



JX 2360

User manual

Release 1.0

This document is subject to modification without notice
Please, if necessary, ask for new release at : contact@flashelek.com

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1 Generals

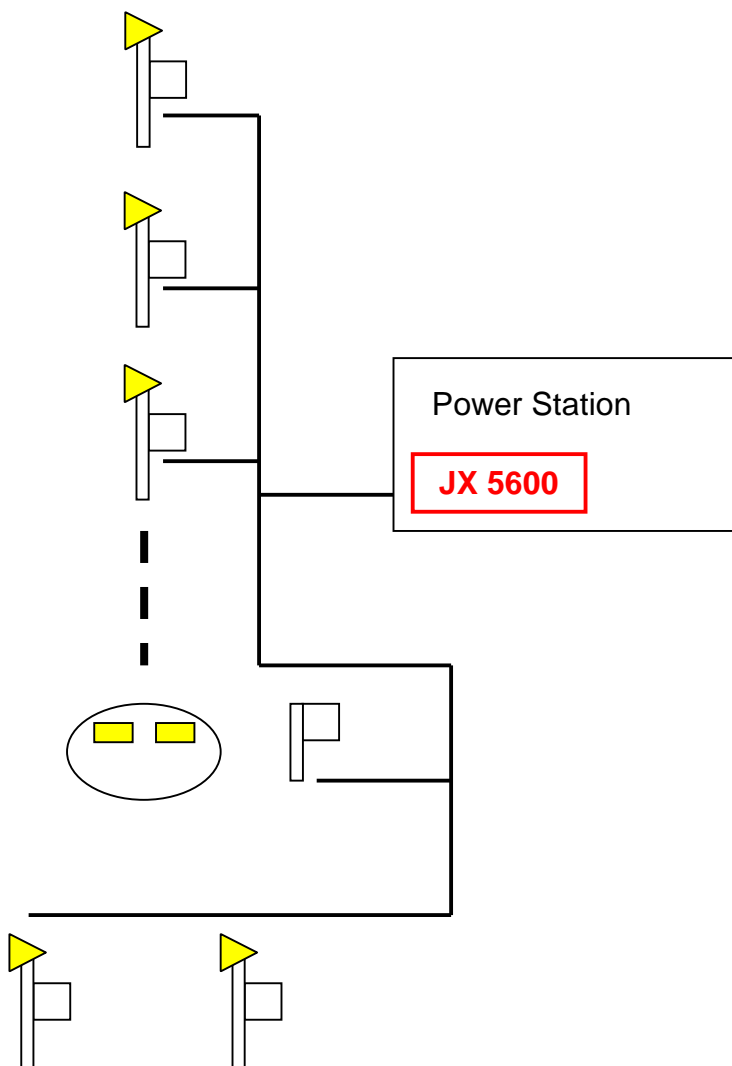
The JX 2360 set has to be used in conjunction with a PAR 56 Type Flash lamp (2000V typ.)

In this case it complies with ICAO Annex 14 recommendations.

The JX 2360 can be used to realise SFLS cat I and cat II/III with and without RTIL.
It also can be used as RTIL only, ODALS and Helipad approach.

2 Physical wiring

2.1 Mains



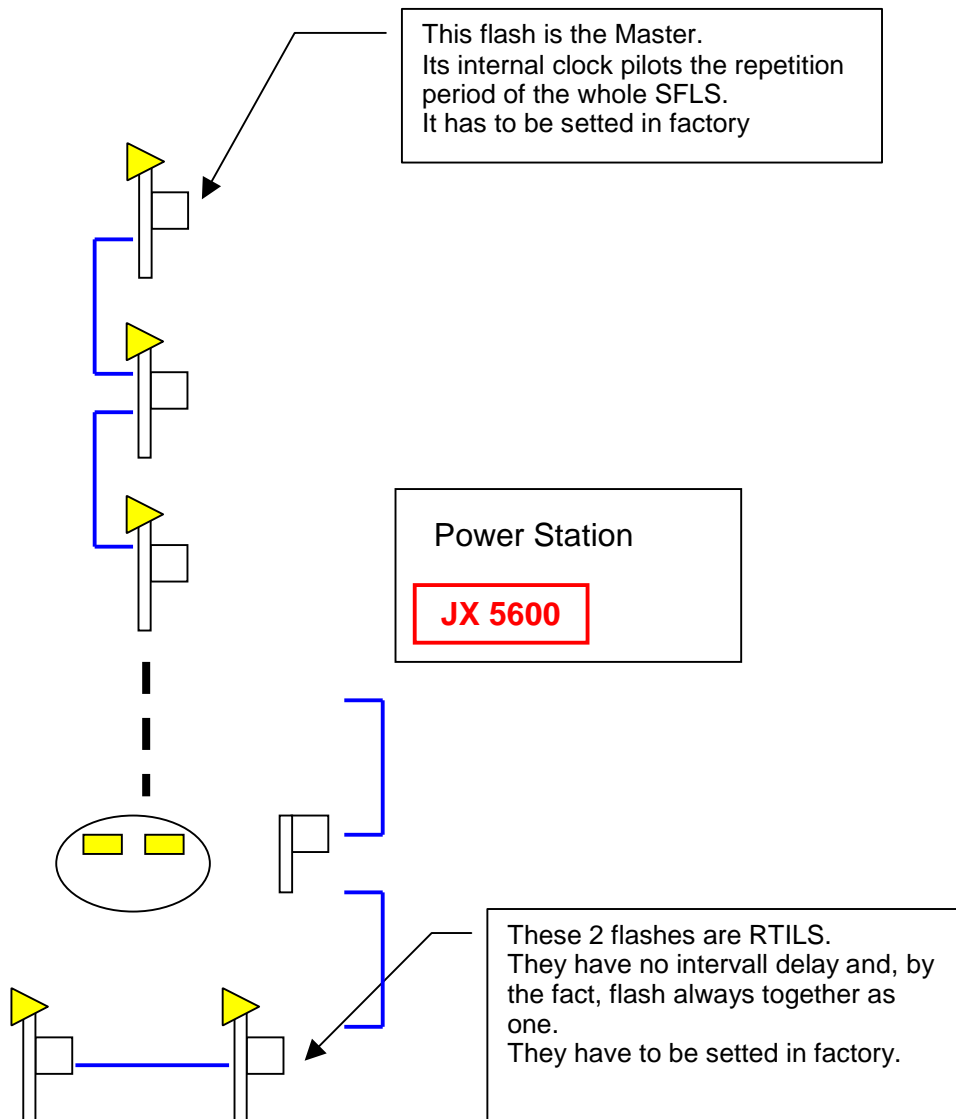
The Power Station supplies the sets with main 230V AC +/- 10 % (Black wire on diagram).

The mains cable have to be able to supply 0,5 rms A (230 V AC) or 1 rms A (110 V AC) for each flash lamp.

This power supply is maintained continuously on line, as the eventual heater resistor may have to be supplied. Anyway, in case when the heater resistor have to be switched off, it must be supplied with a separate cable.

The Supervision system (for example JX 5600) will be in charge of switching On and Off the flashes.

2.2 Time Base sequence



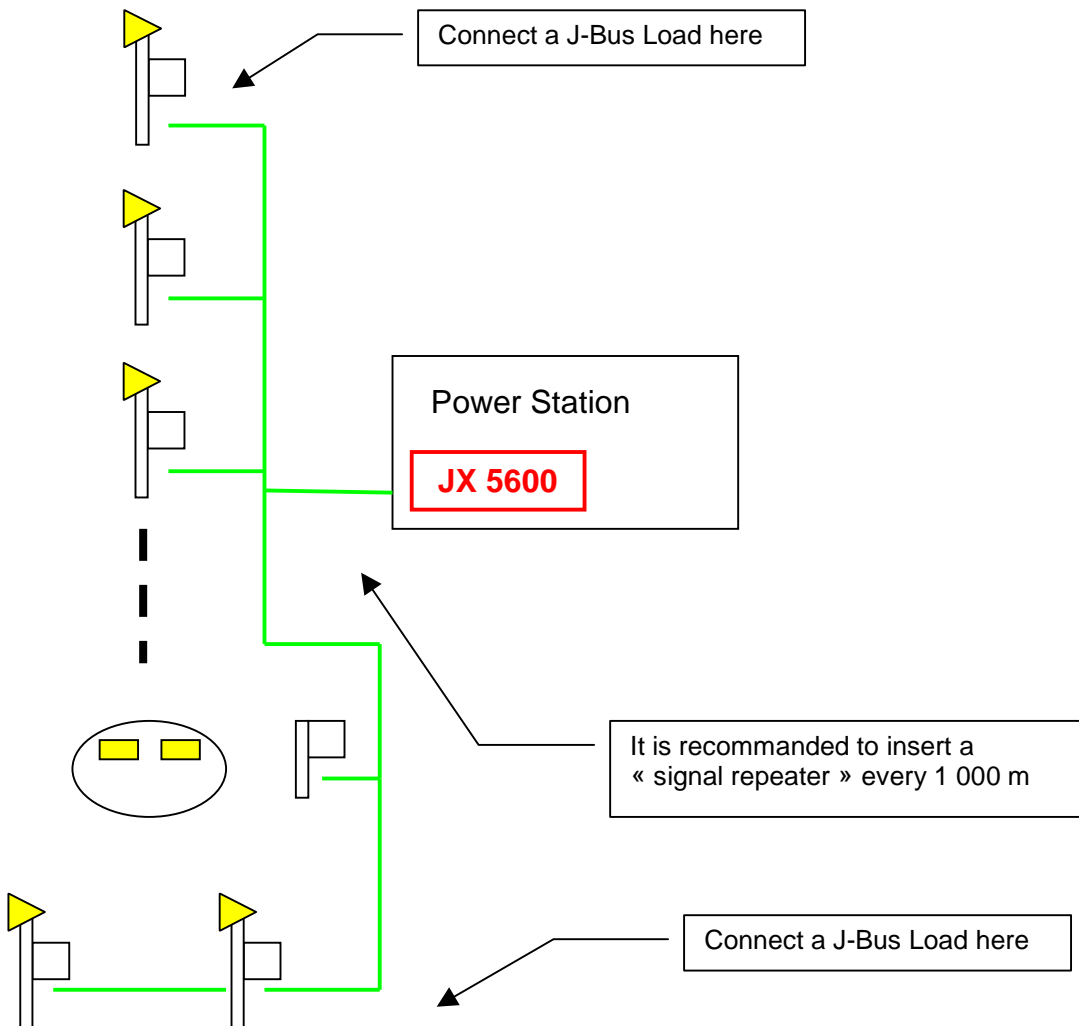
The sets are hierarchically sequenced via an unique analog time base line (clock signal, blue wire on diagram)

This signal passes through single shielded wire.

Each clock top is a 20Vpp pulse of 10 ms duration.

2.3 Commands

2.3.1 J-Bus mode



The sets are monitored and controlled via a serie (RS485) digital bus called J-Bus (Green wire on diagram) This bus is constructed with a shielded twist pair cable.

This bus allows JX 5600 to :

1. Command the sets
2. Query the sets

It is necessary to connect a J-Bus Load on each “end of line” to insure a perfect impedance for the digital signal. 3 J-Bus Loads are delivered with each JX 5600¹.

A “signal repeater”² (symmetrical amplifier) may be necessary when the line is longer than 1 000 m, even if a 1 600 m trial succeeded

The J-Bus lets the JX 5600 command the flash sets state and query sets infos.

For more details see JX5600 User Manual document

¹ If you need spare parts do not hesitate to ask at your reseller or contact@flashelek.com

² Ordered separately. Ask your reseller for details or send a mail at contact@flashelek.com

2.3.2 Analog mode

The sets can also be monitored by short circuiting 3 wires onto a ground 4th wire. On the connector ,the wiring can be done as follow :

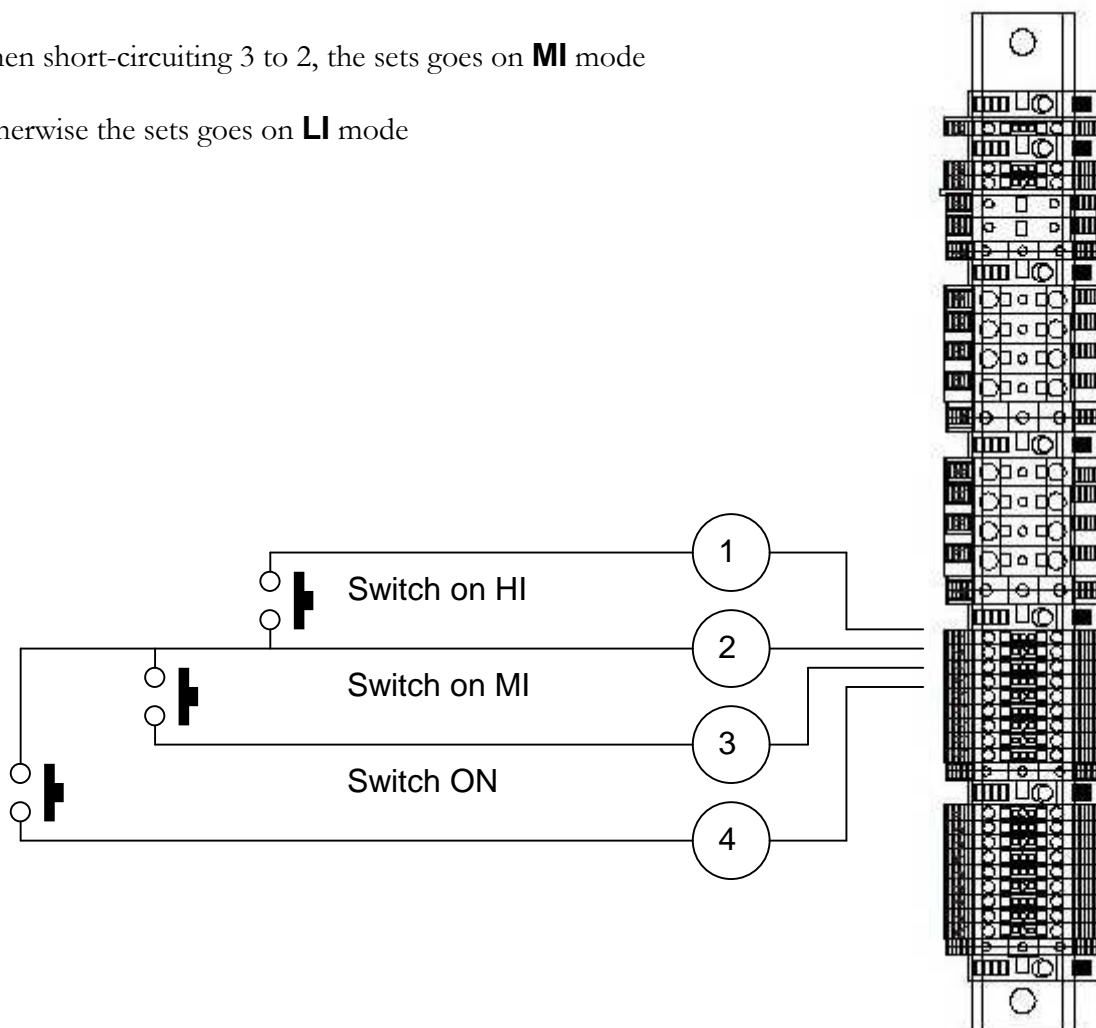
When short-circuiting 4 to 2, the sets goes **ON**

When they are ON :

When short-circuiting 1 to 2, the sets goes on **HI** mode

When short-circuiting 3 to 2, the sets goes on **MI** mode

Otherwise the sets goes on **LI** mode



3 Setting up

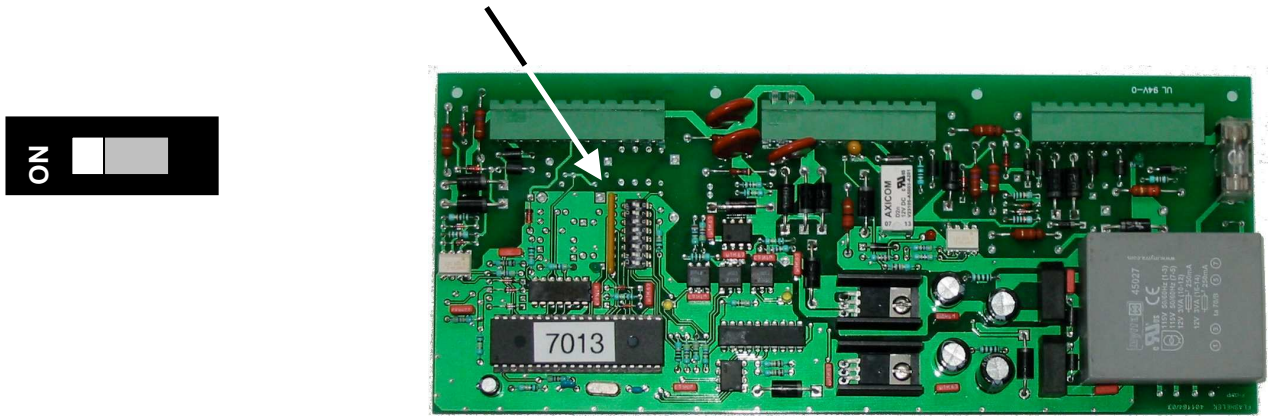
The sets are configured in factory, you normally need'nt change the configuration.

Anyway, if it would be necessary, proceed as follow :

Open the cabinet

On the clock panel, locate the 8 micro-switches

Verify that the switches nbr 1, 7 and 8 are **ON**



- Master/Slave

To configure the set on MASTER, push the switch nbr. 2 **ON**

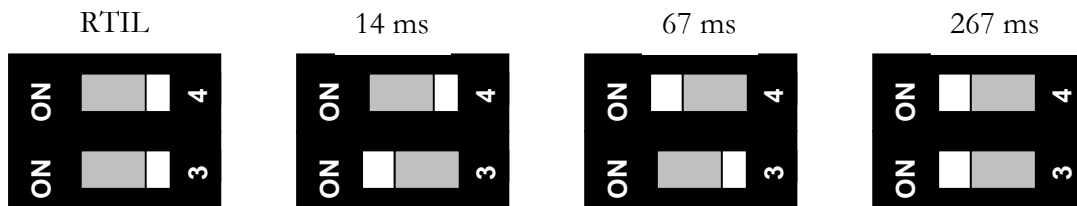


To configure the set on SLAVE, push the switch nbr. 2 **OFF**



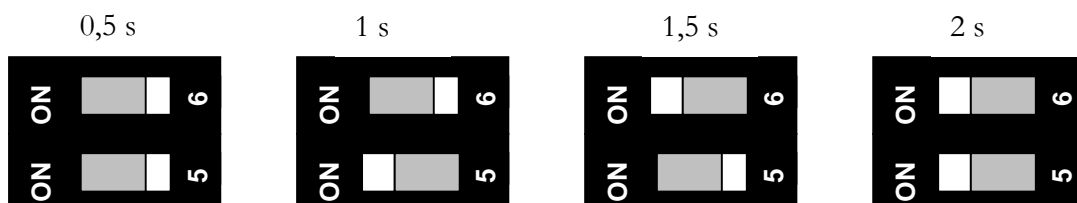
- Inter-Flash Delay

Configure the switch nbr. 3 and 4 as follow



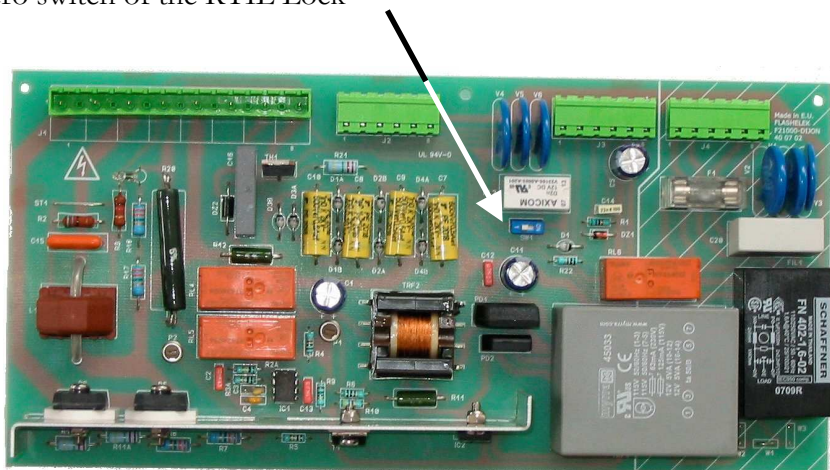
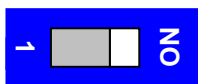
- Period

Configure the switch nbr. 5 and 6 as follow

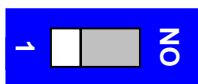


On the auxiliary panel, locate the micro switch of the RTIL Lock

- On the MASTER and on the SLAVES this switch has to be **ON**



- On the two RTILS this switch has to be **OFF**, this will activate the auto locking system. By the fact, when one of the two RTIL is faulty, the other stops flashing.



4 Technical specifications

Power supply	230V AC (+/- 10%) 50 Hz <i>(110V AC 60Hz on demand)</i>
Repetition period	0,5s – 1s – 1,5s – 2s <i>(setted in factory, these values can be changed on site with JX5600 interface)</i>
Inter-flash delay	14 ms – 67 ms – 267 ms <i>(setted in factory, these values can be changed on site with JX5600 interface)</i>
Brilliance levels	High intensity 100% (day mode) Medium intensity 10% (crepuscular mode) Low intensity 3% (night mode) <i>(these values can be changed on site with JX5600 interface or via simple switches)</i>
Power consumption	150 VA typ.
Cos φ	Higher than 0,95
Efficiency	Higher than 80%
Working temperature range	-25°C to 55°C Outer boxes may be equipped with a heater resistor for very low temperature or particularly high moisture
External dimensions	H 350 mm x W 300 mm x D 172 mm

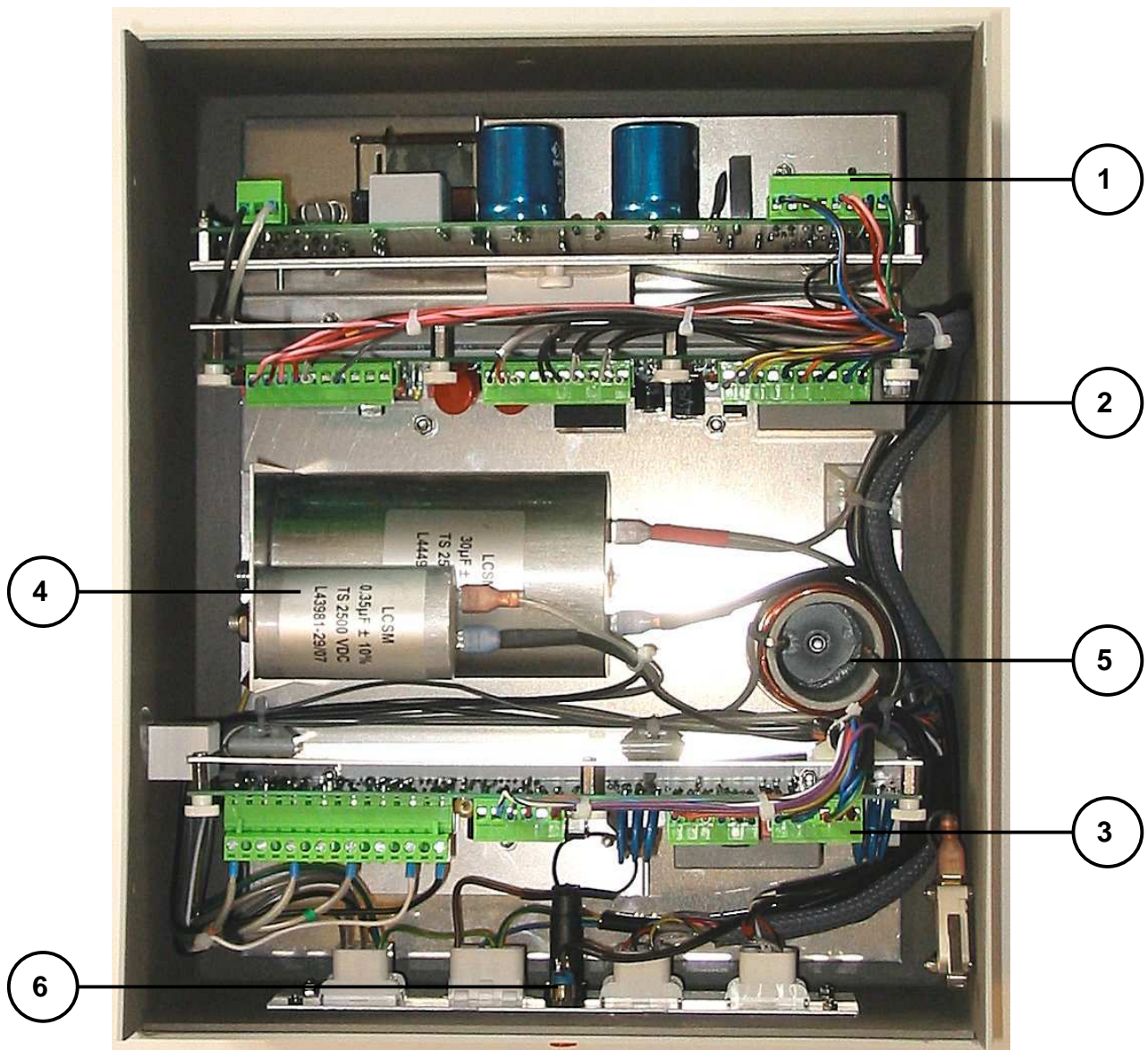
5 Wiring

For wiring details, see the Outer Box connection manual

6 Packing

Each set is delivered with an OuterBox connector	H 320 mm x W 440 mm x D 280 mm
Weight	8 kg

7 Spare parts



		Order Code
1	Power Supply	30 07 04
2	Clock Panel	30 13 64
3	Auxiliary Panel	30 07 02
4	Set of capacitors	31 00 30
5	Power coil	41 00 20
6	Set of fuses (by 5)	31 00 05