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# FTD-1 Tape applicator

instructions manual

24.Apr.2016

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## Brief description

With the Paperfox FTD-1 Programmable tape applicator you can apply max. 12mm wide double sided adhesive band on paper, cardboard or similar sheet materials. The device uses two Paperfox TD-1 Tape applicator heads from which you can get know more from its instructions manual.

## Parameters

Dimensions without stand:	L=110cm W=100cm H=75cm
Dimensions with stand:	L=110cm W=100cm H=150cm
Weight with stand:	75 kgs
Voltage:	230V 50Hz
Power consumption:	180W
Pneumatic pressure:	8 Bar
Max. sheet width:	700mm
Max tape width:	20mm
Sheet forwarding method:	Conveyor belt (700x700mm)
Speed: (3 gears)	15 / 18 / 25 m/min

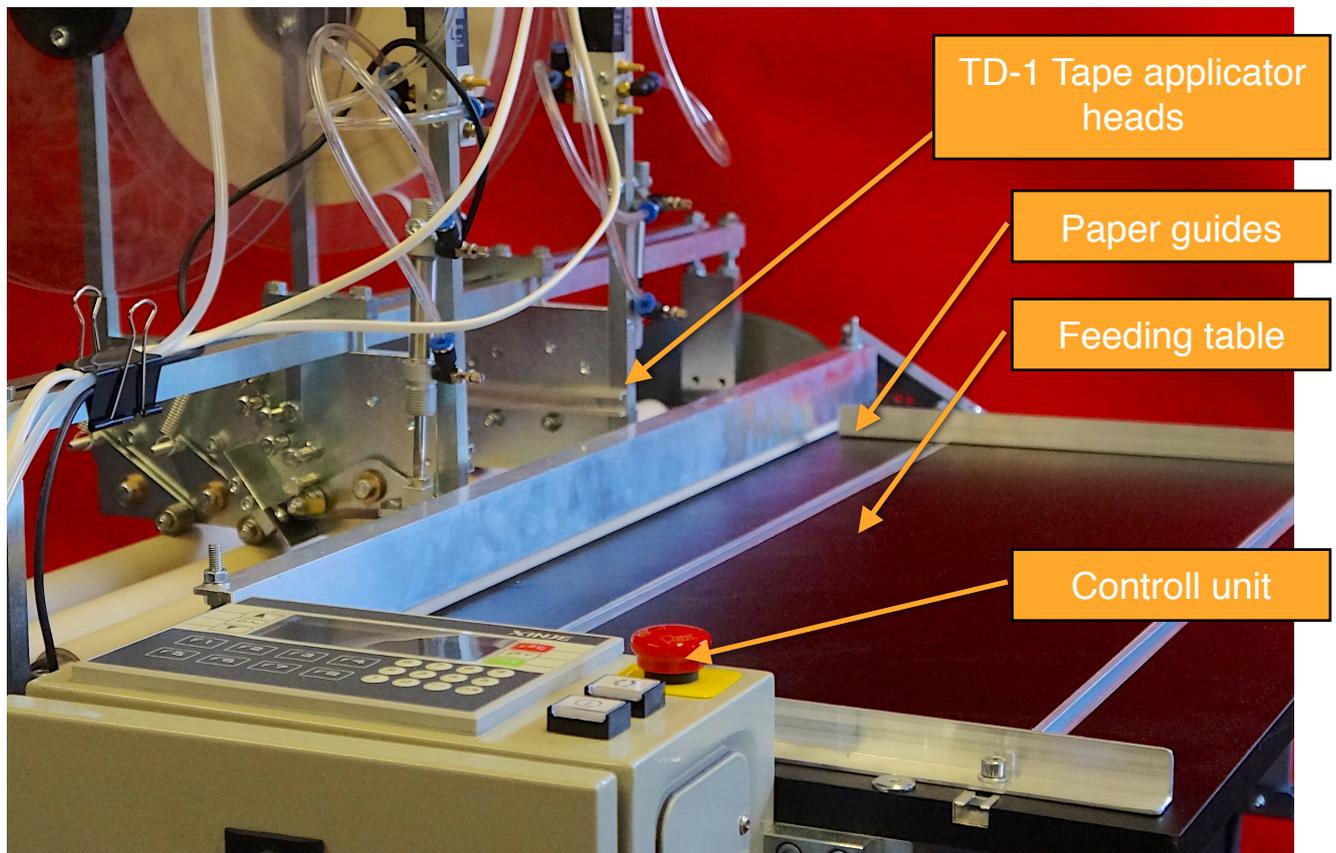
## Safety instructions

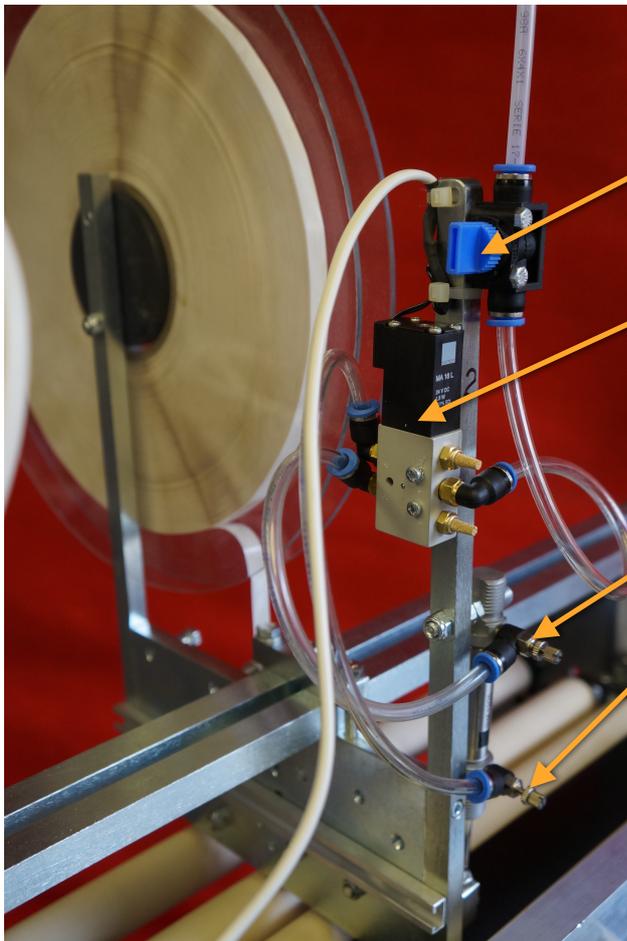
Please read the operating instructions before you use the Paperfox FTD-1 Tape applicator to prevent accidents and ensure the trouble-free operation.

- The Paperfox FTD-1 Tape applicator may not be operated by anyone who does not read or does not fully understand the operating manual.
  - The device may not be used in wet or explosive environment.
  - Always use a proper lighting.
  - To ensure the easy unplugging use a socket in a height 0,6 and 1,9m.
  - Use a proper socket with a safety ground
  - Never change the fuse to any other type as the designated value.
  - Repairs should be carried out by qualified persons using original parts.

## Parts of the Paperfox FTD-1 Tape applicator

The configuration is subject to change. This parts are supplied in standard configuration.





Shut off valve

Electro-  
pneumatic  
valve

Pneumatic flow  
control valves

You can place the sheets on the feeding table and set the paper guides to the proper position. With the shut off valve you can switch off the tape application. This valve should be switched off if you guide the adhesive tape into the TD-1 head. The pneumatic flow control valves are usually fully opened, but you can fine tune the tape application with them. (You can read more about this topic in the TD-1 operational manual.)

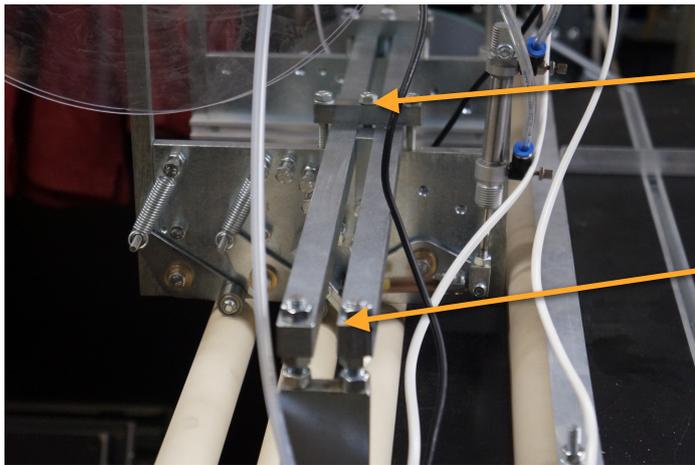
If the safety stop button pressed down you can't operate the device. It can be set into normal operating position by turning the head of the pushbutton a bit clockwise.

With the main switch you can switch on/off the device. The sheet forwarding motor can be switched on/off with the motor on/off switch.

The operating parameters of the device can be set with the programmable controller.

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## Setting the position of the tape applicator heads



Applicator head  
fixing screws

Applicator head  
height adjusting  
screws

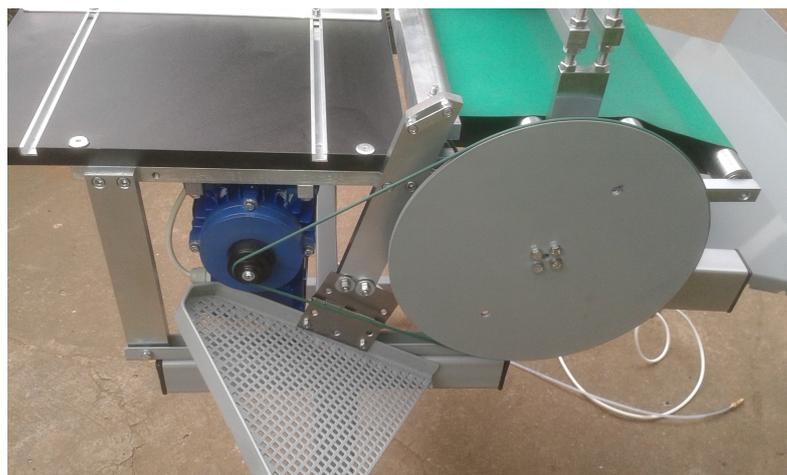
The longitudinal position of the tape application can be set through program but the side position should be set manually.

Loose the applicator head fixing screws and slide the head to a desired position.

Fix the screws.

You can regulate the height of the tape applicator heads with the M8 adjusting screws.

## Adjusting the speed of sheet forwarding



You can set the speed of the sheet forwarding with placing the “O” belt to an other groove of the belt pulley on the motor. Please notice that the position of the placement of the tape depends on the paper forwarding speed so after changing the speed you should adjust this positions again.

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## The programmable controller (PLC)

You can set the position of the tape application and other parameters with the PLC. There are several screens with different function on the display. You can change the active screens with the “up” and “down” arrow buttons on the left side the PLC. The operating instructions and the datas can be set on the function and numeric buttons. After pressing the “SET” button you can write a numeric value into the highlighted data field on the display and you can confirm this data and go to the next data field by pressing the “ENT” button. If you don’t want to go trough all data field you can exit from the setting mode by pressing down the “ESC” button.

### Main screen



After switching on the device the main screen appears on the display.

The displayed value after the label “Length:” is proportional with the length of the sheet which passed through the device. Actually it is the time in milliseconds in which the last sheet passed under the opto sensor. (If the “override enable” function is activated then in this field you can see the override time.)

The displayed value after the label “Counter:” is the number of sheets passed through the device since it was reseted. You can reset this counter with the “F1” function key.

You can switch on/off the sheet forwarding motor not only with the motor on/off switch but also with the “F2” function key when the main screen is on the display.

With the “F8” function key you can simulate the sign of the optosensor for diagnostic purpose.

The lamps at the right side of the display are for diagnostic purposes. (Optosensor, Override time, Head-A and Head-B)

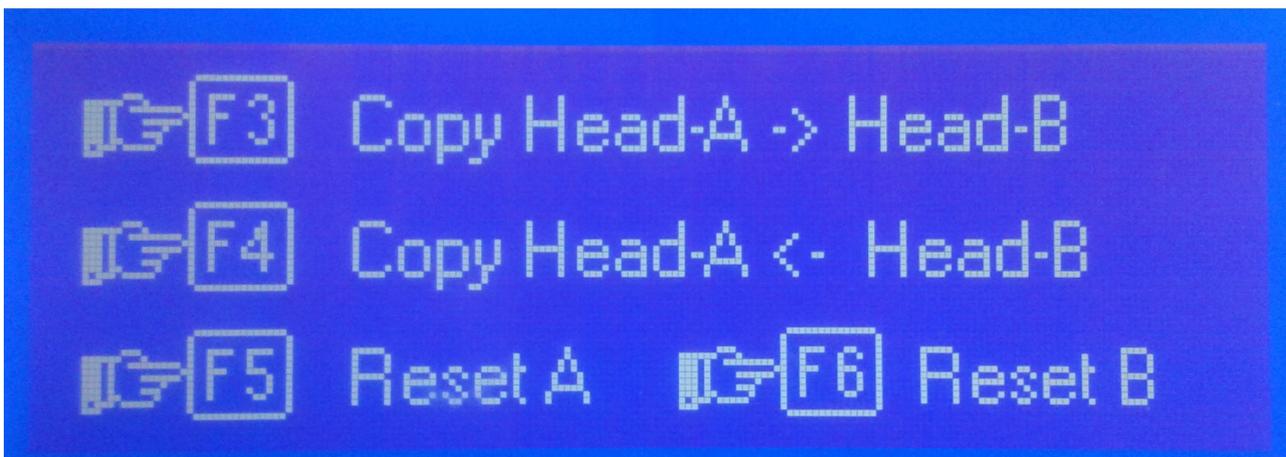
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## Head-A, Head-B screen



There are 8 numeric field on this display. The values are proportional to the positions on the sheet on which the tape applied or ended. (Actually they are delay times from the sign of the optosensor. At this example at position 88 the tape application starts, at 800 ends. Do not write "0" as a starting position because this value means that this position is inactive. To start at the beginning of the sheet write "1" to the first start position. The Head-B screen is very similar.

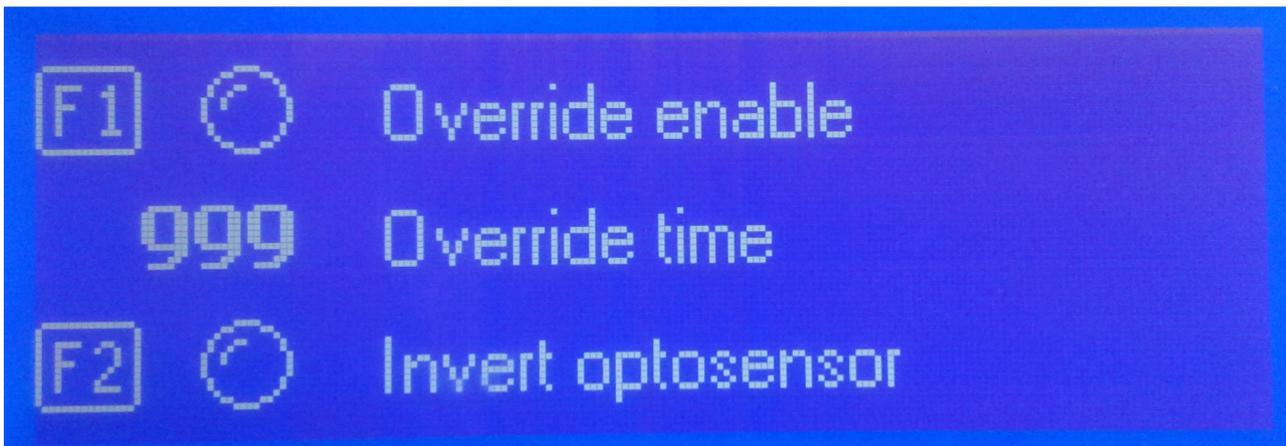
## Copy/Reset screen



You can copy the setting of the head-1 to head-2 by pressing the "F3" and the head-2 to head-1 by "F4". You can reset all values to "0" with the buttons "F5" or "F6".

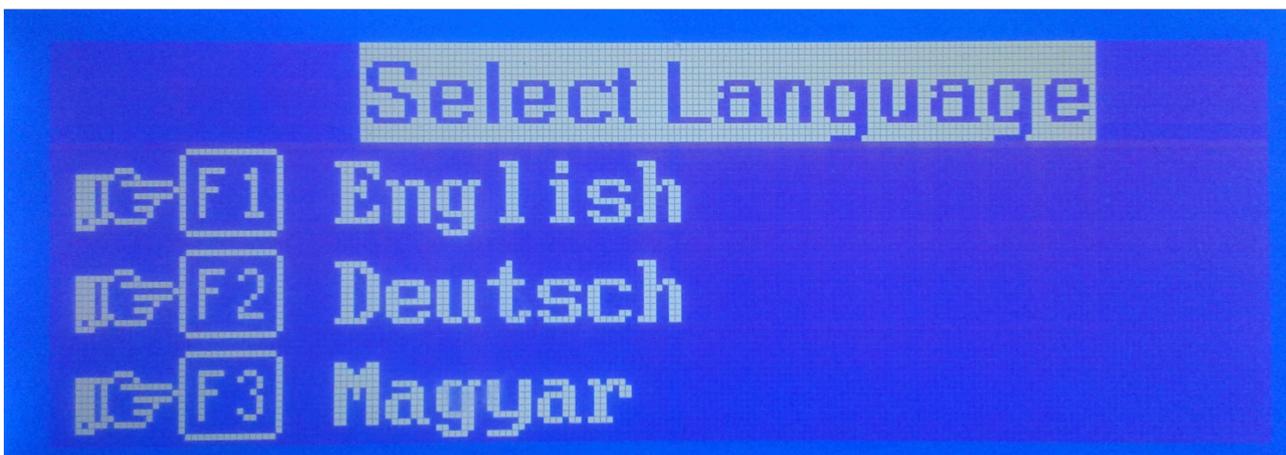
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## Override enable screen



If you want to stick the double sided adhesive tape on a printed sheet (or on a sheet with cut outs) the optosensor can restart the sticking process at the printed element of the sheet. To avoid this effect you can enable the override function with “F1” and set the override time. If this mode active then after the optosensor indicates the first edge the paper, the optosensor is disabled during the override time. The printed elements cant affect the process so the sticking happens independently from the sign of the optosensor. In this case if you put shorter sheets in the device than the last end position of the tape application then the device sticks the adhesive band on the cylinders and it can cause jam. We suggest to set the override time a bit longer than the “length” of the sheet. You can invert the sign of the optosensor by pressing “F2”. This function can be useful if you want to indicate black sheets. In this case you can set the sensitivity of the optosensor with a setting screw on it so that normally should be on and with the black sheet under it should be off.

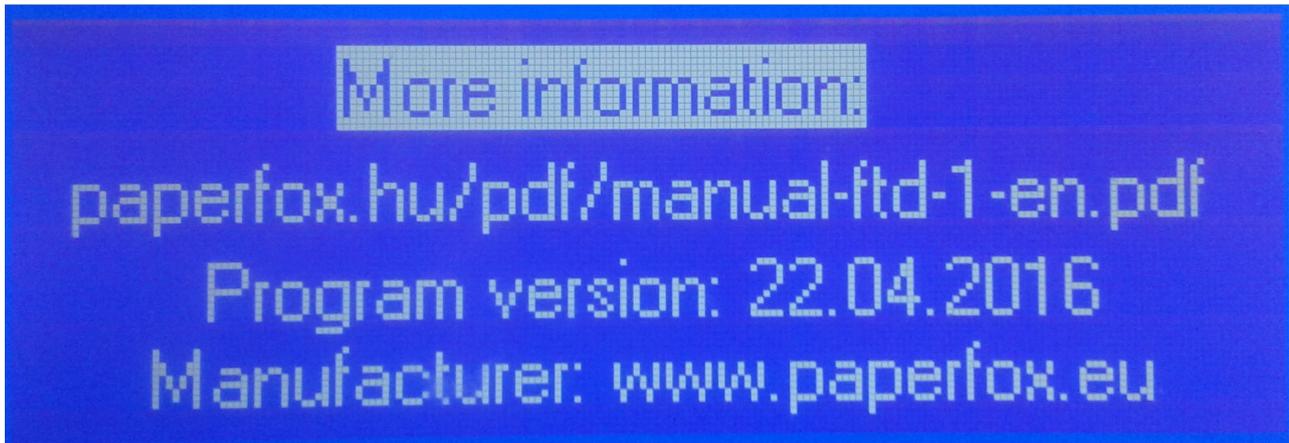
## Select language screen



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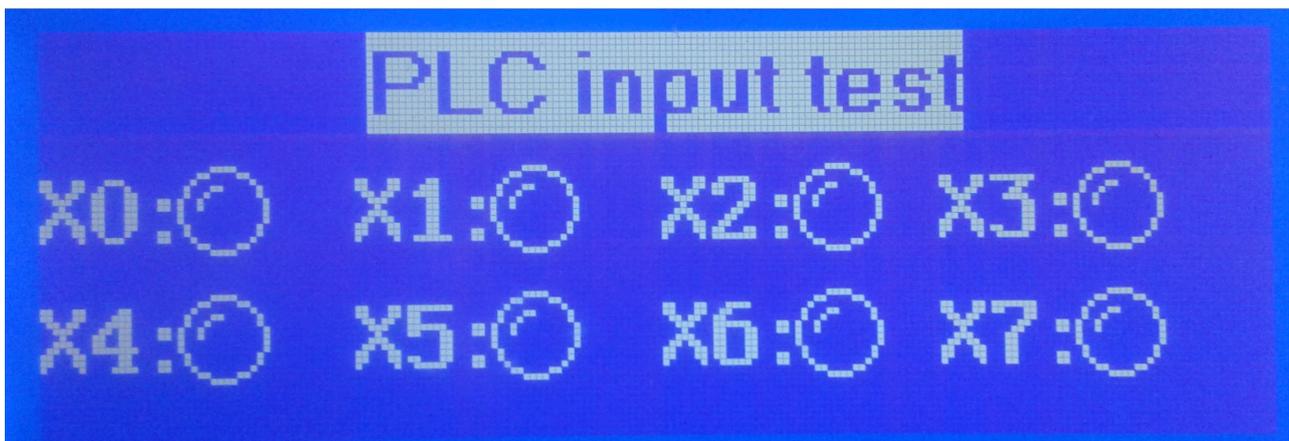
You can select the desired language for operating the device by pressing the F1, F2 or F3 buttons.

### Information screen



There are some useful information about the device at the “More information” screen.

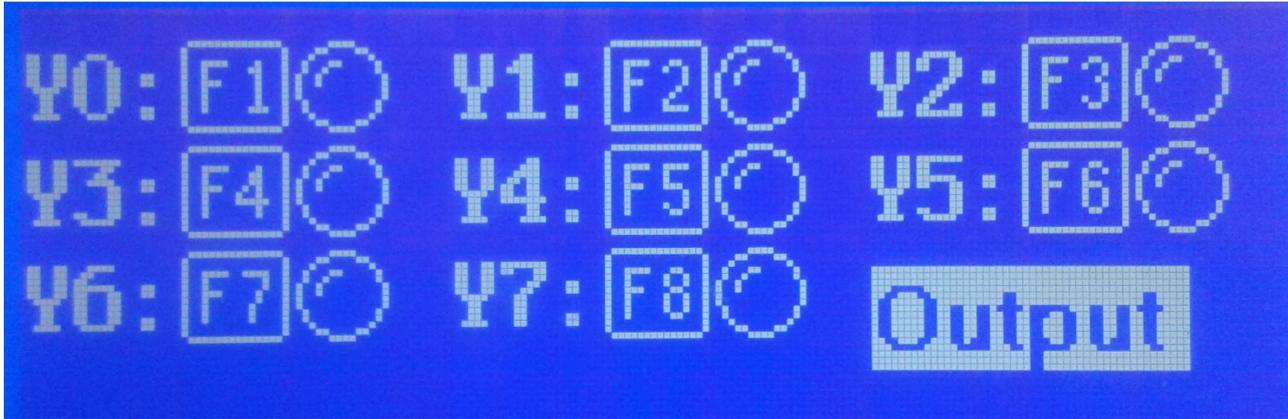
### Input test screen



You can check the inputs of the PLC for diagnostic purpose. The X0 input is the optosensor, the X1 is the motor switch the other inputs are not used.

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## Output test screen



You can set the outputs of the PLC for diagnostic purpose. Y0 and Y1 outputs are driving the pneumatic valves at the head-a and head-b. Y2 drives the lamp at the motor switch. Y4 switches the motor. The other outputs are not used.

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# Declaration of conformity

**Product name:** Paperfox FTD-1 programmable tape applicator

**Manufacturer:** Fürcht Zoltán ev. H-2142 Nagytarcsa Ganz Á. u. 3/7.

## The following standards are applied:

- EN 292-2/ A1 1995, Safety of machinery
- EN 60204-1 , Electronics of machinery
- EN 50082-2:1993 Electromagnetic defense
- EN 50081-2:1993 Electromagnetic compability
- EN 1088 Safety of machinery

Nagytarcsa, 24.04.2016



**Fürcht Zoltán e.v.**

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