



IO32 cards, modules and accessories catalog

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IO32 INPUTS / OUTPUTS CARDS

FD0001 - IO32 PRIMARY CARD



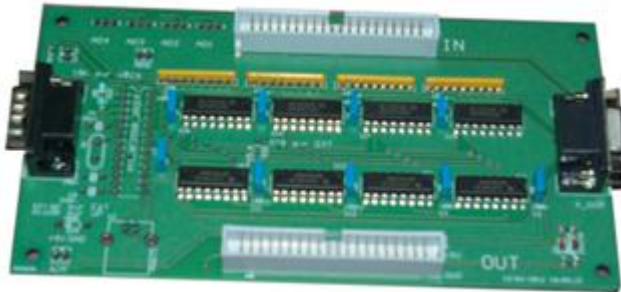
32 inputs with common GND.

32 outputs 5V 15 mA with common GND.

4 analog inputs, one of which can be associated with PWM drive the backlight.

Expandable to 128 inputs and 128 outputs by adding FD0002 expansion card.

FD0002 - IO32 EXPANSION CARD



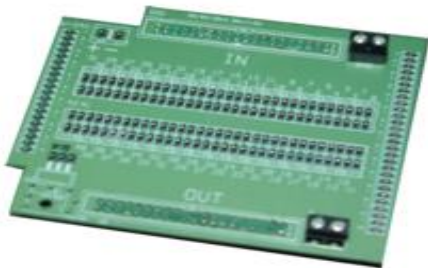
32 inputs with common GND.

32 outputs 5V 15 mA with common GND.

Adds 32 additional inputs and 32 outputs to the FD0001 primary card.

3 expansion cards possible with the primary card, 128 inputs and 128 outputs.

FD0003 - CONNECTION CARD

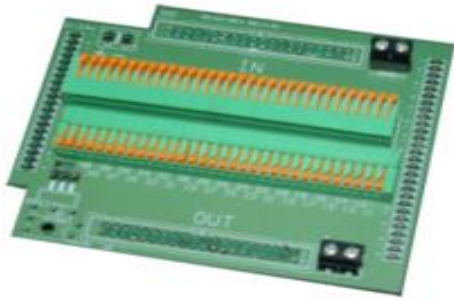


Card equipped with 2 connectors (40-pin female) for the connection on FD0001 primary card or FD0002 expansion card.

Facilitates the wiring (32 inputs and 32 outputs with common ground).



FD0004 - CONNECTION CARD WITH 'FAST' CONNECTORS

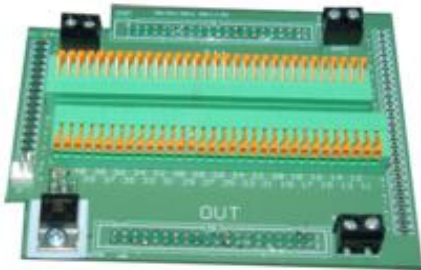


Card equipped with 2 connectors (40-pin female) for the connection on FD0001 primary card or FD0002 expansion card.

Facilitates the wiring (32 inputs and 32 outputs with common GND).

Variant of the FD0003 card equipped with 'fast' connectors with clamps

FD0005 - CONNECTION CARD 'FAST' CONNECTORS + POWER DIMMER



Card equipped with 2 connectors (40-pin female) for the connection on FD0001 primary card only.

Facilitates the wiring (32 inputs and 32 outputs with common GND).

Variant of the FD0004 card: equipped with a power dimmer for the backlight (PWM) :

45W =

- 9A under 5V
- 3A under 12V
- 1,5A under 24V



DISPLAY CARDS

FD0006 - 24 DIGITS, 32 INPUTS CARD



Optional card to be inserted on FD0001 primary card or FD0002 extension card.

- 24 digits 7 segments with common GND (common cathode)
- 4 IDC connectors 14 pins for 5 digits group
- 1 IDC connector 14 pins for 1 4 digits group
- 32 inputs with common GND
- No outputs

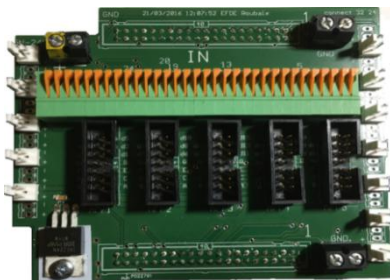
3 cards maximum: FD0001 primary card and 2 FD0002 expansion cards
Capacity of 72 displays in total

FD0007 - 24 DIGITS, 32 INPUTS 'FAST' CONNECTORS CARD



Optional card to be inserted on FD0001 primary card or FD0002 extension card.
variant of the FD0006 card equipped with 'fast' connectors with clamps.

FD0008 - 24 DIGITS, 32 INPUTS 'FAST' CONNECTORS + POWER DIMMER



Optional card to be inserted on FD0001 primary card only.

Variant of the FD0007 card equipped with a power dimmer backlight (PWM).
Same characteristics of the power dimmer for the backlight of the FD0005 card.



ASSEMBLED DIGITS

FD0009 - 5 WHITE DIGITS ON PCB



- Welded displays (5 digits)
- Equipped with a 14 pins IDC connector
- to connect to FD006 or FD007 or FD008 24 digits cards
- PCB dimensions: 51 X 30 X 20

FD0010 - 4 WHITE DIGITS ON PCB



- Welded displays (4 digits)
- Equipped with a 14 pins IDC connector
- to connect to FD006 or FD007 or FD008 24 digits cards
- PCB dimensions: 44 X 30 X 20

FD0011 - 3 WHITE DIGITS ON PCB



- Welded displays (3 digits)
- Equipped with a 14 pins IDC connector
- to connect to FD006 or FD007 or FD008 24 digits cards
- PCB dimensions: 36 X 30 X 20

FD0012 - 2 WHITE DIGITS ON PCB



- Welded displays (2 digits)
- Equipped with a 14 pins IDC connector
- to connect to FD006 or FD007 or FD008 24 digits cards
- PCB dimensions: 28 X 30 X 20



COLOR CONTRAST FILTERS FOR DIGITS

FD0013 – COLOR CONTRAST FILTER: SMOKED	
	color contrast filter: smoked Pre-cut 50X30 or cut to order.
FD0014 – COLOR CONTRAST FILTER: GREEN	
	color contrast filter: green Pre-cut 50X30 or cut to order
FD0015 – COLOR CONTRAST FILTER: ORANGE	
	color contrast filter: orange pre-cut 50X30 or cut to order
FD0016 – COLOR CONTRAST FILTER: BLUE	
	color contrast filter: blue pre-cut 50X30 or cut to order
FD0017 – COLOR CONTRAST FILTER: RED	
	color contrast filter: red pre-cut 50X30 or cut to order



IO32 CARDS CONFIGURATION AND INPUTS / OUTPUTS NUMBERING

This IO32 cards table shows how to configure an IO32 set. To create your composition, it is essential to start your configuration with the FD0001 primary card. You can extend your configuration with up to 3 FD0002 expansion cards. Next come the possible options with the connection cards, power dimmer and display cards. It should be noted that you can put a FD0005 or FD0008 power dimmer card only on the FD0001 primary card.

A set of IO32 cards cannot exceed 4 cards according to the configuration below

IO32 CARDS CONFIGURATIONS		IO32 PRIMARY #1		IO32 EXPANSION #2		IO32 EXPANSION #3		IO32 EXPANSION #4	
REF	DESIGNATION								
FD0001	IO32 PRIMARY	BASE	X						
FD0002	IO32 EXPANSION		X	BASE	X	BASE	X	BASE	X
FD0003	CONNECTION CARD: 32 inputs/32 outputs	OR	X	OR	X	OR	X	OR	X
FD0004	CONNECTION CARD: 32 inputs/32 outputs by 'fast' connectors with clamps	OR	X	OR	X	OR	X	OR	X
FD0005	CONNECTION CARD: variant of FD0004 + power dimmer	OR	X						
FD0006	24 DISPLAYS CARD: 32 outputs	OR	X	OR	X	OR	X		
FD0007	24 DISPLAYS CARD: 32 outputs by 'fast' connectors with clamps	OR	X	OR	X	OR	X		
FD0008	24 DISPLAYS CARD: variant of FD0007 + power dimmer	OR	X						



Below is the table of numbering of the inputs and outputs indicating according to the configuration of the connection cards and displays cards. Depending on your choices regarding the display cards, you will notice that each time a display card is selected, 32 outputs are no longer available and the output numbering and shifted from an IO32 expansion card. It should be noted that you can only put 3 display cards on an IO32 set of 4 cards: # 1, # 2 and # 3).


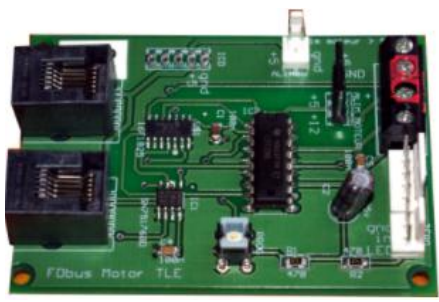

NUMEROTATION	IO32 PRIMARY #1			IO32 EXPANSION #2			IO32 EXPANSION #3			IO32 EXPANSION #4	
	INPUTS	OUTPUTS	DISPLAYS	INPUTS	OUTPUTS	DISPLAYS	INPUTS	OUTPUTS	DISPLAYS	INPUTS	OUTPUTS
Numbering by default	00-31	11-42		32-63	75-106		64-95	139-170		96-127	206-234
Configuration with 1 display card	00-31		00-23	32-63	11-42		64-95	75-106		96-127	139-170
Configuration with 2 display card	00-31		00-23	32-63		24-47	64-95	11-42		96-127	75-106
Configuration with 3 display card	00-31		00-23	32-63		24-47	64-95		48-71	96-127	11-42

FBBUS CARDS & ACCESSORIES FOR ANALOGIC GAUGES


FD0019 – PRIMARY CARD	<p>FDBUS primary card Connection USB between PC FDBUS modules. Jusqu'à 50 modules peuvent être connectés.</p> <p>Delivered with a power cable for the 5V. Provide 5V power supply and type A/B USB cable.</p> <p>Download the Driver Download the notice See the video tutorial</p>
FD0020 – SERVO MODULE	<p>2 servo outputs. 1 all or nothing output 5V 20 mA. 1 PWM output 5V 20 mA</p> <p>Download the notice See the video tutorial</p>
FD0021 – 5V ANALOG MODULE	<p>2 variable outputs: 0-4,5V 10 mA. 2 all or nothing outputs 0-4,5V 10 mA. 1 magnetic sensor input (option FD0030).</p> <p>Download the notice See the video tutorial</p>

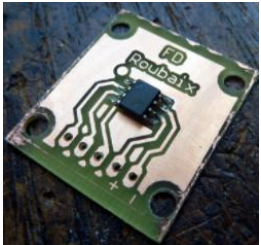


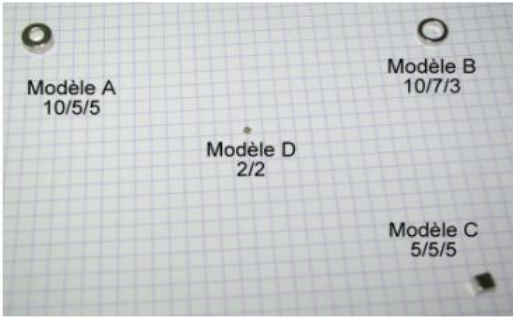
<p>FD0022 – 12V ANALOG MODULE</p>	
	<p>2 variable outputs: 0-11V 10 mA. 2 all or nothing outputs 0-4,5V 10 mA. 1 magnetic sensor input (option FD0030).</p> <p>Download the notice See the video tutorial</p>
<p>FD0023 – BOOSTER ANALOG MODULE</p>	
<p>No picture available</p>	<p>2 variable outputs: 0-11V 2A. 2 all or nothing outputs 0-4,5V 10 mA. 1 magnetic sensor input.</p> <p>Download the notice See the video tutorial</p>
<p>FD0024 - DC MOTOR MODULE/ POTENTIOMETER</p>	
	<p>2 DC motor outputs 5-30V. 2 potentiometer inputs for servo control.</p> <p><u>Choice of the power supply by jumper:</u></p> <ul style="list-style-type: none"> - by the 5V bus for small motors. - By external power supply 5V at 30V 800 mA by motor. - Delivered without potentiometers. <p>Download the notice See the tutorial of installation and configuration See the tutorial 2 speeds setting</p>


<p>FD0025 – DC MOTOR MODULE / MAGNETIC SENSOR</p>	<p>1 DC motor output 5-30V. 1 magnetic sensor input for servo control.</p>
	<p><u>Choice of the power supply by jumper:</u></p> <ul style="list-style-type: none"> - by the 5V bus for small motors. - By external power supply 5V at 30V 800 mA by motor. <p>delivered with magnetic sensor welded on PCB. Delivered without zero crossing sensor.</p> <p>Download the notice See the video tutorial</p>
<p>FD0055 – DC MOTOR MODULE /MAGNETIC SENSOR 65000°</p>	<p>1 DC motor output 5-30V. 1 magnetic sensor input for servo control.</p>
	<p><u>Choice of the power supply by jumper:</u></p> <ul style="list-style-type: none"> - by the 5V bus for small motors. - By external power supply 5V at 30V 800 mA by motor. <p>delivered with magnetic sensor welded on PCB. Delivered without zero crossing sensor. works over a range of 0 to 65000 °</p> <p>Download the Demonstration video</p>
<p>FD0026 - STEP-BY-STEP MOTOR MODULE / ZERO CROSSING SENSOR</p>	<p>1 motor output (4 wires or 6 wires). 2 inputs of zero crossing detector..</p>
	<p>Delivered without zero crossing sensor.</p> <p>Download the notice</p>


<p>FD0027 - STEP-BY-STEP MOTOR MODULE / MAGNETIC SENSOR</p>	<p>No comments.</p>
<p>No picture available</p>	

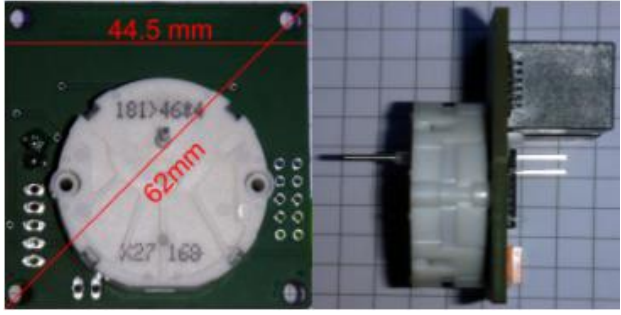

<p>FD0028 – 220V DIMMER MODULE</p>	<p>Used to power a fan. 220V 2000W maxi in output. Vidéo of demonstration</p>
	

<p>FD0029 – ANALOG MAGNETIC SENSOR OPTION</p>	<p>PCB with welded magnetic sensor. Cable and connector analogic FDBUS module.</p>
	

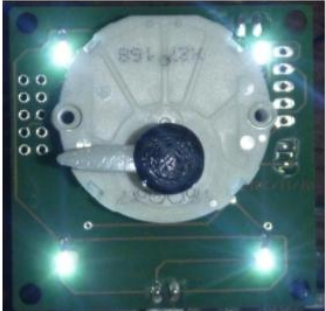
FD0030 - 1 MAGNET FOR MAGNETIC SENSOR	
	<p>Choice:</p> <p>Model A 10/5/5 Model B 10/7/3 Model C 5/5/5 Model D 2/2</p>

FD0051 - X27 MODULE WITHOUT MOTOR	
	<p>FDBUS module delivered without motor.</p> <p>Motor dimension</p> <p>Download the notice Demonstration video</p>

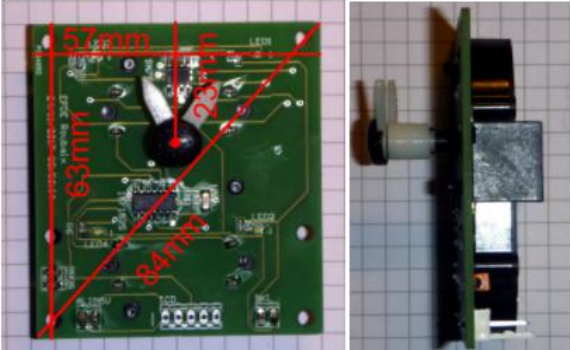
FD0052 - X27 MODULE WITH NO-WELDED MOTOR	
	<p>FDBUS module delivered with no-welded motor. Type X27 motor, angle of rotation 315°.</p>


<p>FD0053 - X27 MODULE WITH WELDED MOTOR AND AXE IN THE CENTER</p>	<p>FDBUS module delivered with welded motor and axis in the center.</p> <p>Type X27 motor, angle of rotation 315°.</p> <p>delivered with a printed ABS needle. Drawing and size to be specified.</p> <p>Motor dimensions</p>
	
<p>FD0054 - X27 FDBUS MODULE WITH WELDED MOTOR AND OFFSET AXE</p>	<p>FDBUS module delivered with welded motor and offset axis.</p> <p>Type X27 motor, angle of rotation 315°.</p>
	
<p>FD0070 - X27 MODULE WITHOUT MOTOR AND WITH BACKLIGHT</p>	<p>Backlight color choice:</p> <ul style="list-style-type: none"> - White cool - Amber - other color: quotation
<p>No picture available</p>	

<p>FD0071 - X27 MODULE WITH NO-WELDED MOTOR AND BACKLIGHT</p>	
<p>No picture available</p>	<p>Backlight color choice:</p> <ul style="list-style-type: none"> - Cold white - Amber - other color: quotation


<p>FD0072 - X27 MODULE WITH WELDED MOTOR AXE IN THE CENTER AND BACKLIGHT</p>	
	<p>Backlight color choice:</p> <ul style="list-style-type: none"> - Cold white - Amber - other color: quotation

<p>FD0073 - X27 MODULE WITH WELDED MOTOR WITH OFFSET AXE AND BACKLIGHT</p>	
<p>No picture available</p>	<p>Backlight color choice:</p> <ul style="list-style-type: none"> - Cold white - Amber - other color: quotation



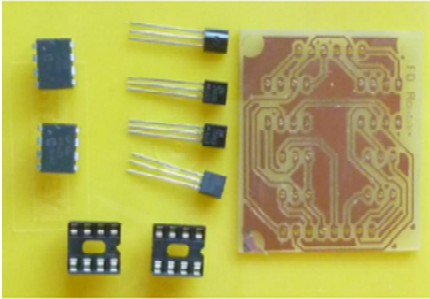
FD0065 – DUAL NEEDLE MODULE	
	<p>FDBUS module delivered with welded motor. Dual type X27 motor, angle of rotation 315°.</p> <p>Dimensions: 64 X 58 mm, thickness without axis: 15 mm.</p> <p>Delivered with 2 needles. Drawing and size to be specified.</p>

FD0066 – DUAL NEEDLE MODULE WITH BACKLIGHT	
	<p>FDBUS module delivered with welded motor. Dual type X27 motor, angle of rotation 315°.</p> <p>Dimensions: 64 X 58 mm, thickness without axis: 15 mm.</p> <p>Delivered with 2 needles. Drawing and size to be specified.</p> <p>4 welded leds, backlight color choice: - Cold white - Amber - other color : quotation</p> <p>Power connectors separate: 5V or 12V. To specify when ordering.</p>



FD0031	6C – Cable, 2 mounted connectors. Length 20cm
FD0032	6C – Cable, 2 mounted connectors. Length 30cm
FD0033	6C – Cable, 2 mounted connectors. Length 50cm
FD0034	6C – Cable, 2 mounted connectors. At the meter
FD0035	BUS termination: is placed on the last module when the length exceeds 1 meter










FD0036 – MAGNETIC SENSOR SUPPORT	
	<p>Is placed on a 37.3mm synchro-transmitter and keeps the sensor PCB in the axe.</p>










CONVERTER OF ENCODER AND OHER ENCODER THAT CTS288

FD0041 - 1 MICROCONTROLLER	 <p>1 microcontroller programmed type S or I. to specify when ordering.</p>
FD0042 - 2 MICROCONTROLLERS	 <p>2 microcontrollers programmed type S ou I to specify when ordering</p>
FD0043 - KIT FOR 2 SIMPLE ENCODERS OR 1 DOUBLE ENCODER	 <p>Kit for 2 simple encoders or 1 double encoder.</p> <p>The kit includes:</p> <ul style="list-style-type: none">- 1 PCB- 2 PCB supports- 4 transistors- 2 microcontrollers programmed type S or I To specify when ordering <p>Download the notice</p>

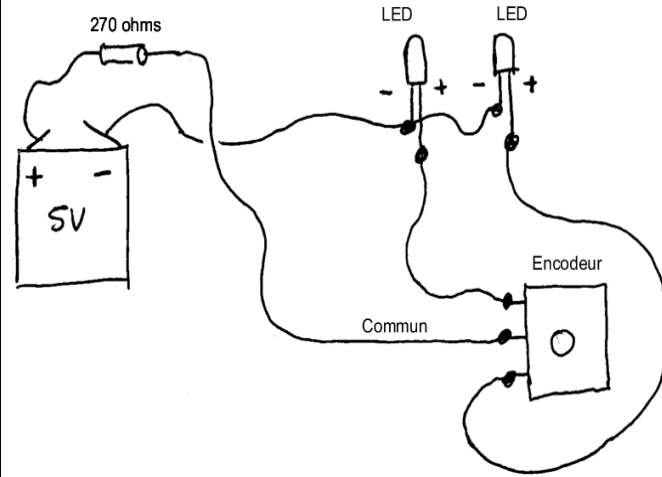


<p>FD288 – SIMPLE ENCODER WITH PUSH BUTTON EXTRA FLAT: 7MM</p>	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Face</p>  </div> <div style="text-align: center;"> <p>Profil</p>  </div> </div>	<p>Delivered with welded components and 1 simple encoder with push button:</p> <ul style="list-style-type: none"> - Without connectors - Without cables - Without bezel <p>Download the documentation</p>

<p>FD0067 - BLACK ABS PRINTED BUTTON WITH PAD ENGRAVED TO PAINT</p>	
	<p>Black ABS printed button :</p> <ul style="list-style-type: none"> - Pad engraved to paint <p>Pattern to define when ordering:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  A </div> <div style="text-align: center;">  B </div> <div style="text-align: center;">  C </div> <div style="text-align: center;">  D </div> <div style="text-align: center;">  E </div> <div style="text-align: center;">  F </div> <div style="text-align: center;">  G </div> <div style="text-align: center;">  H </div> </div>

<p>DF0068 - BLACK ABS PRINTED BUTTON WITH PAD ENGRAVED AND PAINTED</p>	
	<p>Black ABS printed button:</p> <ul style="list-style-type: none"> - Pad engraved and painted <p>Pattern to define when ordering:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  A </div> <div style="text-align: center;">  B </div> <div style="text-align: center;">  C </div> <div style="text-align: center;">  D </div> <div style="text-align: center;">  E </div> <div style="text-align: center;">  F </div> <div style="text-align: center;">  G </div> <div style="text-align: center;">  H </div> </div>

Definition of the type of encoder



According to the diagram opposite, make the assembly to define the type of encoder.

Click on the link below: if the encoder reacts as on the video, order the type S.

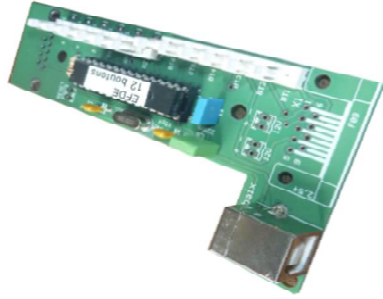
[Demonstration video](#)



JOYSTICK CARDS

FD0039 - JOYSTICK CARD 6 AXIS	<p>joystick CARD:</p> <ul style="list-style-type: none">- type B for USB- 6 axes- 6 buttons
FD0040 – SPECIAL RUDDER JOYSTICK CARD	<p>joystick card intended to receive:</p> <ul style="list-style-type: none">- 1 potentiometer for yaw axe- 4 potentiometers of brake <p>The card groups the 4 brake axes in 2 axes. This is the side who press the strongest who wins.</p> <p>The PC will only see 3 axes instead of 5:</p> <ul style="list-style-type: none">- 1 axe for the yaw- 2 axes for the brakes <p>Notice Settings Demonstration</p>
FD0058 - JOYSTICK CARD 6 AXIS + 8 ANGLES OF VISION (CHINESE HAT)	<p>Joystick card:</p> <ul style="list-style-type: none">- Type B for USB- 6 axes- 4 entries for 'control point of view' button- 2 buttons

FD0063 – JOYSTICK CARD 12 BUTTONS



Joystick card:

- Type B for USB
- 12 buttons



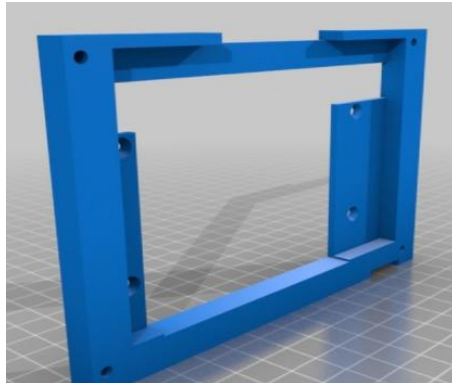
FD0056 – COLOR LCD SCREEN 5’’



Below the link for an example of tutorial:

[Tutorial](#)




FD0057 – SCREEN SUPPORT AND VGA SOCKET






No comments.





ACCESSORIES

FD0044 - 3 CONTACTS FEMALE CONNECTOR	 <p>3 contacts female connector with locking. Sale at unit</p>
FD0045 - 2 CONTACTS FEMALE CONNECTOR	 <p>2 contacts female connector with locking. Sale at unit</p>
FD0046 - CONTACT FOR FEMALE CONNECTOR	 <p>Contact for female connector FD0044 or FD0045 Sale at unit</p>



<p>FD0047 – INVERTER ON/OFF WITH LOCKING</p>	
	<p>Inverter ON/OFF with locking Sale at unit</p>
<p>FD0048 – INVERTER ON/OFF WITHOUT LOCKING</p>	
	<p>Inverter ON/OFF without locking (momentary) Sale at unit</p>
<p>FD0049 – 6c CABLE</p>	
	<p>6C cable for connector 6C FD0050 Sale at meter</p>

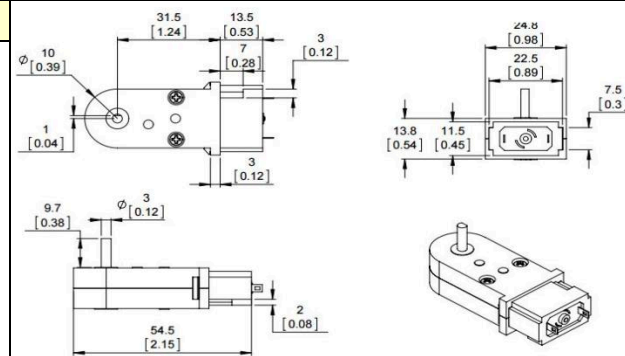
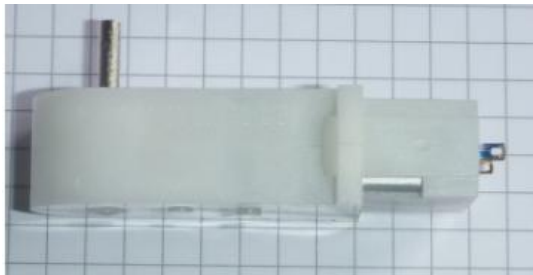
FD0050 - 6C CONNECTOR	
	<p>6C connector Sale at unit</p>
FD0059 - 8 POSITIONS JOYSTICK (ANGLE OF VISION)	
	<p>Joystick to use with FD0058 card Sale at unit</p>
FD0018 - CABLE ALIMENTATION 5V MONTE 1M	
<p>No picture available</p>	<p>5V power cable mounted length 1 meter Sale at unit</p>

FD0074 - TYPE A/B USB CABLE

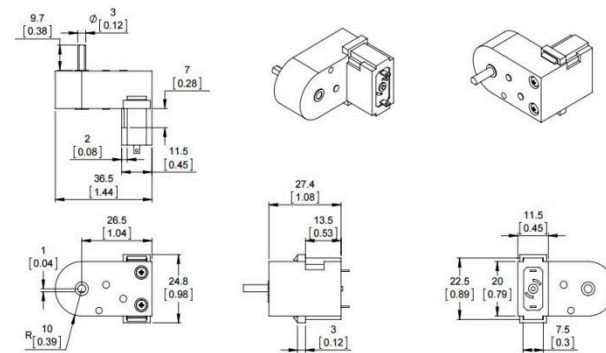


Type A/B USB cable, length 2 meters

FD0075 - DC MOTOR WITH REDUCER 120:1 90°



DF0076 - DC MOTOR WITH REDUCER 120:1 180°



SUNSHINE GENERATOR

FD0037 – SUNSHINE GENERATOR 1 CHANEL



12V DC input

1 12V 3A output

Delivered with 1 photo-resistor 13 X 7 mm

[Documentation](#)

[Demonstration](#)

FD0038 – SUNSHINE GENERATOR 2 CHANELS



12V DC input

1 12V 3A output

Delivered with 2 photo-resistors 13 X 7 mm

[Documentation](#)

[Demonstration](#)



B737 COUNTER TRIP

FD0064 – COUNTER TRIP FOR B737 JOYSTICK






3D printing in black ABS
Delivered: sanding, shiny, mounted and tested
Functional casters without notches
2 possible sizes : 30 et 24 mm

Backlight amber or white
other colors on order:
- Blue
- Green
- Red
- UV

Voltage : 5V or 12V (other voltage on order)



FRONT LIGHT

FRONT LIGHT 1 - Head delivered print gross	<p>it will be necessary to execute:</p> <ul style="list-style-type: none">- Remove print supports- Sand and polish the head- Thread the piece to 6 mm- Pass the cable- Solder the led and mounting- Make a 6mm threaded shaft drilled to 3mm- solder the resistor and to screw on the dashboard the head with a 6mm nut
	
FRONT LIGHT 2 – Head delivered sanded, lustrous, threaded	<p>it will be necessary to execute:</p> <ul style="list-style-type: none">- Pass the cable- Solder the led and mounting- Make a 6mm threaded shaft drilled to 3mm- solder the resistor and to screw on the dashboard the head with a 6mm nut
	
FRONT LIGHT 3 - Head delivered sanded, lustrous, threaded with 1 wire 5cm and 1 resistor for 12V	<p>it will be necessary to execute:</p> <ul style="list-style-type: none">- Make a 6mm threaded shaft drilled to 3mm- solder the resistor and to screw on the dashboard the head with a 6mm nut <p>See led color choice FRONT LIGHT 5 color to specify when ordering</p>
	



FRONT LIGHT 4 - Head delivered sanded, lustrous, threaded with 1 wire 5cm and 1 resistor for 12V and threaded shaft brass, hollow of 6mm + nut

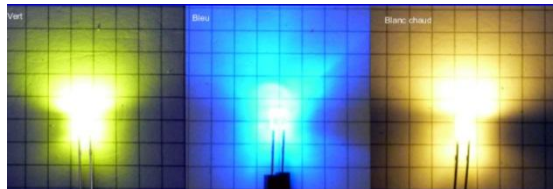


it will be necessary to execute:

- solder the resistor and to screw on the dashboard the head with a 6mm nut

See led color choice FRONT LIGHT 5 color to specify when ordering

FRONT LIGHT 5 – color of led



choice of 3 colors led:

- Green
- blue
- White hot



REFERENCES & PRICES

The prices are indicative and may change without notice. Consult the Fabien website by clicking on [INDEX](#). To prepare a quote, click on [contact and order form](#)

Fabien Deheegher is at your disposal for any useful information.

REF	Descriptive	Unit	Qty	VAT PRICE
FD288	SIMPLE ENCODER WITH PUSH BUTTON (delivered with components)	UN	1	22,00 €
FD0001	IO32 PRIMARY CARD 32 INPUTS / 32 OUTPUTS	UN	1	40,00 €
FD0002	IO32 EXPANSION CARD 32 INPUTS /32 OUTPUTS	UN	1	30,00 €
FD0003	CONNECTION CARD 32 INPUTS / 32 OUTPUTS	UN	1	30,00 €
FD0004	CONNECTION CARD 32 INPUTS / 32 OUTPUTS + clamp connectors	UN	1	65,00 €
FD0005	CONNECTION CARD 32 INPUTS / 32 OUTPUTS + clamp connectors + PWM	UN	1	85,00 €
FD0006	CONNECTION CARD 24 DISPLAYS / 32 INPUTS	UN	1	60,00 €
FD0007	CONNECTION CARD 24 DISPLAYS / 32 INPUTS + clamp connectors	UN	1	75,00 €
FD0008	CONNECTION CARD 24 DISPLAYS /32 INPUTS + clamp connectors + PWM	UN	1	90,00 €
FD0009	5 DIGITS ASSEMBLED ON PCB white color	UN	1	11,50 €
FD0010	4 DIGITS ASSEMBLED ON PCB white color	UN	1	10,50 €
FD0011	3 DIGITS ASSEMBLED ON PCB white color	UN	1	9,50 €
FD0012	2 DIGITS ASSEMBLED ON PCB white color	UN	1	8,50 €
FD0013	CONTRAST FILTER 50 X 30 color: smoke / or cut to order	UN	1	1,00 €
FD0014	CONTRAST FILTER 50 X 30 color: green / or cut to order	UN	1	1,00 €
FD0015	CONTRAST FILTER 50 X 30 color: orange / or cut to order	UN	1	1,00 €
FD0016	CONTRAST FILTER 50 X 30 color : blue / or cut to order	UN	1	1,00 €
FD0017	CONTRAST FILTER 50 X 30 color : red / or cut to order	UN	1	1,00 €
FD0018	5V POWER CABLE LENGTH 1 METER MOUNTED	UN	1	2,00 €
FD0019	FDBUS MAIN CARD for analogic gauges	UN	1	30,00 €
DF0020	SERVO MODULE	UN	1	40,00 €
DF0021	5V ANALOGIC MODULE	UN	1	45,00 €
FD0022	12V ANALOGIC MODULE	UN	1	60,00 €
FD0023	BOOSTER ANALOGIC MODULE	UN	1	70,00 €
FD0024	DC MOTOR MODULE / POTENTIOMETER	UN	1	40,00 €
FD0025	DC MOTOR MODULE / MAGNETIC SENSOR	UN	1	55,00 €
FD0026	STEP BY STEP MOTOR MODULE / ZERO CROSSING SENSOR	UN	1	40,00 €
FD0027	STEP BY STEP MOTOR MODULE / MAGNETIC SENSOR	UN	1	55,00 €
FD0028	220V VARIATOR MODULE	UN	1	80,00 €
FD0029	MAGNETIC SENSOR OPTION FOR ANALOGIC MODULE	UN	1	15,00 €
FD0030	MAGNET FOR MAGNETIC SENSOR	UN	1	2,00 €
FD0031	6C CABLE WITH 2 MOUNTED CONNECTORS, LENGTH 20 CM	UN	1	0,75 €
FD0032	6C CABLE WITH 2 MOUNTED CONNECTORS, LENGTH 30 CM	UN	1	0,80 €
FD0033	6C CABLE WITH 2 MOUNTED CONNECTORS, LENGTH 50 CM	UN	1	0,95 €
FD0034	6C CABLE WITH 2 MOUNTED CONNECTORS, LENGTH BY THE METER	LM	1	1,30 €
FD0035	BUS TERMINATION	UN	1	2,00 €
FD0036	SUPPORT FOR MAGENTIC SENSOR	UN	1	3,00 €
FD0037	SINSHINE GENERATOR 1 CHANEL	UN	1	45,00 €
FD0038	SINSHINE GENERATOR 2 CHANELS	UN	1	50,00 €
FD0039	JOYSTICK CARD, 6 AXES AND 6 BUTTONS	UN	1	30,00 €



FD0040	RUDDER SPECIAL JOYSTICK CARD	UN	1	35,00 €
FD0041	1 MICROCONTROLLER TYPE S OUI / to specify when ordering	UN	1	5,00 €
FD0042	2 MICROCONTROLLERS TYPE S OUI / to specify when ordering	UN	1	7,50 €
FD0043	KIT FOR 2 SIMPLE ENCODERS OR 1 DOUBLE ENCODER	UN	1	20,00 €
FD0044	3 CONTACTS FEMALE CONNECTOR	UN	1	0,30 €
FD0045	2 CONTACTS FEMALE CONNECTOR	UN	1	0,25 €
FD0046	CONTACT FEMALE CONNECTOR FOR FD0044 OR FD0045	UN	1	0,15 €
FD0047	INVERTER ON/OFF WITH LOCKING	UN	1	0,15 €
FD0048	INVERTER ON/OFF WITHOUT LOCKING (MOMENTARY)	UN	1	0,25 €
FD0049	6C CABLE BY THE METER	LM	1	1,00 €
FD0050	6C CONNECTOR	UN	1	0,12 €
FD0051	X27 MODULE WITHOUT MOTOR	UN	1	45,00 €
FD0052	X27 MODULE WITH NO-WELDED MOTOR	UN	1	47,00 €
FD0053	X27 MODULE WITH WELDED MOTOR, AXE IN CENTER	UN	1	47,00 €
FD0054	X27 MODULE WITH WELDED MOTOR, OFFSET AXE	UN	1	47,00 €
FD0055	DC MOTOR MODULE / MAGNETIC SENSOR 65000°	UN	1	55,00 €
FD0056	SCREEN LCD COLOR 5''	UN	1	110,00 €
FD0057	SCREEN SUPPORT AND VGA SOCKET	UN	1	10,00 €
FD0058	JOYSTICK CARD, 6 AXES AND 8 ANGLES OF VISION (Chinese hat)	UN	1	30,00 €
FD0059	JOYSTICK CARD, 8 POSITIONS (ANGLES OF VISION)	UN	1	3,50 €
FD0063	JOYSTICK CARD, 12 BUTTONS	UN	1	32,00 €
FD0064	B737 COUNTER TRIP	UN	1	60,00 €
FD0065	DOUBLE NEEDLES MODULE	UN	1	65,00 €
FD0066	DOUBLE NEEDLES MODULE WITH BACKLIGHT	UN	1	68,00 €
FD0067	PRINTED BUTTON IN BLACK ABS, PAD ENGRAVED TO PAINT	UN	1	2,70 €
FD0068	PRINTED BUTTON IN BLACK ABS, PAD ENGRAVED AND PAINTED	UN	1	3,90 €
FD0070	X27 MODULE WITHOUT MOTOR WITH BACKLIGHT	UN	1	48,00 €
FD0071	X27 MODULE WITH NO-WELDED MOTOR WITH BACKLIGHT	UN	1	50,00 €
FD0072	X27 MODULE WITH WELDED MOTOR, AXE IN CENTER WITH BACKLIGHT	UN	1	50,00 €
FD0073	X27 MODULE WITH WELDED MOTOR, OFFSET AXE WITH BACKLIGHT	UN	1	50,00 €
FD0074	TYPE A/B USB CABLE, LENGTH 2M	UN	1	4,50 €
FD0075	DC MOTOR WITH REDUCER 120:1 90°	UN	1	6,00 €
FD0076	DC MOTOR WITH REDUCER 120:1 180°	UN	1	6,00 €
FR-L1	BACKLIGHT HEAD DELIVERED PRINT GROSS	UN	1	1,00 €
FR-L2	BACKLIGHT HEAD DELIVERED SANDED, LUSTROUS, THEADED	UN	1	5,00 €
FR-L3	BACKLIGHT HEAD DELIVERED SANDED, LUSTROUS, THREADED with 1 led + 1 wire 5cm + 1 resistor for 12V. Choice backlight color: green, blue or white hot	UN	1	5,50 €
FR-L4	BACKLIGHT HEAD DELIVERED SANDED, LUSTROUS, THREADED avec 1 led + 1 wire 5cm + 1 resistor for 12V + threaded shaft brass, hollow of 6mm + nut. Choice backlight color: green, blue or white hot	UN	1	7,50 €



GENERAL CONDITIONS OF SALE AND WARRANTY

Order:

- All order is subject to a quote.

VAT:

- The VAT applicable to the countries of the European community is 20%, French rate in force.

Shipping:

- Metropolitan France: Colissimo (French poste).
- outside metropolitan France: International Colissimo (French post).

Payment:

- Metropolitan France: according to the conditions indicated in the quote.
- outside metropolitan France: payment by paypal in euros including the paypal costs.

Warranty:

- Warranty 2 years, parts and workforce, workshop return, shipping costs extra.

