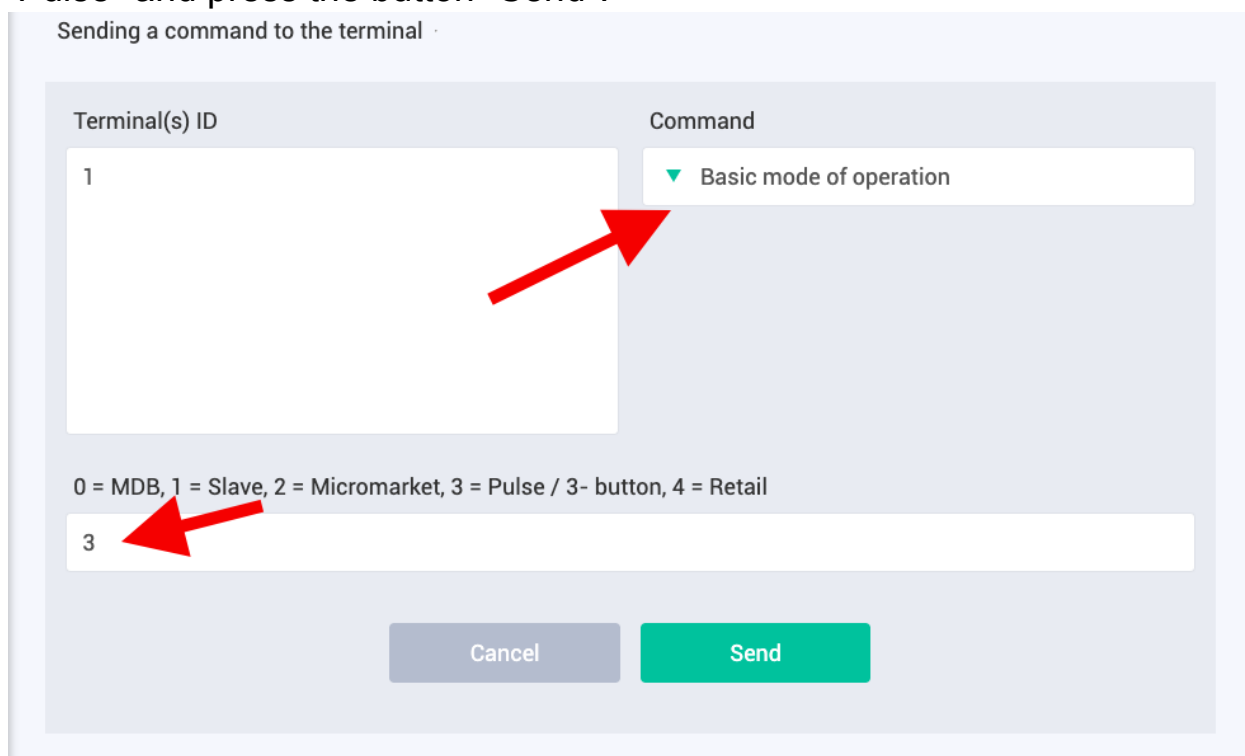


- in the first column "ID" of the opened table find the terminal number you are looking for and click on the "Airplane" icon



ID	TID	Version	Operator	Online per hour/day	Latest online	Division	GSM signal strength	Client	Partner	Send cash sales	Send cashless sales	Comment	Actions
1		86.0	Movistar (0)	0% / 0%	07.02 08:20			McDonald LLC	Partner	☒	☒	alo222	

- in the opened window select the command "Basic mode of operation" and in the appeared line "Parameter" specify "3", which means selecting the mode "Pulse" and press the button "Send".



Sending a command to the terminal

Terminal(s) ID

1

Command

▼ Basic mode of operation

0 = MDB, 1 = Slave, 2 = Micromarket, 3 = Pulse / 3- button, 4 = Retail

3

Cancel

Send

2. Customizing price selection

To customize the price selection, select the "Customize Price Selection and Pulse" command

Отправка команды на терминал

ID Терминала(ов)	Команда
373	Настройки выбора цены и Pulse

Выбор цены (1 = Внешние кнопки, 2 = Кнопки LCD, 3 = Внешние кнопки След./Пред., 4 = LCD След./Пред.)

0

Pulse (0 = нет, 1 = fast speed, 2 = slow speed)

0

Denomination Pulse

0

Назад Отправить

The "Price selection" parameter is configured according to the table below

Выбор цены (1 = Внешние кнопки, 2 = Кнопки LCD, 3 = Внешние кнопки След./Пред., 4 = LCD След./Пред.)

0

2.1. Parameter 1 (Price Selection):

Parameter value	Description
-----------------	-------------

1	Price (and product) selection by external buttons (up to 3)**. Buttons are connected to pins 5, 8, 9. The pins are pulled up to VCC, so when the button is pressed, you need to push them to GND The "Select Product" screen is displayed, an animated finger cycles through as many buttons as the prices are filled** When you click, a payment request is made. In case of successful payment - the level on the corresponding pins 4, 7, 10* is inverted.
2	Select with the buttons on the terminal screen (up to 3)**. If only 1 price is filled in, then the "Tap to pay by card" screen is displayed. When you click, a payment request is made. In case of successful payment - the level on the corresponding pins 4, 7, 10* is inverted.
3	Selection by 2 external buttons Forward / Backward. Prices are sequentially oversubscribed (up to 6)**. The "Attach Card" screen is displayed. NFC field is always active (you can attach the card at any time) In case of successful payment - the level on the corresponding pins 4, 7, 10* is inverted.
4	Select with 2 buttons on the terminal screen: Forward / Backward. Prices are sequentially oversubscribed (up to 6)**. NFC field is always active (you can attach the card at any time) In case of successful payment - the level on the corresponding pins 4, 7, 10* is inverted.
5	Cyclic override by 1st external button (pin 5). Prices are cycled through (up to 6)**. The "Attach Card" screen is displayed. NFC field is always active (you can attach the card at any time) In case of successful payment - the level on the corresponding pins 4, 7, 10* is inverted.
6	Selection by 2 external buttons: - X usd / + X usd. Price increases/decreases by the set value*** The "Attach Card" screen is displayed. NFC field is always active (you can attach the card at any time) On successful payment - the level on pin 4 is inverted

7	Selection by 2 buttons on the terminal screen: - X usd / + X usd. Price increases/decreases by the set value*** NFC field is always active (you can attach the card at any time) On successful payment - the level on pin 4 is inverted
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*The settings of level change on external pins are defined by the command "38. External pin settings" command:

Terminal(s) ID

1

Command

▼ External pin settings (pin 10 on the connector)

Pin value at startup. 0 = Off, 1 = On

0

Trigger. 0 = None, 1 = Vend Request, 2 = Transaction approved, 4 = Goods dispensed, 8 = Coupon inser

0

Pin inversion hold timeout (in seconds). After expiration - the start value will be set

0

Opto-sensor (0 = do not use, 1 = stop pin 10, 2 = stop VendApprove, 3 = stop QR...)

Parameter 1. Pin value at startup. 0 = Off, 1 = On. Immediately after sending the command, the pin value will be set to this value. And it will be the same when the terminal is restarted.

Parameter 2. Trigger. Value = 0. If it is necessary to invert the level on pin 10 upon successful payment, set 2 (Transaction approved).

Parameter 3. Pin inversion holds timeout (in seconds). After expiration - the start value will be set. Accuracy: 10 milliseconds

Parameter 4. Opto-sensor. Value = 0. If it is necessary to reset the signal level on pin 10, set 1 or 5.

If you want to go to the start screen at any time after payment without waiting for the QR check to be shown, set 4.

** Product prices are set with the command "46. Prices for Pulse / 3-button dispenser" command

Sending a command to the terminal

Terminal(s) ID

1

Command

▼ Prices for Pulse / 3-button dispenser

Price 1 (in cents)

0

Price 2 (in cents)

0

Price 3 (in cents)

0

Price 4 (in cents)

0

Price 5 (in cent)

0

Price 6 (in cents)

0

Price 7 (in cents). Update the firmware to 87

0

Price 8 (in cents)

0

Prices for buttons (up to 6) in cents. If = 0, then there is no product for the corresponding button. You can't skip buttons (1000, 2000, 0, 2000, 0, 0, 0 - you can't. 1000, 2000, 2000, 0, 0, 0 - you can).

*** Price change settings are defined by the command "23. Amount settings in increments":

Setting a command to the terminal

Terminal(s) ID	Command
1	▼ Amount settings in increments (Pulse, GiftM...

Starting amount / default amount	Minimum amount	Maximum amount
100	0	0

Amount Step	Title text on the screen
100	for payment

Parameter 1: Starting amount / default amount (in cents)

Parameter 2: Minimum amount (in cents)

Parameter 3: Maximum amount (in pennies). This amount must not be greater than the Maximum Credit (see command 4)

Parameter 4: Amount step (in cents), how much the amount will increase/decrease when "+" "-" is pressed

String parameter. Arbitrary text displayed at the top of the LCD after the "Attach card" caption. For example, "for tip payment". String format: utf8

1.2. Setting up Pulse

In addition to the inversion of external pins, the payment amount can be transmitted via the Pulse protocol.

To do this, in the command "54. Price selection settings and Pulse + DenominationSniff" in Parameter 2 set the value to 1 or 2 depending on the speed of the Pulse bus:

1 = fast speed (50 ms + 50 ms)

2 = slow speed (100 ms + 300 ms)

This will send the payment amount to pin 7 via the Pulse protocol.

Sending a command to the terminal

Terminal(s) ID	Command
1	▼ Price Selection and Pulse settings

Price Selection (1 = External Buttons, 2 = LCD Buttons, 3 = External Next/Ready Buttons, 4 = LCD Next/Ready Buttons).

0

Pulse (0 = none, 1 = fast speed, 2 = slow speed)	Denomination Pulse
0	0

Cancel Send

1.2. Denomination Pulse setting.

The denomination of the amount sent via the Pulse protocol. This is the number by which the amount paid is divided to produce the desired number of pulses output.

For example, the price of 1 pulse in the machine is 10usd. We set Denomination Pulse= 1000 (cents) and when paying 50usd (5000 cents) the terminal will send $5000/1000= 5$ pulses to the machine.

Terminal(s) ID

1

Command

▼ Price Selection and Pulse settings

Price Selection (1 = External Buttons, 2 = LCD Buttons, 3 = External Next/Ready Buttons, 4 = LCD Next/Ready Buttons).

0

Pulse (0 = none, 1 = fast speed, 2 = slow speed)

0

Denomination Pulse

0

Cancel Send

3. Pulse protocol and wiretap settings.

3.1. Setting up Pulse

To customize, select the command "54. Price Selection Settings and Pulse + DenominationSniff".

Terminal(s) ID	Command
1	▼ Price Selection Settings and Pulse + Denomi...

Price Selection (1 = External Buttons, 2 = LCD Buttons, 3 = External Next/Future Buttons, 4 = LCD Next/Future.)

0

Pulse (0 = none, 1 = fast speed, 2 = slow speed) Denomination Pulse

0 0

Denomination Pulse Sniffer Bus 1 Timeout for cash sale registration (sec)

0 15

Denomination Pulse Sniffer Bus 2. Wiring diagram

0 0

Parameters 1 - 3 are configured in the same way as the "Price Selection Settings and Pulse" command.

Parameter 4. Denomination Pulse Sniffer Bus1. Denomination for Pulse Sniffer Bus1 to convert the pulses back to a monetary amount. This amount is fiscalized and the QR of the receipt is displayed on the screen.

For example, listen to a bill acceptor, the price of the 1st pulse of which is equal to 10usd. We set Denomination Pulse Sniffer Bus1= 1000(cents). At reception of 5 impulses the terminal will fiscalize $1000 \times 5 = 5000\text{cents} = 50\text{usd}$.

This will send the payment amount to pin 7 via the Pulse protocol.

3.2. Wiretapping pulse

In Pulse operation mode, pins 6, 8, 9 can be set to listen:

- 6 - When the terminal is connected in scheme 0, 1 and scheme 2 with Den Pulse Snif2 > 0
- 8 - When the terminal is connected according to diagrams 2 and 3.
- 9 - When the terminal is connected according to scheme 0, 1 and scheme 3 with Den Pulse Snif2 > 0

3.3. External pin pull-up

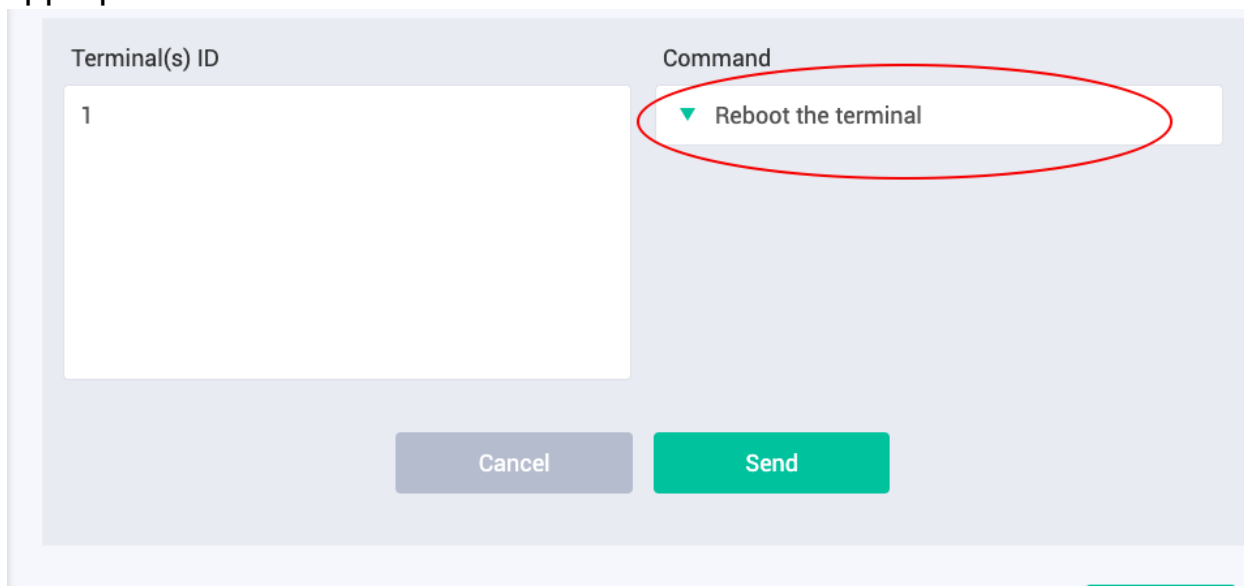
Pin 6 requires an external pull-up resistor to pin 1(+power):

- at supply voltage +12V: 1kOhm
- at +24V supply voltage: 2kOhm (removal of resistor R5 on the Pulse-adapter is required)

Pin 8 requires an external pull-up with a 30kOhm resistor to pin 1 (+power) when connected according to scheme 1 in modes:

- 1 - price selection (and by external buttons) by external buttons (up to 3)
- 3 - Selection by 2 external buttons Forward / Backward.
- 6 - Selection by 2 external buttons: - X usd / + X usd.

After completing the settings - Restart the terminal, to do this, select the appropriate command and click the "Save" button.



The screenshot shows a configuration window with two main sections: "Terminal(s) ID" and "Command".

- The "Terminal(s) ID" section contains a list with the number "1".
- The "Command" section contains a dropdown menu with the option "Reboot the terminal" selected. This option is highlighted with a red oval.
- At the bottom of the window, there are two buttons: "Cancel" (grey) and "Send" (green).

3.4 Inhibit (prohibition of sale if the dispenser is not working / switched off)

To prevent the terminal from accepting payment when the machine is not working (or there is no power supply), you need to send the command

38. External pin settings (pin 10 on the connector).

In the Optosensor parameter set:

7 = Inhibit payment when pin 5 is high (inhibit pulse)

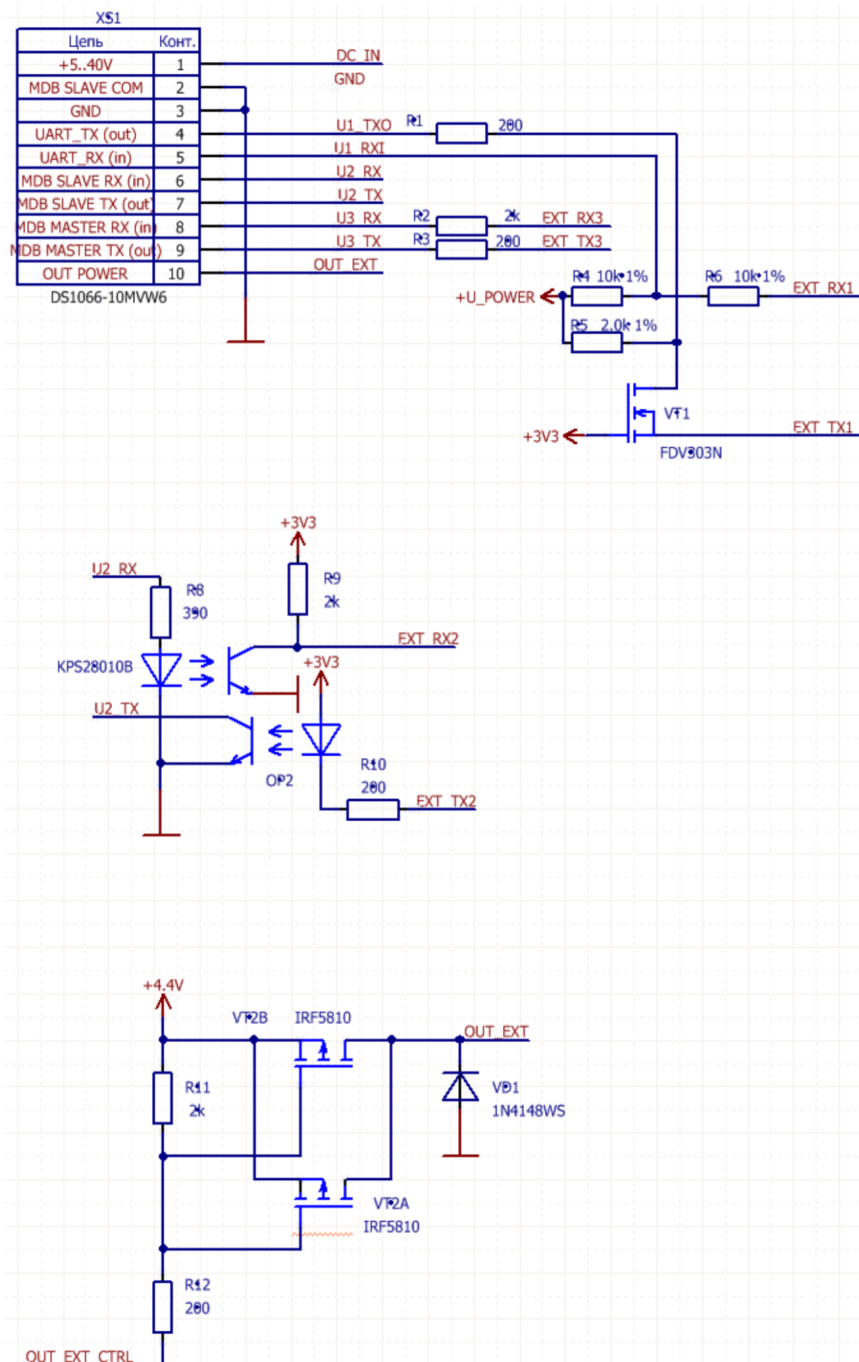
8 = Inhibit payment when pin 5 is low (inhibit pulse)

Leave the rest of the parameters as default.

Connect the inhibit wire to pin 5 of the terminal.

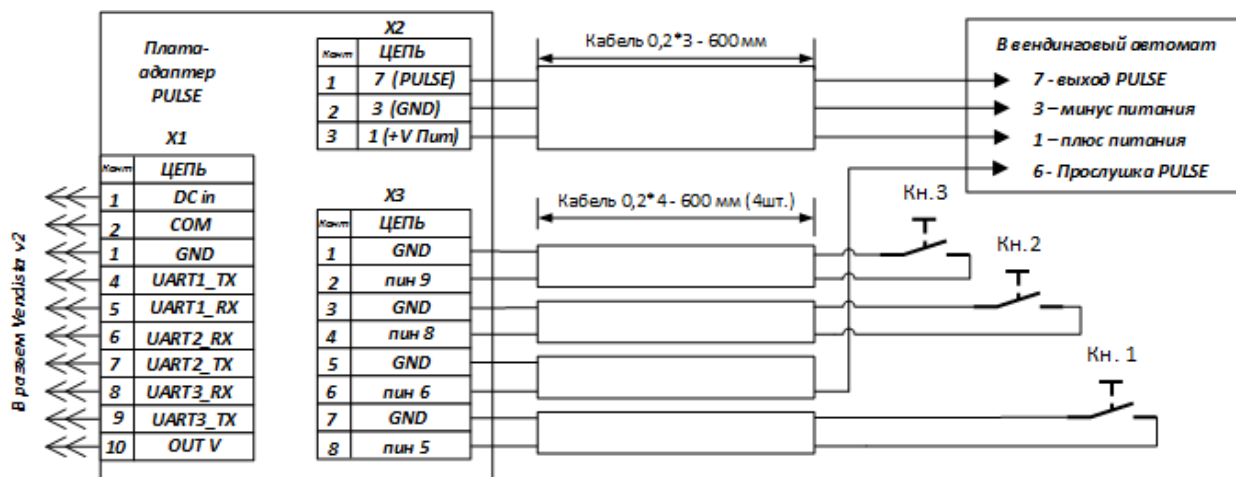
Even if no wire is connected, with these settings the terminal will stop accepting payment in case of external power failure.

3.4. Pin circuitry

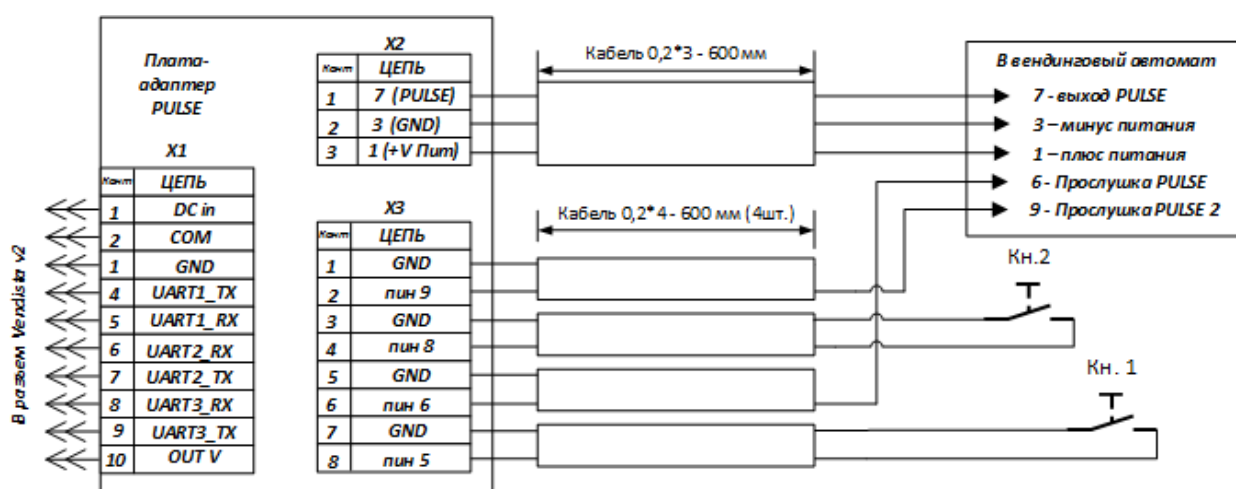


3.5. Wiring diagrams:

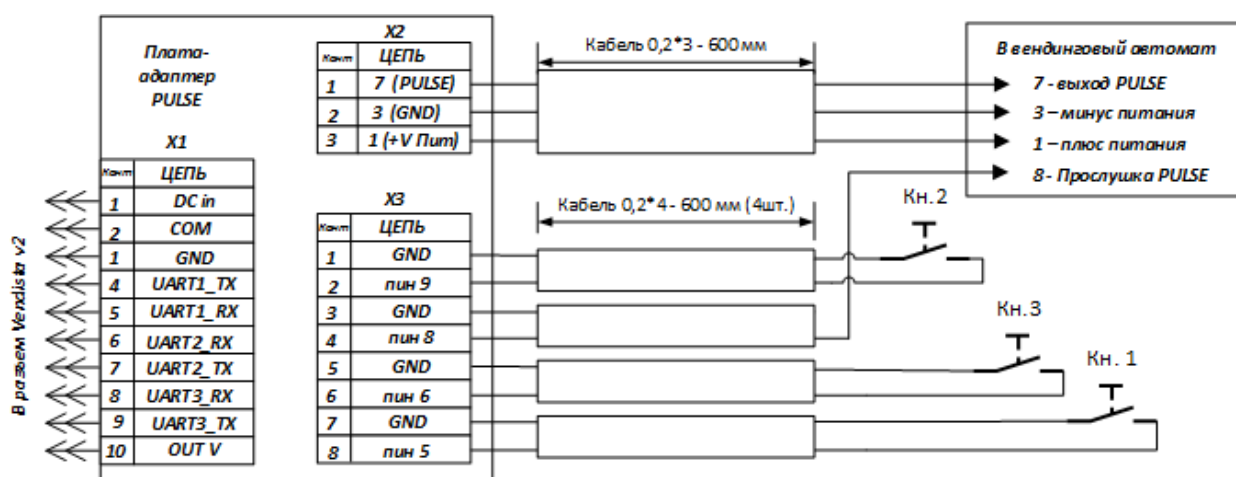
Schemes 0 and 1:



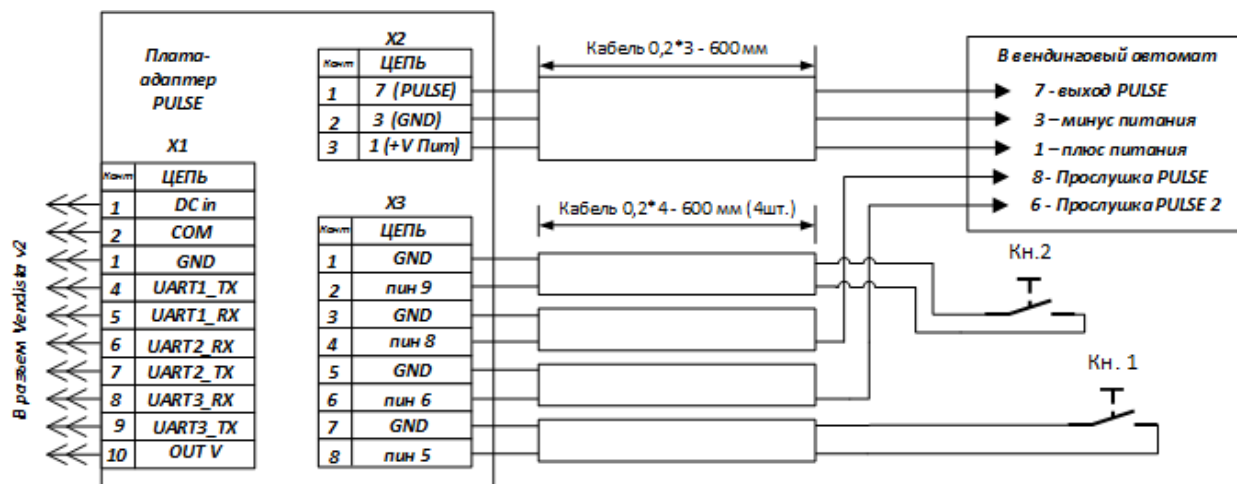
Schemes 0 and 1 with the 2nd wire:



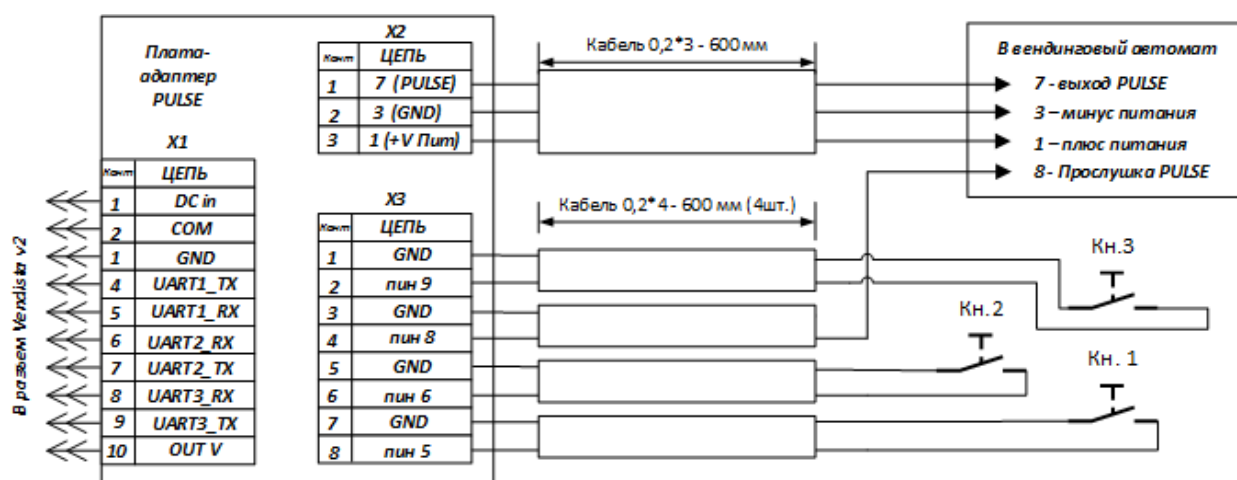
Scheme 2:



Scheme 2 with the 2nd wire:



Scheme 3:



Scheme 3 with the 2nd wire:

