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1. INTRODUCTION

1.1 General

A Rotaposter consists of a housing with inside two rollers parallel to each other, each driven by an electronically controlled DC motor.

The posters are attached between and to the rollers by means of a leader (the leader is the material permanently connected to the top and bottom roller) after which the control unit is programmed by means of dipo switches or the optional commander, thus setting a certain running and standstill rhythm, posters at the beginning or end can be blocked. Depending on the type and the material used, 1 to 5 or 1 to 8 posters can be displayed.

1.2 Safety

The device is automatically switched off when the door is opened, the main power must be switched off separately if work is carried out on the device. If the window is missing, the device may not run and the main power must be switched off immediately!! The device must always be earthed electrically!! In case of manual operation, precautions must be taken with regard to the rotating drive unit !

2. TECHNICAL SPECIFICATIONS

2.1 General

Specifications of the connection in general:

Electricity:

1 AC 230V/50 Hz. or 115 V/ 60 Hz.

Permitted tolerances on tensions, within which the device works, are plus and minus 10% and permitted tolerances on frequency are plus and minus 4%.

Motors 48 volt 45 Watt

Electronics 48 Volt.

Brakes 24 volt 11 Watt

Encoder 24 volt

If using a generator, a UPS must be used to stabilise the tension and frequency, unless the generator supplies stabilised tension and frequency. Maximum power depends on the type of motor and lighting, see the type plate attached immediately above the electronics inside the housing against the rear wall.

Adjustment time \pm 2.5 seconds, standstill time can be set for 1 to 28 seconds.

2.2 Freestanding base

The Rotaposter case is delivered with a standard base construction, which has to be attached to the attachment points in concrete with 10mm (0,3937 in) round concrete anchors. If a separate concrete foundation is used, it should measure 1250 mm x 1250 mm x 250mm (49,2126 in x 49,2126 in x 9,8425 in) and weigh 980 kg (2.160,53 lbs), based on sandy soil, for other types of soil, the foundation must be calculated. Poster housings $> 2 \text{ m}^2$

(21,53 ft^2) must always be calculated. Assembly must be sufficiently rigid and true to size that after assembly the Rotaposter is completely level both horizontally and vertically. The maximum deviation permitted is 3 mm. The Rotaposter may not be assembled crooked, the maximum deviation here is also 3 mm. If the deviations are greater, the Rotaposter may not be switched on. The total deformation as a result of dynamic loads such as wind may not exceed 10 mm (0,3937 in), assuming a wind speed of 28 metres/second (62.63 miles/hour)

WARNING:

Never weld the base or things that come into contact with the base, when the Rotaposter is assembled. Welding will irrevocably destroy the electronics!!

2.3 Poster specifications:

Poster width *	1187 mm (46,7323 in)
Poster height *	1752 mm (68,9764 in)
Poster weight	150 g/m2 (0.03072242 pound/foot2) when using 5 posters
Poster weight	130 g/m2 (0.0266261 pound/foot2) when using 8 posters
Poster thickness	130μ
Poster stiffness value	2
Poster material	Wood-free offset, litholux or half mat MC
Print	Offset, waterproof, UV ink
Number of posters	5 /150 g/m2 (0.03072242 pound/foot2 or 8 by 130 g/m2(0.0266261 pound/foot2)
Laminated	2 and/or depending on the material thickness

*) See drawing 5 For details .

2.4 WEIGHTS

Double-sided Rotaposter excluding posters approx.	180 kg (396,83 lbs)
Wall model Rotaposter excluding posters approx.	93 kg (205,03 lbs)

2.5 DIMENSIONS

See drawing 5 -6

2.6 COOLING

The temperature is constantly measured in the electronics, if a set temperature is exceeded (a default value is set in the factory), two ventilators are automatically switched on. You can only change the temperature set with the optional commander.

2.7 TIME CLOCK

The electronics have a time clock, with which the lighting can be controlled and the poster movement can be stopped individually. It is only possible to set or change values with the optional commander or to have the values you provide set at the factory. The clock is not astronomical, it does not automatically adapt to the seasons.

2.8 SOFTWARE

All the settings, apart from standstill times, can only be changed in the software with the optional commander. We can send you entirely new (firmware) software by e-mail, you can only download this if your optional commander has a memory card. This is not a standard commander.

2.9 MAIN SWITCH + EARTH LEAKAGE CIRCUIT BREAKER

The installer who connects the Rotaposter must install a main switch and an earth leakage circuit breaker.

3. MANUAL OPERATION

Open the door of the Rotaposter using the key supplied. The unit will now stop turning. You will find two push buttons on the right-hand side of the poster about 50 cm (19,69 in) from the bottom. Manual operation: With the top push button you can scroll the poster up and with the bottom push button you can scroll it down.

4. CONDITIONING POSTERS

The poster size, paper weight, etc. must meet the specifications set in section 2.3 and **Drawing 1**. Tolerances greater than those indicated on the drawing lead to serious and/or irregular errors. The zippers must be applied as indicated, **Drawing 2**. The poster material must be stored in a dry place. To cut them to size it is best to make a cutting template (of plate material) which has proper right angles and complies with the sizes and tolerances named in this manual. Sizes can deviate if your product was ordered in a special size, tolerances may not deviate !!

5. PLACING POSTERS and STARTING UP

5.1 Attaching posters

You can replace the posters directly in the Rotaposter and so on location. If you want to replace several posters in one go, it is best to attach them to each other beforehand and insert them in the device in one go.

With the manual operation scroll the top leader to a height that is easy to reach and zip the first poster to the top leader. **See explanation on cd-rom**. After zipping this poster, you apply 5 cm (1,97 in) wide transparent tape to the connection seam of the poster applied and the lead sheet on one side, **not** the sensor side, over a length of 5 cm (1,97 in) on the front and back, **See explanation on cd-rom**. This means that you use a piece of tape that is 5 cm (1,97 in) wide and 10 cm (3,94 in) long. You then zip in all the other posters in the order you want and at 1 end you apply the same piece of tape, **not** on the sensor side. *If you do not tape the ends, the poster will slide breadthwise and certainly get stuck!!!* Then you scroll the top roll up with the manual operation until the first poster is taut.



IMPORTANT:

After zipping in this poster, you apply 5 cm (1,97 in) wide transparent tape on 1 side, **not** the sensor side, on the connection seam of the posters applied.

5.2 Starting up the poster device

On closing the door, the device will calibrate itself. During this process, the top and bottom (lead/end) sheet will briefly be visible.



IMPORTANT:

Always close the door in a position where the poster is completely in view.

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If the wind is blowing so hard that problems occur whilst installing the posters, you should postpone placing the new posters. So do not replace the posters in case of strong winds or rain!

6. CLEANING

Switching off the power

Before you start cleaning the Rotaposter **always first switch off the main power supply.**

6.1 Windows

The windows can be made of hardened glass or plastic. Plastic windows are **soft and vulnerable** to scratches, so **always clean them with water**, cleaning them dry will lead to scratches and make them static so that they only get dirtier. If they are slightly dirty, take a bucket of water with a little washing-up liquid. Using a **clean sponge** sponge the windows down and then dry them with a squeegee. Very dirty windows should first be hosed off with water and then cleaned with a sponge, etc. Notice: make sure that during the cleaning process never the electronics get wet!

6.2 Housing

The housing can be cleaned with water and a sponge.

6.3 Seals and water holes in the door

Clean the seals on the door and the water holes in the door regularly.

6.4 General

Never use solvents to clean the window, housing or seals!!

Never spray water in the leak paths at the bottom of the door or on the seals.

6.5 Inside

Clean the inside with very little water and then dry it thoroughly, making sure that the guide brushes and paper do **not** get wet.

7 MAINTENANCE

7.1 Switching off the power

Before actions 7.1, 7.2 and 7.3 and before any other work to the inside of the Rotaposter, you must **always switch off the device's power supply.**

7.2 Locks

Lubricate the moving parts of locks once a year with a few drops of oil, no spray!

7.3 Lighting

The lighting must be colour type 33, you replace the tubes when this is necessary, either because the tubes are broken or because the amount of light is reducing because they are getting old. If fluorescent tubes break between 10,000 and 15,000 hours it is best to replace all the fluorescent tubes. Under 10,000 hours you can replace an individual tube.

7.4 Geared belts

Once a year check the tension of the geared belts and if necessary adjust it. You can adjust the belts by disconnecting the 4 nuts of the motor plate and then shifting the plate until the belt has normal tension. Then secure the motor plate firmly. Do not set the geared belts too tightly.

8 TRANSPORT

8.1 Housing

The housing is vulnerable without a base construction, the housing must be handled very carefully without its base construction. If the case is crooked 2 to 3 cm (0,79 to 1,18 in), poster guides will cause the glass plates to crack.

The Rotaposter may **only** be lifted using the special lifting hook, **see photo 1**.

8.2 Door

To remove the door, disconnect the gas springs and then lift out the door, **see drawings 3 and 4**.

9 EXTENDING THE LIFE OF POSTERS

If you want to extend the life of the posters, stick a vertical piece of tape about 3 cm along the height (vertically) on the front or back of the poster and on each side.

10 ERRORS

First check whether the posters have been damaged or are worn. Tears and the like can be repaired with adhesive tape, holes in the edge where the sensor is placed must be closed with light-proof film. After inspecting and/or repairing the posters, close the housing and switch the power supply back on. If the posters do not begin to move, then switch the power off and back on after ± 1 minute. If the posters still do not move when this has been done, check whether the zippers at the ends, *only* on the sensor side, are dirty so that there is no transparency. Clean the zippers at the ends. If the posters still do not move after doing this, check with manual operation whether the mechanism is functioning. If the mechanism is not working, then check audio/visually whether any defects can be seen.

Use of the optional commander

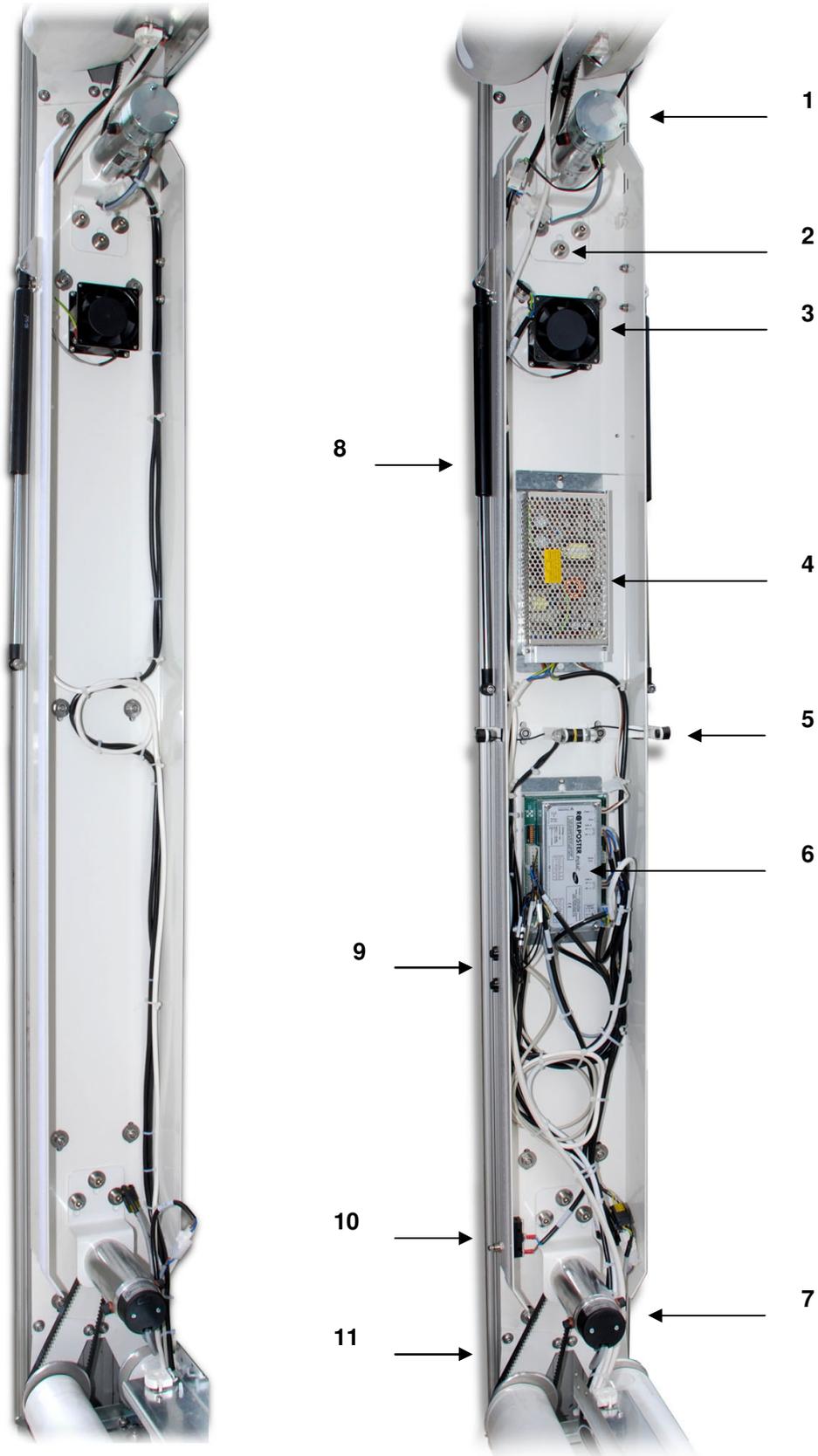
To get an indication of the cause of an error, you can also attach the Commander – if you bought one – as described in section 14 of this manual.

Disconnect the commander, close the housing and see whether the device starts to run. If this is not the case, then switch off the power and after about 1 minute switch it back on (reset).

Warning: never carry out this action when the lead or end sheet is exposed. If it is, then you must first move it manually before resetting !!

If switching the device off and back on did not help, consult Rotapanel International bv and inform them of the last error description displayed by the commander or if you do not have a commander inform them of the problems or other matters seen/heard. For a quick result, it is best to call Rotapanel on the number 0031582880000 on location at the Rotaposter using a mobile telephone, *first make an appointment* for this call in connection with time differences and the presence of technicians.

11 PARTS LIST



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11 PARTS LIST

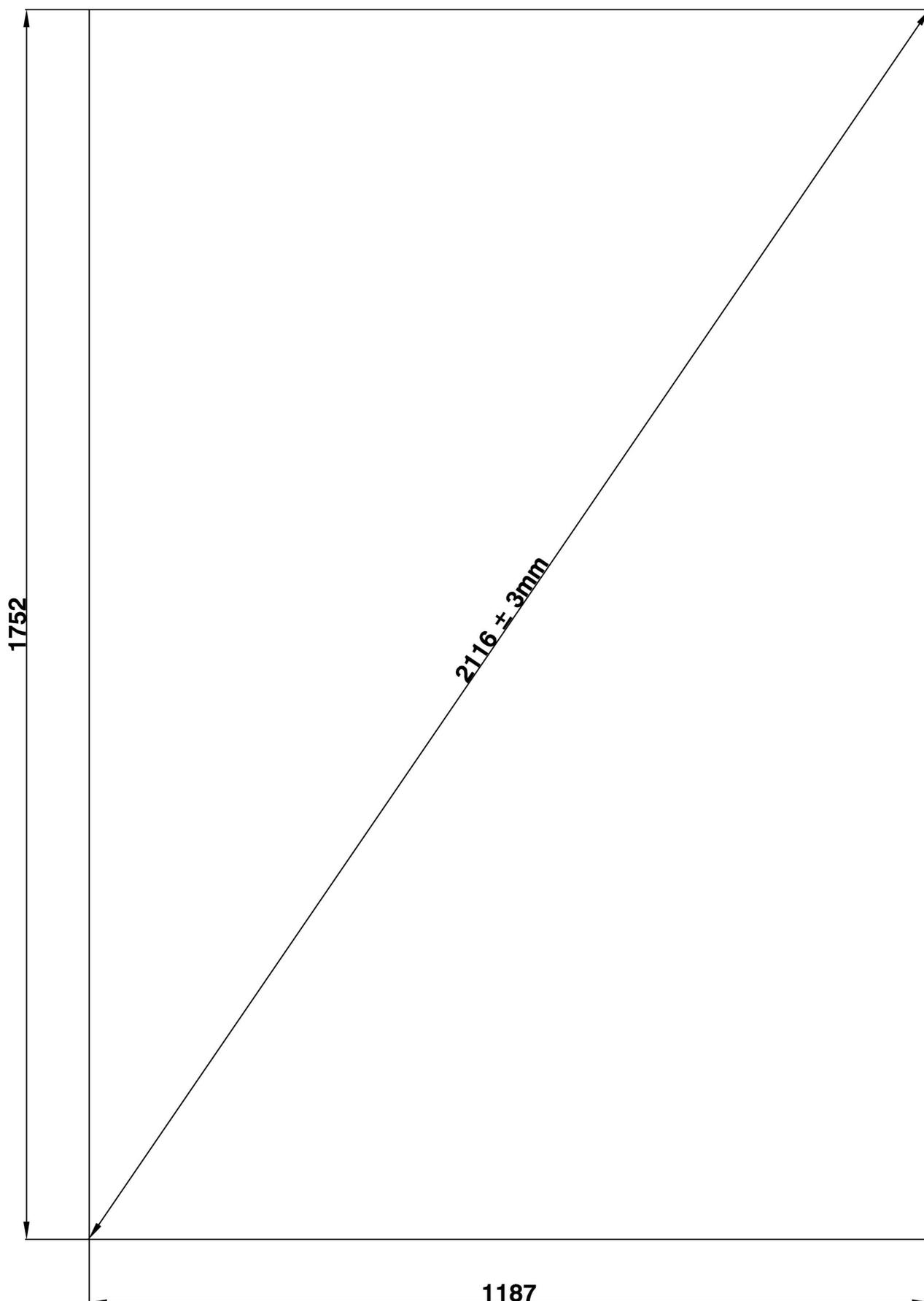
Parts

No.	Description
1.	Motor top with brake
2.	Bolts for mounting motors
3.	Ventilator
4.	Power supply (115 / 230 VAC)
5.	Sensor set
6.	Control unit
7.	Motor below with encoder
8.	Gas spring
9.	Manual operation up/down
10.	Door switch
11.	Geared belt

12 CD FILM

Most of the things in this manual are on the accompanying CD. Watch the CD before you start assembly or any other things.

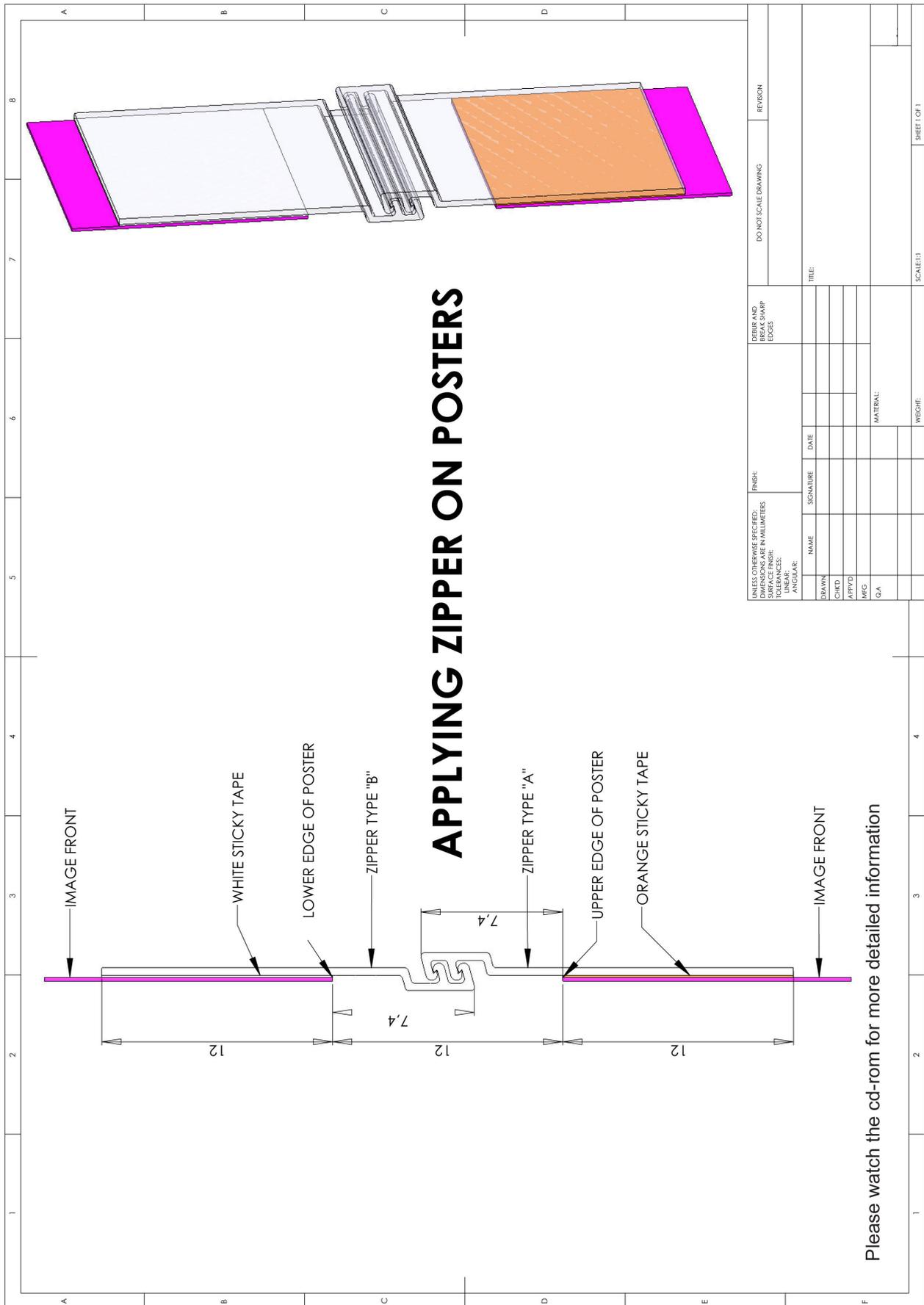
DRAWING 1.



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DRAWING 2.

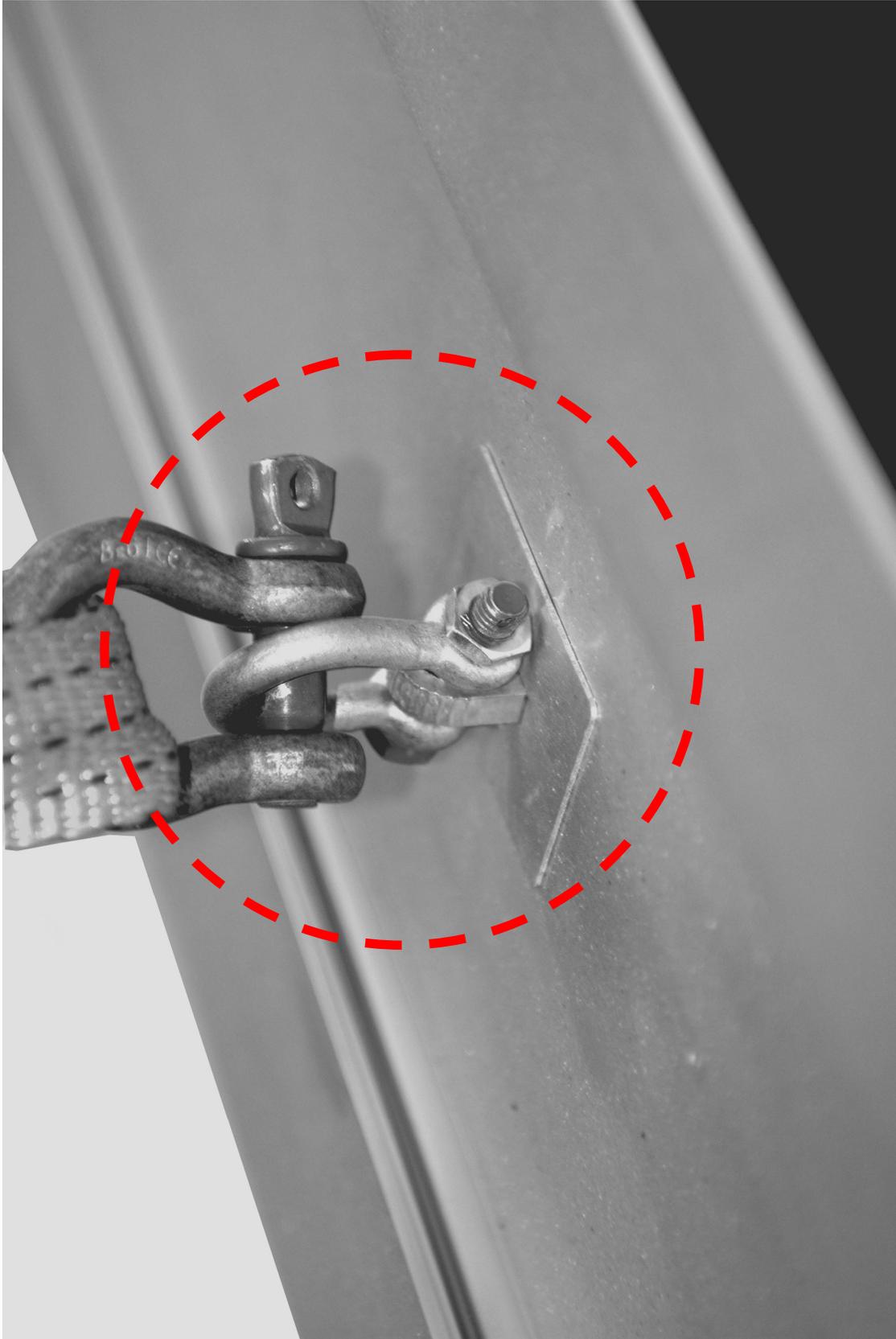


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		PREPARE AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
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						SCALE: 1:1		SHEET 01/1	

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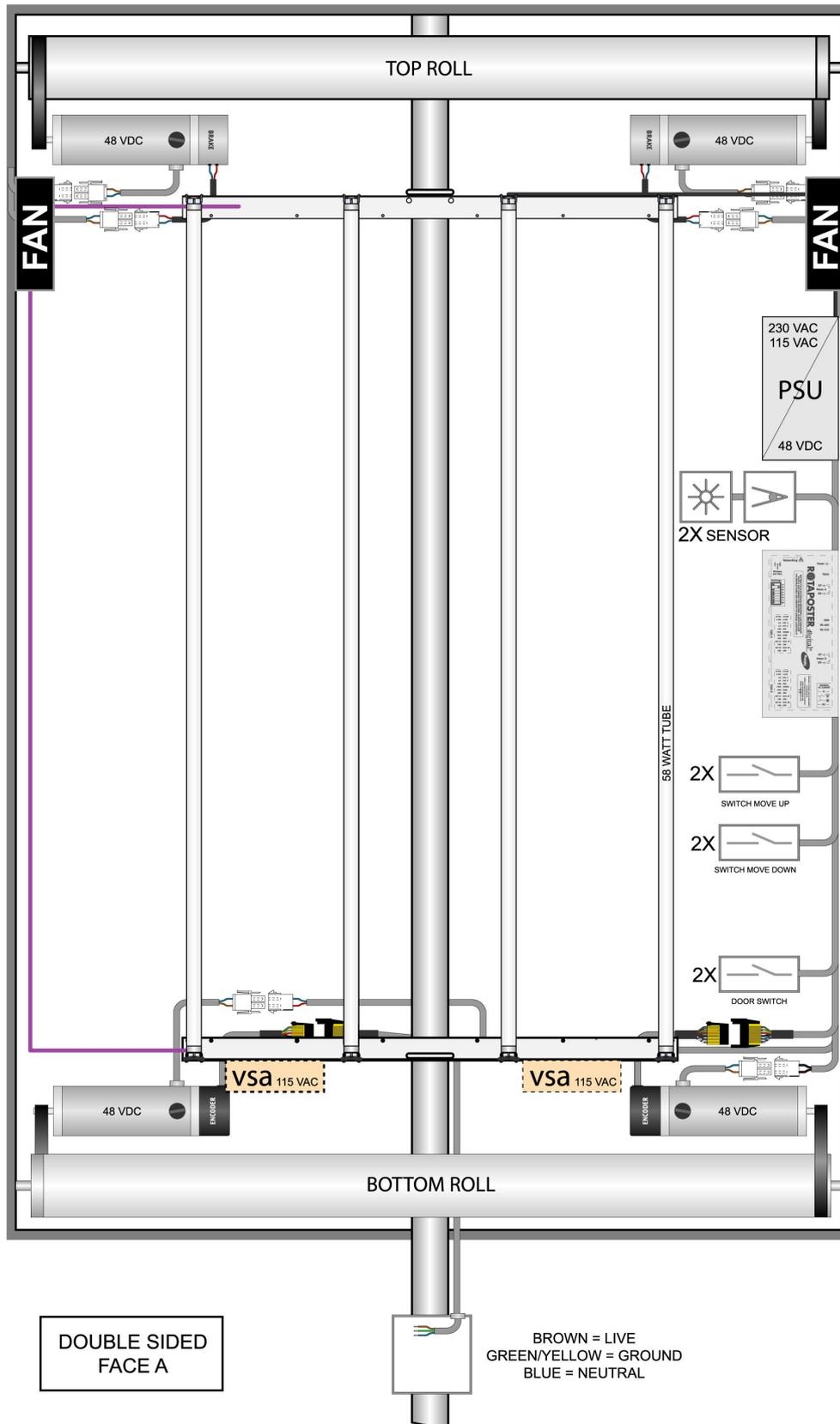
PHOTO 1



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13 CONNECTION DIAGRAM ELECTRONICS

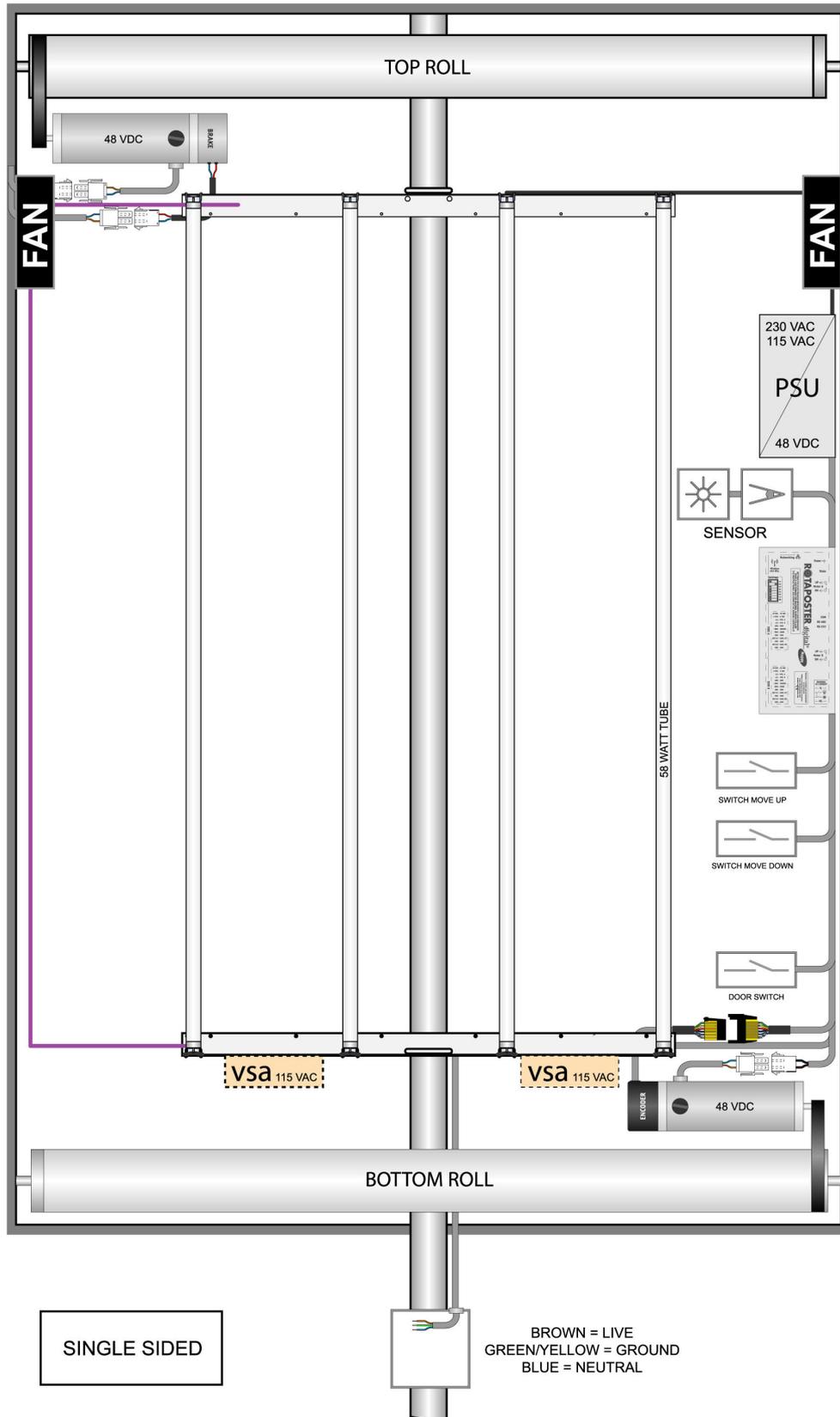
13.1 Double sided



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13 CONNECTION DIAGRAM ELECTRONICS

13.2 Single sided

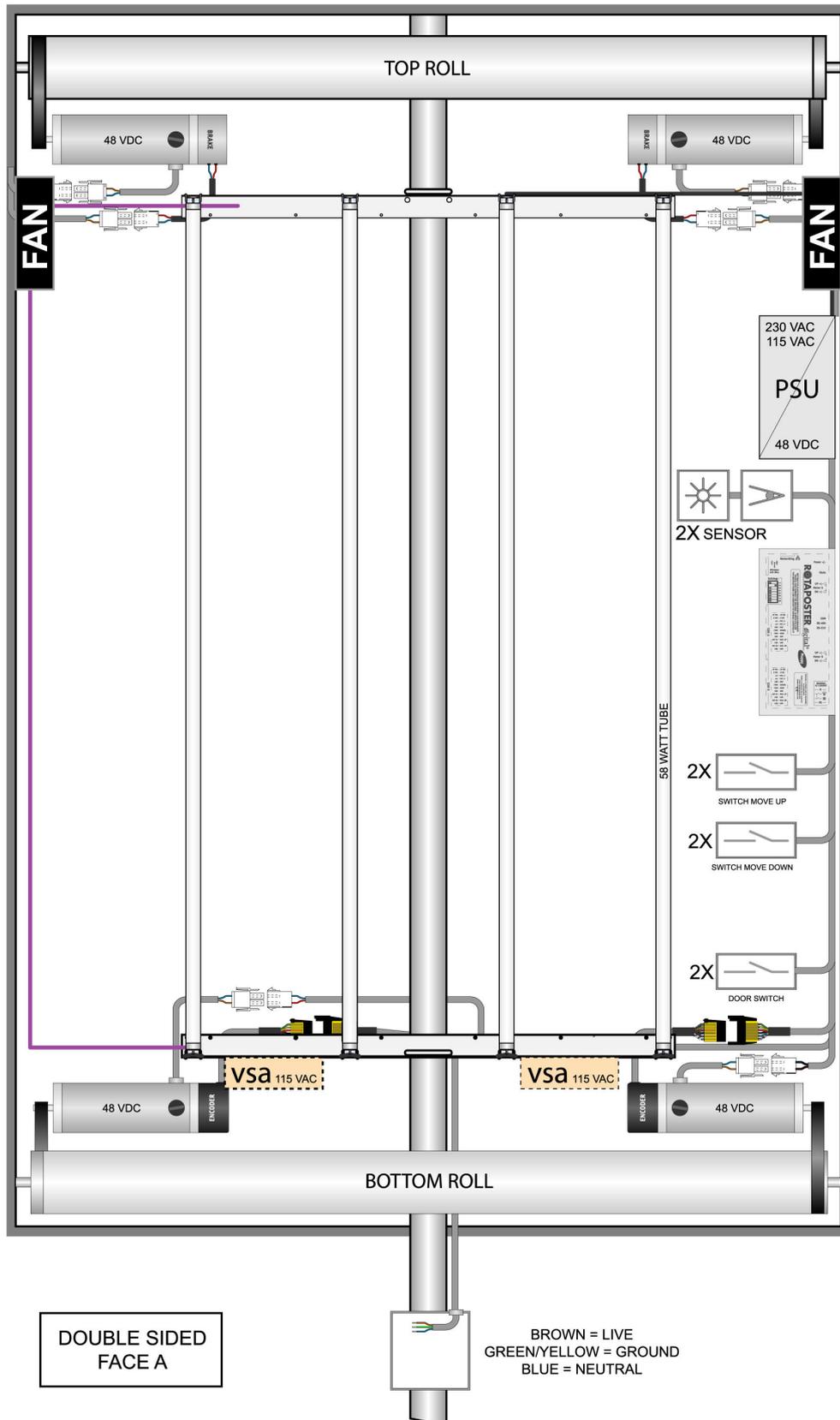


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13 CONNECTION DIAGRAM ELECTRONICS

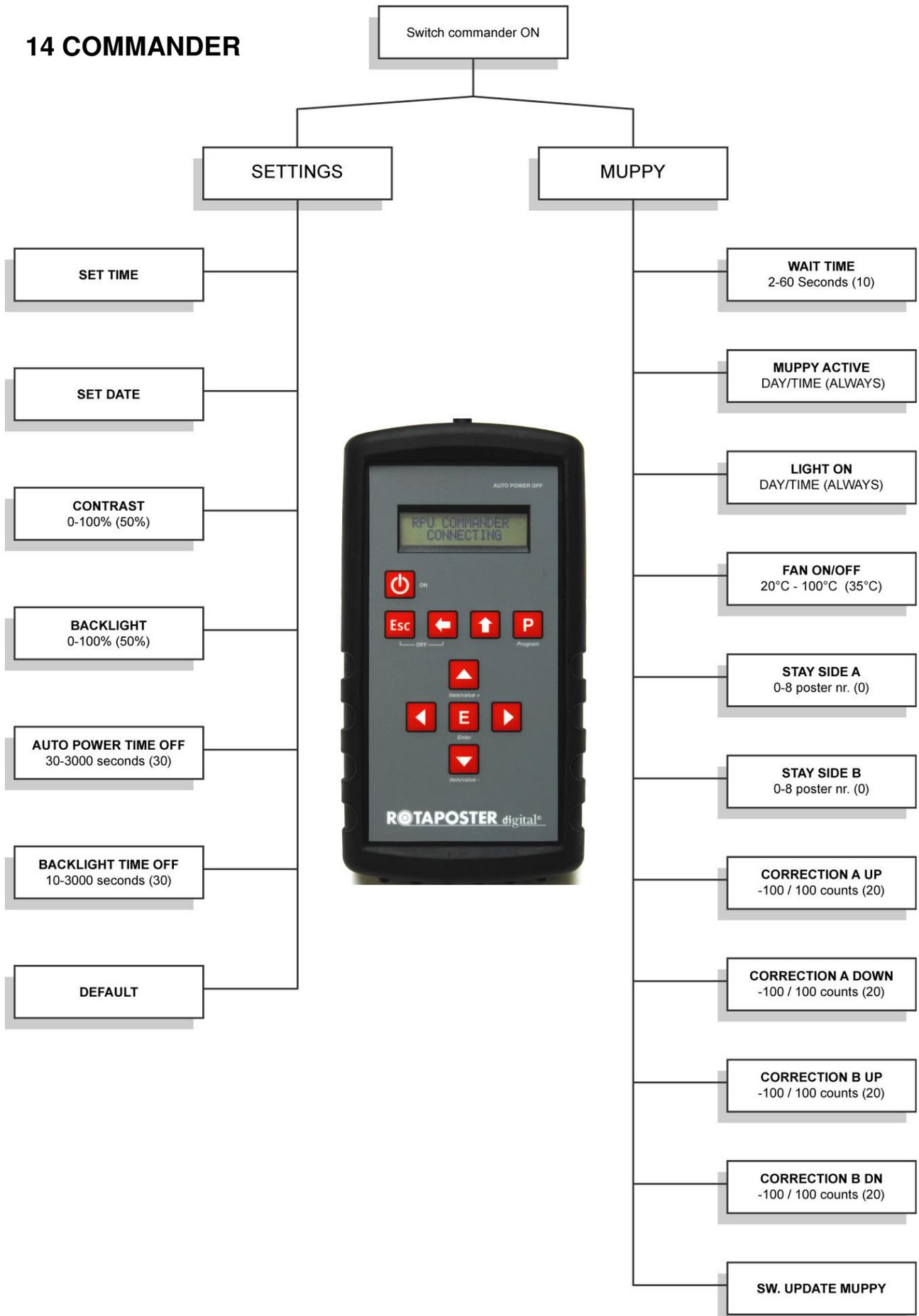
13.3 Wall mounted



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14 COMMANDER

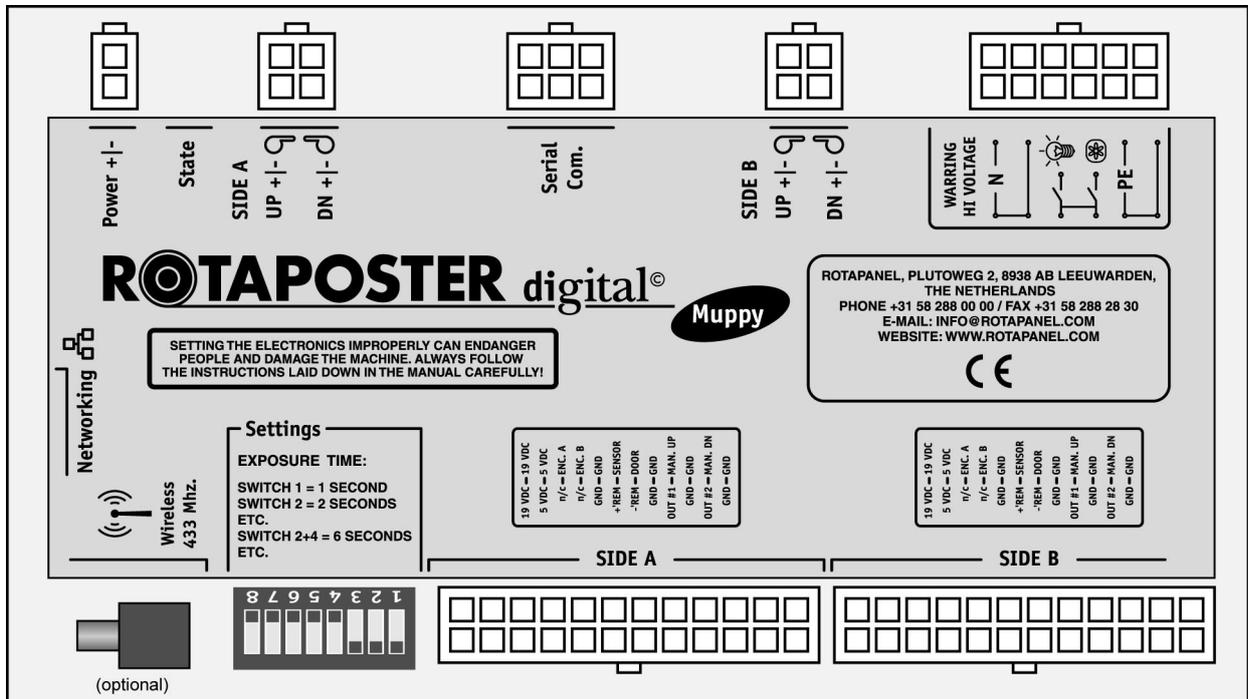


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15 SETTING POSTER STANDSTILL TIME MANUALLY

Adjustment of exposure time.



	<p>Dip switch 1 thru 7</p> <p>for setting the general exposure time</p> <p>1 = one second 2 = two seconds Adding all the values 1 thru 7 is a total exposure of 28 seconds</p>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>Dip switch 8</p> <p>Use the exposure time set by the (optional) commander</p> <p>Dip switches 1-7 have no effect</p>
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15 WIRELESS SYNCHRONISATION (optional)

Wireless RF Synchronisation

Each muppy can be equipped with a optional Radio Frequency Transceiver System (433 Mhz.) for wireless synchronization between multiple units. This wireless synchronization is based on a master-slave principle with all necessary features included to make it as fault tolerant as possible.

The maximum distance between the master and the last slave is approx 300 m (984,25 ft) in “straight line of sight” depending on local circumstances. To extend the distance between master and the last slave, we can deliver a repeater module.

Communication of master and slave can be setup to specific groups to a maximum of 64.

At power-up all units initialise independently, similar as for single operation. Depending if a unit is master or slave, the following happens:

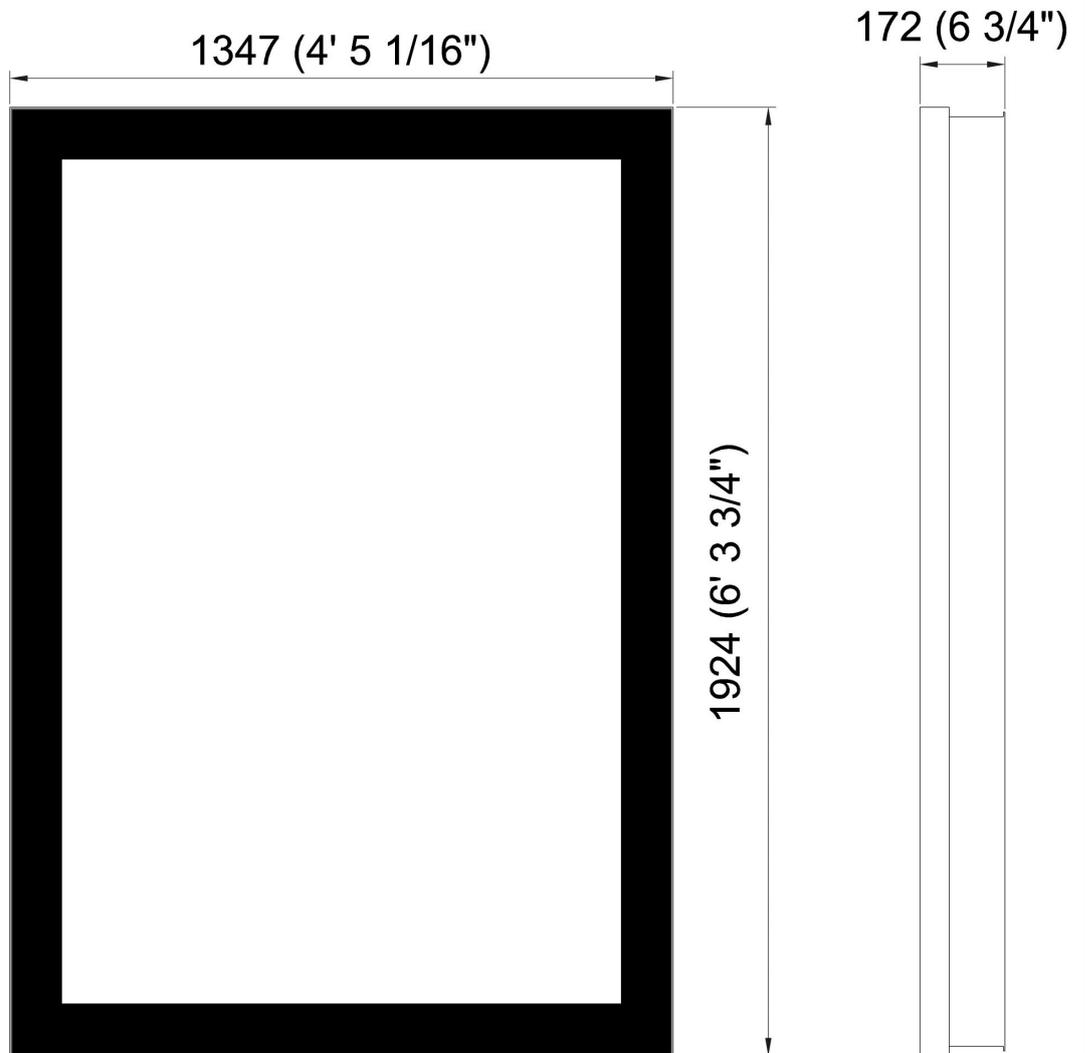
A master unit will start scrolling directly after initialization and starts transmitting synchronisation signals to the slaves. A slave unit will initialise and start scrolling according to its slave delay time setting, normally set to zero. As soon as it picks up as synchronisation signal, it will automatically synchronise with the master.

A slave that has been running synchronised but loses contact with the master for more than 90 seconds will start a life of its own according (to?) its poster display time settings. In all cases slave units will synchronise with the master units as soon as synchronisation signal are received.

Hardware:

- RF 433 Mhz. antenna & mounting bracket
- Main controller supplied with a al wireless feature.

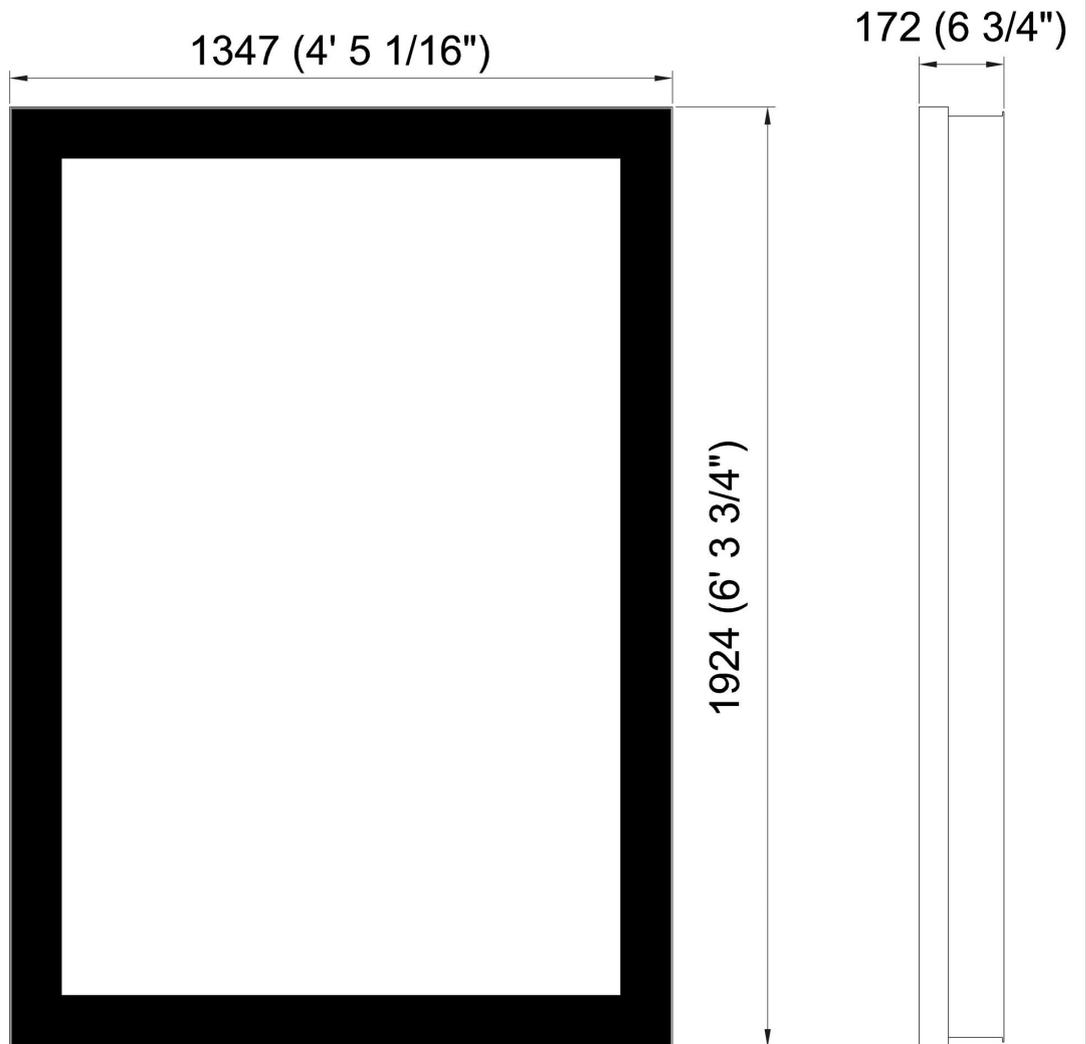
DRAWING 5



	Client	
	Code	Muppy single sided
	Tekenaar	G.D. Lanting
	Date	06-07-2007

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DRAWING 6



Client	
Code	Muppy single sided
Tekenaar	G.D. Lanting
Date	06-07-2007

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