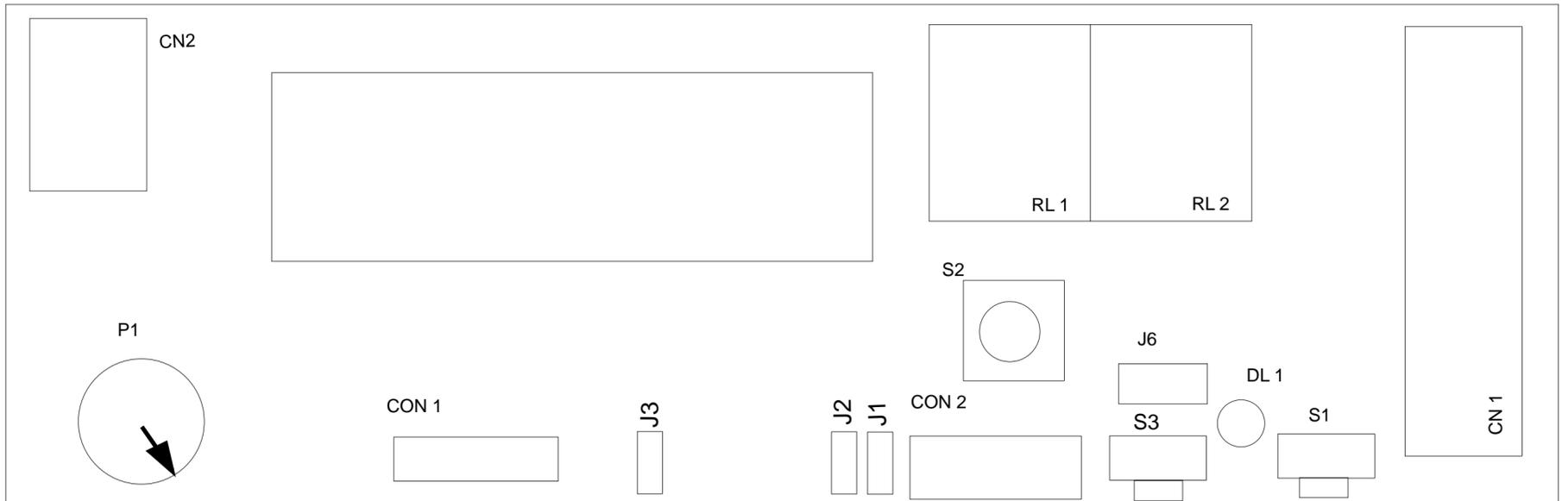**SEA**

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Technical Data

Voltage: 12 - 24 Vdc/Vac
Consumption: 20mA
Frequency: 433.920 and/or 868.300 Mhz
Code: 64 bit digital crypted rolling code
Number of storing code: from 200 up to 800 according to memo capacity
Number of channels: 2
Kind of relay exit: monostable, bistable, timed
Exit: N.O
Interface: StandardRS232C
Operational temperature range: -15°C/+60°C
Storage temperature: -40°C/+80°C
Relay capacity: 1A max @24Vdc
Dimension: 40 x 117mm
Humidity: from 5% to 90% no condensation

Label	Description
CN 1:	Power supply connector/relay exit
CN 2:	Antenna connector
CON1:	Memo module connector
CON2:	Interface connector Rs232
S1:	Self-learrning button
S2:	Memo cancelling button
S3:	Memo copy button
J1:	Jumper channel 1
J2:	Jumper channel 2
J3:	Jumper timer
J6:	Jumper power supply selection
P1:	Timer adjustment trimmer
RL 1:	Relay channel 1
RL 2:	Relay channel 2

In this box you will find:

1. Electronic circuit
2. Instruction Manual
3. Plastic box

The receiver module (RX) at 433.920 Mhz and/or 868.300 Mhz had been projected by SEA to speed instillation and guarantee the best reliability in the use through the many functions available such as: self-learning at a radio transmitter acting on the receiver from a remote location, channel cancellation, bistable exit selection, memo cancellation, memo backup copy, memo backup resumption, timed exit, PC interface or purposefully made code control Terminal and serial interface module according to RS232C code storing for users alphanumeric identifiers
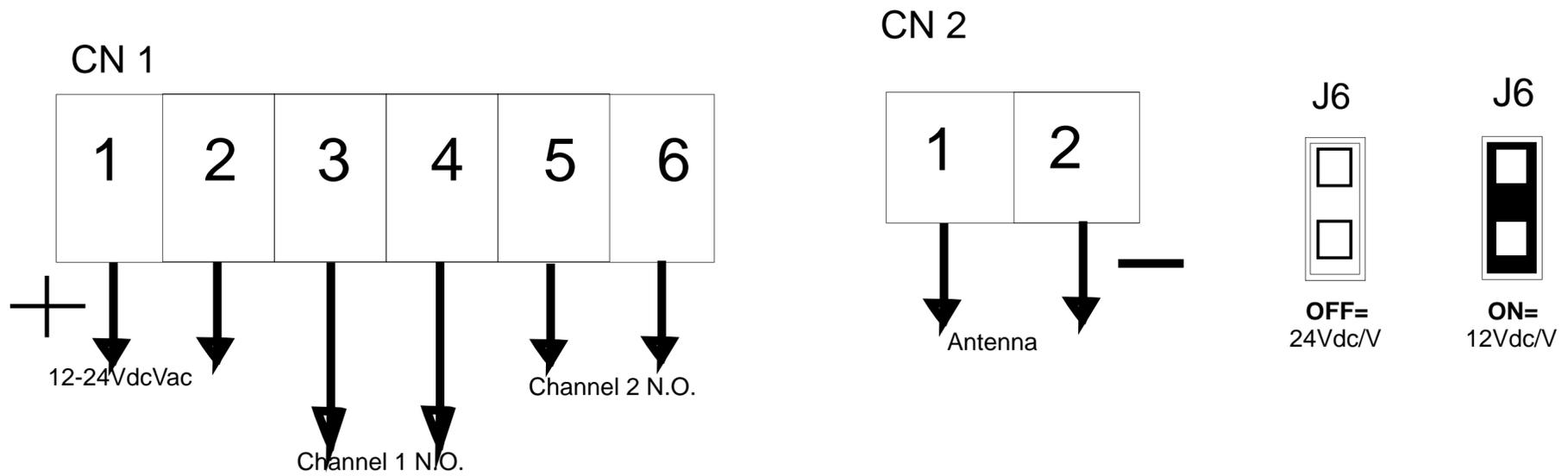
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Double Channel Receiver
iNSTALLATION AND MAINTENANCE MAUNAL

LAYOUT

CN 1

| 1 | 2 | 3 | 4 | 5 | 6 |

12-24VdcVac
Channel 1 N.O.
Channel 2 N.O.

CN 2

| 1 | 2 |

Antenna

J6 — OFF= 24Vdc/V
J6 — ON= 12Vdc/V

Description
Learning of a radio control
- When programming Channel 1 close jumper "J1"
- When programming Channel 2 close jumper "J2"

- Push the **S1** key for at least ½ seconds, the Led indicator will begin flashing.
-Activate the desired key on the new transmitter.
- The Led will indicate a long flash and then switch off confirming the storage.
- Remover the jumper.
- Verify the storage at once by activation a command.

Each Relay output must be set one by one (with only one jumper connected).

For each single transmitter it is possible to repeat the learning procedure up to four times (one for each key/channel available), in any case the storage is fixed and equal to only one location of the 200/800 available.

N.B: If no compatible radio control is activated within about 18 seconds from the input in the learning mode (Led indicator is flashing), a safety timer resets the circuit in the normal functioning mode (Led indicator off).

Amendment to the channel of a radio control
it is sufficient to repeat the learning procedure with the new output selection and/or combination of keys. The amendment is possible at any time and does not involve any further use of storage.

Cancellation of a channel of a radio control
- Remove all jumpers corresponding to the relay output/s.
- Set learning by **S1** key.
- Activate the key/channel of the radio control to be cancelled
- The led indicator will switch off confirming the cancellation.

All the assignments relevant to a radio control can be cancelled repeating the channel cancelling operation for all four channels. In this way, the storage location used is emptied and available again.

Step-by-step output selection
- Insert the J1 jumper.
- At each activation of a radio control stored with a channel connected to such output, relay 1 must be switched from open to closed or vice versa.
- Insert the J2 jumper.
- At each activation of a radio control, stored with a channel connected to such output, relay 2 must be switched from open to closed or vice versa.

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Double Channel Receiver
iNSTALLATION AND MAINTENANCE MAUNAL

Cancellation of the whole "on board" storage

- Push the cancelling key for at least 1 second.
- When you release, the operation of cancelling must begin.
- The Led indicator will light without flashing during the operation of cancellation and switch off only at the end of operation.

ATTENTION: The above mentioned operation is a type of total cancellation, all codes (radio controls), will be cancelled without any chance of being saved.

copy of the "on board" storage on the auxiliary module (creation of backup copy)

- Insert a storage device mod. Me200 into the auxiliary base (for units with 200 users) or mod. Me800 (for units with 800 users).
- Push the copy Key for about ½ second.
- The Led indicator must light without flashing during the copy process.
- The Led indicator switches off, the copy will be ready.

Copy of the storage from the auxiliary module to the "on board" storage (restore operation)
 It is possible to create the Restore copy only after having carried out the operation of storage cancellation.
- Insert a storage device mod.ME200/ME800 into the auxiliary base.
- Push the Copy Key for about ½ second.
- The Led indicator must light without flashing during the copy process.
- When the Led indicator switches off, the copy must be ready.

setting of the remote control.

- Consider a (Master) radio control already memorized from the unit.
- Push the remote learning key on the radio control.
- The Led indicator on the receiver must flash.
- Push any key on the radio control to be learnt.
- The Led indicator on the receiver must stop flashing, after a long flash.
- Varity that all the programming carried out on the master radio control os copied on the new radio control.

setting and adjustment of the timed output (available only for channel 2)

- Insert the J2 jumper (step by step function of channel 2 output).
- Insert the J3 TIME jumper (timing at the end of channel 2 output).
- Adjust the trimmer so as to reach the desired timing, bearing in mind the following parameters:
 Minimum Timing about 18 sec.
 Maximum Timing about 5 min.
 Turning the trimmer clockwise, time decreases.

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Double Channel Receiver
INSTALLATION AND MAINTENANCE MAUNAL

NOTE: Do not turn the trimmer during the active timing (energized relay)

Interface with a personal computer according to the RS232C standard
The reception module (RX) at 433.920 Mhz and/or 868.300 Mhz is directly interface able with PC if a personalized software commination SEA srl (serial interface) is owned.

By using the software it is possible to carry out the following operations

- Searching a memorized radio control on the (RX) module.
- Storage of a new radio control code combined with an alphanumeric identifier.
- Cancellation of a memorized radio control (RX) module.
- Total cancellation of the storage on the PC storage (creation of the backup copy).
- Copy of the storage (only code) from PC on the on board storage (restore operation).

interface with a specific code control terminal and serial interface module, according to the RS232C standard.

The reception module (RX) at 433.920 Mhz and/or 868.300 Mhz is directly interface able with specific code control terminal and serial interface module, which allows the management of the codes in the installation.

SPARE PARTS

The spare parts must be requested to:
SEA(UK)LTD

intended use

The (RX) receiving module at 433.920 Mhz and/or 868.300 Mhz has been designed to be used exclusively as a receiver of digital data at the frequency of 433.920 Mhz and/or 868.300 Mhz sent to a SEA transmitter which transmits on the same frequency and is encoded so as to be interfaced with the (RX) receiving module at 433.920 Mhz and/or 868.300 Mhz: the receiver must only be used as a generator of commands to be sent to a SE control unit to automate the opening and/or closing of doors, gates and shutters and must be powered at a safety voltage (12 Vdc battery 23 A)

SAFETY AND ENVIRONMENTAL COMPATIBILITY
Please dispose if this product packaging in a responsible and appropriate way.

CONFORMITY REQUIREMENTS

The receiver module (RX) 23120025, 23120026, 20015, 23120027 receiver module at 433.820 Mhz abd 23120340 at 868.300 Mhz conforms to the following:
-1999/5/CE (R&TTE) Regulation
- ETS 300 683
- ETS 300 220
- EN 60065

STORAGE:

STORAGE TEMPERATURES			
Tmin	Tmax	Humidity Min	Humidity Max
-40°C	+80°C	5% no condensation	90% no condensation

When being transported this product must be properly packaged and handled with care.

DECOMMISSIONING AND MAINTENANCE

Maintenance and decommission of this product must inly be carried out by specialised and authorised personnel.

countries of distribution
SEA will see its products at 433.920 Mhz and/or 868.300 Mhz within the countries of the European Community.

LIMIT OF GUARANTEE

The receiver device (RX) at 433.920 Mhz and/or 868.300 Mhz os guaranteed for a period of 24 months, The guarantee period starts from the date printed on the product. The guarantee will be void if this unit has been incorrectly installed, not used for the purpose intended, tempered or modified in any way.
The validity of this guarantee only extends to the original purchaser.

NOTE: THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE CAUSED BY INADEQUATE FAULTY OR UNSEASONABLE USE IF THIS DEVICE

SEA reserves the right to do changes or variations to its products with no obligation to notice.