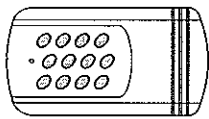


DIGIKEY

CE 06810

SEC-0003



SEDK2641A4
SEDK2641A4T

1 - Introduction

Digik is a codified radio keyboard operating at 433.92 MHz. If used in applications where a codified radio signal has to be used to control: gates, garage doors, rolling shutters, sun-blinds, anti-burglar appliances, lightings, etc.). The code has a very high security coding system. (Keeloq® Hopping code). The code sent by the transmitter changes at every activation, avoiding any scanning and copying risk. A special algorithm allows to keep synchronized transmitter and receiver.

The radio transmission is enabled only after the dialing of a security user code. There are up to 6 + 2 different channels that can activate up to 6 different receivers or relays. The receiver that can be used to operate with, can be one of the Series Etrone SEL2641R433. The internal memory can store up to 22 different security user codes and 1 Master code. The product fully complies with the European directives 73/23/CEE, 89/336/CEE, 99/05/CE.

2 - Technical specifications

- Number of keys: 12
- Number of channels: 6 + 2
- Supply: 3 Vdc
- Battery duration: about 36 months
- Battery type: Lithium CR123A
- Current consumption: 20 mA
- Operating frequency: 433.92 MHz
- Modulation: AM/ASK
- E.T.P.: 6 mW
- Security Code combinations number: 2²⁴
- User security code number: 22 + 1
- Transmission duration: 2 sec.
- Range in open space: from 150 to 700 m
- Operating temperature: from -10 °C to +55 °C
- Dimensions: 145 x 79 x 32 mm
- Weight: 92 g
- IP Protection Grade: IP44
- Buzzer / Tamper (where installed)

3 - Types

- SEDK2641A4** : Radio keyboard without tamper;
- SEDK2641A4T** : Radio keyboard with tamper.

4 - Installation phases

- 1 - Locate the best position for the fixing, avoiding metallic surfaces that could decrease the RF emission;
- 2 - Mark the location of the fixing holes using the bottom of the box as drilling template;
- 3 - Drill the fixing holes and insert the plugs;
- 4 - Remove the protection strip from the seal;
- 5 - Assemble the seal and the bottom;
- 6 - Fix the bottom with the screws supplied;
- 7 - Mount the cover on the fixed bottom;
- 8 - Fix the cover to the bottom with the 2 screws supplied.

5 - Password

The keyboard has a Master Password factory-set to "11111". No radio signal can be transmitted until the Master default Password hasn't been changed (see Fig. 1 for the replacement). If the Master Password remains the default one the following functions are allowed:

- Insertion of new User Codes;
- Cancellation of stored User Codes;
- Replacement of the Master key itself.

The Master Password and the User code can have up to 5 digits. If the chosen string is shorter than 5 digits, press the key "# " after the last digit to complete the number as indicated below:

- Example 1 : User code 123 : Digit 1,2,3, #.
- Example 2 : User code 1234 : Digit 1,2,3,4, #.

6 - Master Password replacement

" Bip - Bip "

Fig. 1

NOTE : A long "Biiiiip" of the buzzer means a wrong dialing

After 8 wrong dials of the master Password, the system disables the password and requests the dialing of the PUK code (Password Unblocking Key) (see Fig. 2). The procedure can be followed even if the Master Password is lost, in order to reset the security factory configuration.

7 - Master Password unblocking

" Biiiiip "

" Bip - Bip "

Fig. 2

Find your own PUK code on the product packaging.

8 - New user memorization procedure

Each user can access to the transmitter by dialing his own code. For this procedure you need to know the Master Password (see Fig. 3)

" Bip - Bip "

Fig. 3

NOTE : A long "Biiiiip" of the buzzer means a wrong dialing

9 - User cancelling procedure

Follow the following procedure to cancel a user code. In this case you need to know the Master Password and the User Code to cancel (see Fig. 4).

" Bip - Bip "

" Bip - Bip "

Fig. 4

NOTE : A long "Biiiiip" of the buzzer means a wrong dialing

10 - Transmission

For the transmission, first digit the User Code (put the Master Password) and then press the key to activate (1 , 2 , 3 , 4 , 5 , 6)

" Bip - Bip "

Fig. 5

During the transmission the LED blinks and the buzzer sounds a "bip - bip".

11 - Special functions

- ⊛ The key " * " cancel the dialing;
- ⊘ The key " # " repeat the last command (within 20 sec.)

The keyboard can transmit other 2 signals, different from the normal six signals of the keys (1 - 6).

"Tamper switch signal" : Where installed, the tamper is a switch with a NO command, which put the keyboard in transmission if its contact is released. If this happens, a tamper-type signal is transmitted when the following conditions occur:

- 1) When the tamper is released;
- 2) At every command key activation in tamper released state.

"Low Battery signal" : The low battery alarm activates the RF transmission when the battery level is under the configured value. The signal is sent at every command key activation.

12 - "Tamper" and "Low battery" signal memorization

The memorization of the special signals on the target receiver can be done as follows

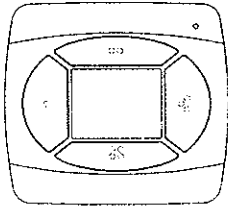
- Tamper Signal:** 1) Dial the Master Password 2) Press key "1"
- Low Battery Signal:** 1) Dial the Master Password 2) Press key "2"

GUARANTEE

The guarantee period of the product is 24 months, beginning from the manufacturer date. During this period, if the product does not work correctly due to a defective component, the product will be repaired or substituted at the discretion of the producer. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the producer's factory.

Wandfunkaster

CE 06780 SEC-0004



SETR 2641-TM

Vielen Dank für den Kauf eines unserer Funkprodukte.
Bitte lesen Sie vor der Inbetriebnahme die Bedienungsanleitung
um Installations- und Bedienungsfehler zu vermeiden

Der Wandfunkaster SETR 2641-TM ist ein AM/ASK Sender und arbeitet bei 433,92 MHz. Entwickelt zur Steuerung von Automationen mit Funksteuerungen und Funkempfängern.

Auf Grund der hohen Codierung unseres Rolling Code Systems (Keeloq ® Hopping Code), wird eine sichere Übertragung und höchste Störsicherheit sowie Scansicherheit gewährleistet. Ein spezieller Algorithmus verändert bei jeder Übertragung die Codierung. Der Wandfunkaster wurde speziell zur Steuerung unserer Funkmotorsteuerungen und Funkmarkisensteuerung vorgesehen, kann aber ebenso zur Steuerung aller Funkempfänger genutzt werden, wobei die einzelnen Tasten individuell eingelernt werden können. In Verbindung mit unserer Funk Rollladen und Markisensteuerung SEL2641-R433-RM besteht folgende Tastenfunktion des Wandfunkasters:

TASTE A : öffnen-stop-schliessen-stop

TASTE B : öffnen

TASTE C : stop

TASTE D : schliessen

Das Produkt entspricht den europäischen Normen 73/23/CEE 89/336/CEE, 99/05/CE

Technische Daten

Arbeitsfrequenz	433.92 MHz
E.r.p. power	150 µW
Modulation	AM/ASK
Sicherheits Code Combinationen	2 ⁴⁴
Spannungsversorgung	6 Vdc
Batterie	1 x CR 2032 lithium.
Current consumption	8,4 mA
Batterie Lebensdauer	2 Jahre
Gewicht	47 gr.
Abmessung	80 x 74 x 16 mm

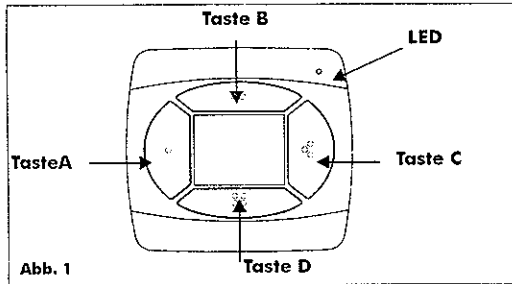


Abb. 1

Wandmontage

Suchen Sie sich einen geeignete Wandfläche ohne Metall . Kleben Sie beide mitgelieferten Klebestreifen auf die Rückseite des Wandfunkasters, entfernen Sie den Schutzfilm des Klebestreifens befestigen Sie den Taster durch festes Andrücken.

Befestigung mit Schrauben:

Öffnen Sie den Wandfunkaster mittels Schraubenzieher. Markieren Sie durch die Befestigungslöcher die Bohrungen. Bohren Sie zwei Löcher in die Wand, benutzen Sie zur Befestigung 4mm Dubel. Schrauben Sie nun die Halterung mit den mitgelieferten Schrauben an die Wand. Kasten Sie dann das Oberteil des Tasters wieder ein.

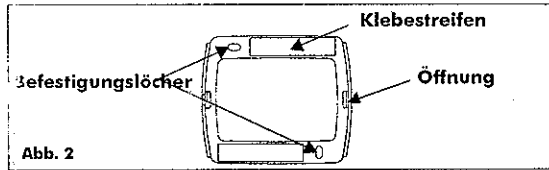
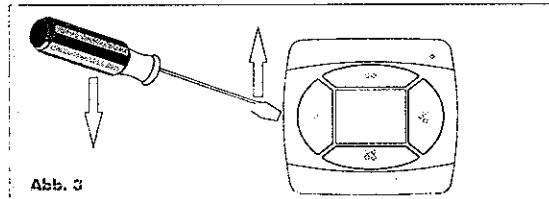


Abb. 2

Batterie Austausch

Wenn die LED-Anzeige blinkt, müssen die Batterien ausgetauscht werden, gehen Sie wie folgt vor:



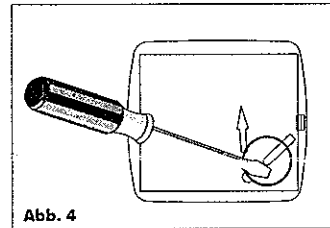
1. Öffnen Sie den Wandfunkaster mit einem Schraubenzieher, wie in Abb.3 beschrieben.

2. Entfernen Sie die Batterien, indem Sie den Schraubenzieher in den Schlitz des Kreises stecken und einen Halbkreis nach rechts drehen, nun können Sie die Batterieabdeckung abheben Abb. 4.

3. Legen Sie nun die neuen Batterien ein. Benutzen Sie nur CR 2032 Lithium.

4. Achten Sie darauf, dass die Polung der Batterien mit Plus nach oben gerichtet ist.

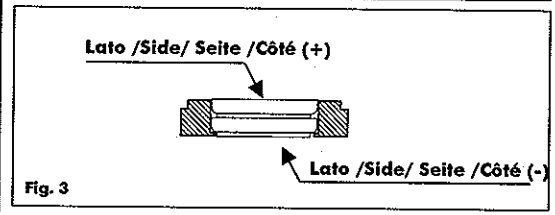
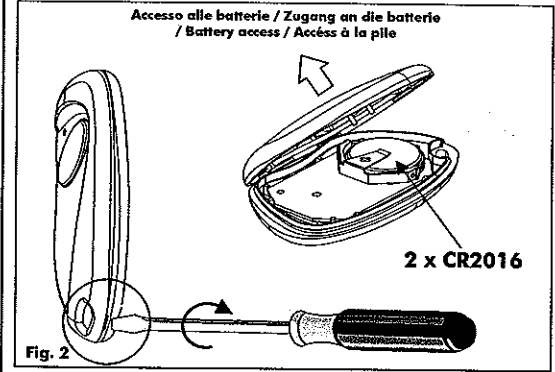
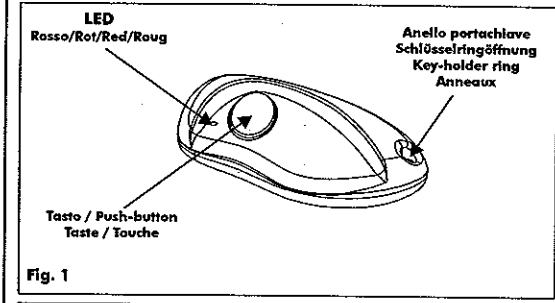
NOTE : Die Entsorgung der Batterien muss gesondert erfolgen.



Garantie

Herstellungsdatum . Die Garantie umfasst die Funktion der elektronischen Bauteile unter Voraussetzung des korrekten Anschlusses.

Die Garantie umfasst keine äußeren Beschädigungen am Gehäuse durch Fremdeinwirkung oder falsche Installation. Die Garantie wird beim Sitz des Herstellers geleistet.



TRANSMITTER SETR2641AM1

Product introduction

The radiocontrol SETR2641AM1 has been designed for the control of automatic closing systems and anti-burglar systems thanks to its very high security coding system. (Keeloq® Hopping code). The code sent by the transmitter changes at each activation, avoiding any scanning and copying risk. A special algorithm allows to keep synchronised transmitter and receiver. The operating frequency is among the European harmonised frequencies. The receiver which makes the activation, once received the transmitter code, has to be connected during the installation to the device to control (gate, garage door, rolling shutters, awnings, anti-burglar appliances, lighting). All the receivers of the same range 433 can store into the EEPROM a serial number, a manufacturer key and a synchronism algorithm of more transmitters. Each transmitter can be stored into different receivers and hence can do more functions. The product fully complies with the European Directives 99/5/CE, 89/336/CEE, 73/23/CEE, FCC Rules Part. 15.

Technical specifications

Number of keys:	1
Supply:	2 lithium batteries CR 2016
Battery life:	18 - 24 months
Current consumption:	9 mA
Operating frequency:	433.92 MHz
Code combinations:	2 ²⁴
Modulation:	AM / ASK
Rated e.r.p.:	80 - 100 µW
Range in free space:	100 - 200 m
Operating temperature:	-20 .. + 55 °C
Overall dimensions:	61 x 36 x 13 mm
Weight:	14 gr.

Coding

Each transmitter is manufactured and sold with a different univocal serial number set-in-factory. The real transmitted code is the result of a special algorithm which combines a serial number, a manufacturer key and a synchronisation number.

Memorization

The transmitter security code has to be stored onto the receiver or the receivers memory available. Your own installer or reseller will perform this operation during the installation or will give you the necessary instructions during the selling. Ask your installer the best suitable receiver.

Battery access

To access the battery open the case with a screwdriver acting on the slot between the cover and the bottom and remove the bottom, as shown in fig. 3a and 3b. Slide out the old batteries and replace them with the new ones [CR2016] respecting the polarity, with the positive (+) side upward.

NOTE: Please dispose of the batteries properly according to local laws and regulations.

Test proper battery installation by verifying that the red LED illuminates when the button is pushed.

Troubleshooting

Fault	Solution
The radio emission isn't verifiable The transmitter led is OFF.	Replace the transmitter batteries
The radio emission isn't verifiable The transmitter led is ON.	Check the receiver supply

Input impedance: 50 Ohm.
 Supply voltage: 12 or 24 V ac/dc.
 Current consumption: at rest: 25 mA
 with relay excited: 55 mA
 Number of relays: 2 (1 NO, 1 NO or NC).
 Commutable max power: 24W or 24VA.
 Max codes number: 85.
 Operating temperature: from -20 to +70 °C.
 Dimensions (Fig. 1): 105 x 45 x 28 mm.
 Weight: 65 gr.

1D - Main features

- Memory for 85 transmitter keys;
- Self-learning and erasing of the transmitter code simply using the transmitter keys, without accessing to the receiver board;
- Display of the transmitter key number;
- Display of the memory position for the last memorized transmitter;
- Overwrite of a transmitter code;
- Programmable operation of the relays: pulsing, latching and timed;
- Programmable delay of release for the relays from 1 sec. to 10 hours;
- Full memory cancellation.

1E - Receiver detail (Fig. 2)

LR: Red led LV: Green led
 PR: Red push-button PV: Green button
 RR: Red relay RV: Green relay

1F - Connections (Fig. 2)

Power-supply: terminals 1, 2: 12 Vac/dc Antenna: terminal 9 : shield
 terminals 1, 3: 24 Vac/dc terminal 10 : core. (RG 58)
 Relay Outputs: terminals 4,5 : NO contact (red relay)
 terminals 6,7: NO contact green relay
 terminals 6,8: NC contact green relay

2A - Transmitter memorizing

The code of each transmitter key can be memorized into the receiver in 2 different ways:

- A - Directly on the receiver, by using the receiver push-buttons PR or PV.
- B - Far from the receiver, by using the transmitter keys.

A) Direct memorization - To program a transmitter at the receiver.

- 1 - Select the relay to be programmed Green (PV) or Red (PR)
- 2 - Push desired relay key for 2 seconds or until LED comes on
- 3 - Within 2 seconds press desired transmitter key to store in receiver memory. LED light should blink and relay should cycle.

B) Remote programming mode: To program transmitters thru the use of a transmitter.

Note: To utilize this mode the receiver must first have at least one transmitter programmed into the receiver.

- 1 - Programming request - Push both keys of the transmitter that is already stored in the receiver until the receiver "beeps";
- 2 - Programming entry - Release both keys and immediately press A or B key to select the corresponding relay to be programmed and hold key for 4 seconds; The LED light of corresponding relay will turn on and "beep" will be continuous;
- 3 - Memorization - Within 2 seconds press new transmitter button to be memorized.

Example: Memorization of a second transmitter (TX2) with key A on relay red RR and key B on relay green RV into a receiver with a transmitter (TX1) already stored:

Push keys A+B of TX1 (bip); Push key A of TX1 for 4 sec. (Biiiiiiip); push key A of TX2 within 2 sec.
 Push keys A+B of TX1 (bip); Push key B of TX1 for 4 sec. (Bip, Bip, ...Bip); push key B of TX2 within 2 sec.

NOTE: The memory capacity is of 85 transmitter keys. That means that a 4 keys transmitter needs 4 memory positions. It is possible to display the memory position by following the procedure 2B. A transmitter key can be memorized on each relay RR or RV but not on both.

2B - Display of the transmitter memory position

By following the present procedure it is possible to display the position occupied by a given transmitter key.

- 1) Push the transmitter key for which it is necessary to know the memory position and verify the activation of the relay and the led.
- 2) Push the button PR of the receiver for 1 second. At this point begins a sequence of 7 total blinks of the two led lights LR and LV: by taking a note of what color light blinks, it is possible to obtain the memory position, according to the table 4:

Led blinks	1°	2°	3°	4°	5°	6°	7°
Green LED	1	2	4	8	16	32	64
Red LED	0	0	0	0	0	0	0

Tab. 4

Example: Transmitter blinks the following seven times after pushing the red relay (PR) key:

RED - RED - GREEN - GREEN - RED - RED - RED

This corresponds to the 12th position.

2C - Overwrite of an already stored Transmitter code

- 1 - Determine transmitter key memory position (see section 2B)
- 2 - Press corresponding relay programming key on transmitter for 4 seconds.
- 3 - Within 2 seconds press (PV)
- 4 - Within 2 seconds enter the transmitter memory position of existing transmitter by using (PR red) and (PV green) accordingly. There must be a total combination of seven button pushed (PV or PR) to match the memory position of existing transmitter.
- 5 - Within 1 second press the new transmitter key to be programmed. The previous transmitter key will be removed and replaced by the key pressed in step 5.

3A - Memory capacity display

This procedure allows to display the number of occupied memory positions.

- 1) Push the button PV of the receiver for 1 second. At this point the receiver begins a sequence of 7 lightings of the leds LR and LV. Referring to that it is possible to obtain the number of the occupied memory positions, according to tab.4.

3B - Memory full

When the receiver memory is full and a memorization procedure is started, both the leds LV and LR blink 3 times.

3C - Full memory erase

This operation is possible both with the transmitter keys (1) and with the receiver push buttons (2).
 1): Keep on pushed simultaneously the keys A and B of a TX whose codes are presents in the memory of the RX; the buzzer emits a bip and the leds turns on for a while; within 2 sec. keep on pushed the key A of the same TX for 4 sec.: the led LR is turned on and the buzzer sounds a long bip ("biiiiiiip").

Within 4 sec. (before the end of the long bip) push again simultaneously A and B for other 4 sec.; at this point will occur 3 blinks of LR and LV and 3 long blips of the buzzer ("biiiiip - biiiiip - biiiiip"). At the end of this operation all the codes TX present in the memory are erased.

2): Keep on pushed PR of the receiver until the red led LR is turned on. Afterwards, keep on pushed simultaneously PV and PR for 4 sec. The receiver will give the operation confirmation with 3 blinks of the leds and 3 long blips of the buzzer ("Biiiiip - Biiiiip - Biiiiip").

4A - Relay configuration display

Keep on pushed PR (or PV) of the receiver for 4 sec. The configuration of the relay is displayed by the corresponding led according the following table:

Relay operating mode (RR or RV)	Led light type (LR or LV)
Pulse relay	Continuous light
Latching relay	Slow blinking
Timed relay	Fast blinking

Tab. 5

4B - Relay programming

The receivers are factory set to Pulse mode. To change the mode follow these steps (Fig. 4) :
 1. Press desired relay button on receiver to be programmed (PV or PR) for 4 seconds. LED will illuminate displaying relay status. Use Table 5 to determine the status.
 2. Within 1 second press PR to change the relay mode. The relay mode will change according to the diagram of fig.4.

Not allowed configurations	Red relay RR	Green relay RV
	latching	timed
	timed	timed (with different delay times)

Tab. 6

4C - Relay RR (RV) configuration - Fig. 4

The operating mode of the relay is cyclic, with the possibility to change the mode according the following rules:

- If the relay is set as pulse: it becomes latching and after timed;
- If the relay is set as latching: it becomes pulse;
- If the relay is set as timed: it becomes pulse.

4E - Relay RR (RV) timing settings - Fig. 5

The modification for the relay settings, with the timing, can be done only if the relay has been set as pulse. Push the button PR (PV) of the receiver for 4 sec.; the led LR (LV) will turn on and will display the operating mode set for the relay RR (RV). If the led blinks slow or fast push again PR for 1 second and the relay will be set as pulse. Then push PR for 1 second and the led LR (LV) switches off. Afterwards, within 2 seconds, begin to insert the selected relay time, by pushing on the buttons PR and PV according to the Table 12 and considering that PR has weight of "0" while PV has weight "1".

NOTE: The last pressures on PR of the sequence are not necessaryes.

Example 1: 8 sec. delay: input the sequence: PR - PR - PR - PV - PR - PR - PR.

Example 2: 2 min delay: Input the sequence: PV - PR - PR - PR - PR - PR - PV.

GUARANTEE

The guarantee period of the product is 24 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at the discretion of the producer. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the producer's factory.

ENGLISH

A - Introduction
 The receiver type SEL2641 R433-IP (Fig. 1) is a superheterodyne single conversion receiver with integrated coding-code decoding. The demodulation is AM/ASK. A special algorithm allows to keep synchronized transmitter and receiver. The receiver which makes the activation, once received the transmitter code, has to be connected during the installation to the device to control (gate, garage door, rolling shutters, awnings, anti-burglar appliances, lighting, etc.). The transmitter memorization can be carried out either with 2 push-buttons of the receiver or far from the receiver with the keys of the transmitter. All the receivers of the range 433 can store into the EEPROM a serial number, a manufacturer key and a synchronism algorithm of more transmitters. The product fully complies with the European Directives 73/23/CEE, 89/336/CEE and with the regulation EN 60065.

B - Usable transmitters

- Series 024A type S2TR 2641 E2-E4-E2M : Transmitter 2/4 buttons/Master
- Series 433 type SETR 2641 AM2: : Transmitter mini 2 buttons
- Series 433 type SETR 2641 TM: : Wall Transmitter

C - Technical specifications

Receiver type: Superheterodyne.
 Demodulation: AM/ASK.
 Operating frequency: 433,92 MHz.
 Local oscillator frequency: 6,6128 MHz.
 Intermediate frequency: 10,7 MHz.
 Sensitivity (for good signal): -115 dBm.

2 - TECHNISCHE DATEN

Empfängertyp:	Superheterodyne
Modulation:	AM/ASK
Frequenz:	433,92 MHz
Frequenz des lokalen Oszillators:	6,6128 MHz
Zwischenfrequenz:	10,7 MHz
Empfindlichkeit (für erfolgreiches Signal):	-113dB
Eingangsimpedanz:	50 Ohm
Codespeicher:	6 Codes
Spannungsversorgung:	230 VAC
Schallleistung:	500 W
Codierung:	Rolling code
Betriebstemperatur:	20 bis + 70 °C
Abmessung:	80x80x50 mm
Gewicht:	380 gr.
Schutzgrad:	IP65

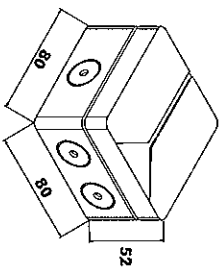


Bild. 1

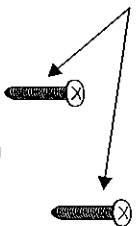
3 - LIEFERUMFANG

Der Empfänger besteht aus:

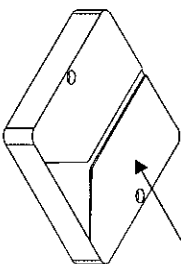
- 1 Gehäuse mit Empfängerplatine
- 1 Deckel
- 2 Schrauben
- 2 Gummildichtung.

Schraub

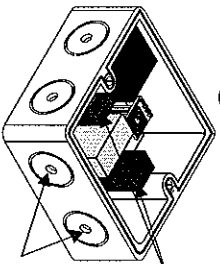
SEC-0008



Deckel



Gummildichtu



Klemmen

Kabelführu

Bild. 2

4 - INSTALLATION

4.1 - Positionierung

Die Positionierung des Empfängers ist für die Empfangsleistung wichtig um eine gute Funktion zu gewährleisten. Der Installationsort sollte nicht in unmittelbarer Nähe von Störquellen (z.B. EDV/Stromverteiler mit hoher Leistung) sein.

4.2 - Montagen

Empfängerdeckel entfernen.
Das Gehäuse mit Schrauben befestigen.

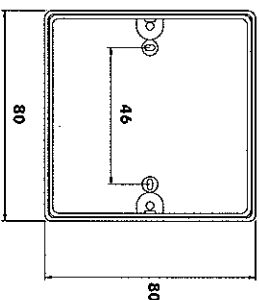


Bild. 3

Am Ende die Gummildichtung befestigen.

5 - ANSCHLÜSSE

VORSICHT! Das Gerät an die Netzleitung durch einen Magnetoterminalschalter mit 3 mm Öffnungskontakten anschliessen.

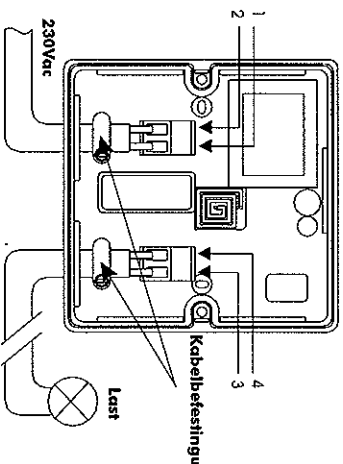


Bild. 4

Stromversorgung 230 Vac (Klemme 1,2)

- Last (Klemme 3,4)
- Klemme 1 = Ph Phase
- Klemme 2 = N
- Klemme 3 = Last
- Klemme 4 = Last

Die Anschlüsse sollen mit 8 mm Durchmesser Kabel durchgeführt werden.

6 - HANDSENDERSPEICHERUNG

! Der Empfänger speichert nur eine Taste für jeden Handsender.

Zur Handsenderspeicherung legen Sie den Handsender auf das Empfänger-Gehäuse und drücken Sie die Taste des Handsenders, bis wann die Last drei mal eingeschaltet wird. Die gleiche Prozedur für die andere Handsender (max 6).

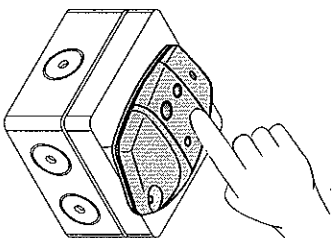


Bild. 5

SEC-0008a

SUMMARY

1- PRODUCT OVERVIEW

2- INTRODUCTION

3- TECHNICAL SPECIFICATIONS

4- MAIN FEATURES

5- INSTALLATION

- Locate the right position
- Fixing
- Connections
- Fuse

6- TRANSMITTER MEMORIZATION

- Example of a 2 keys transmitter memorization
- Example of a 4 keys transmitter memorization

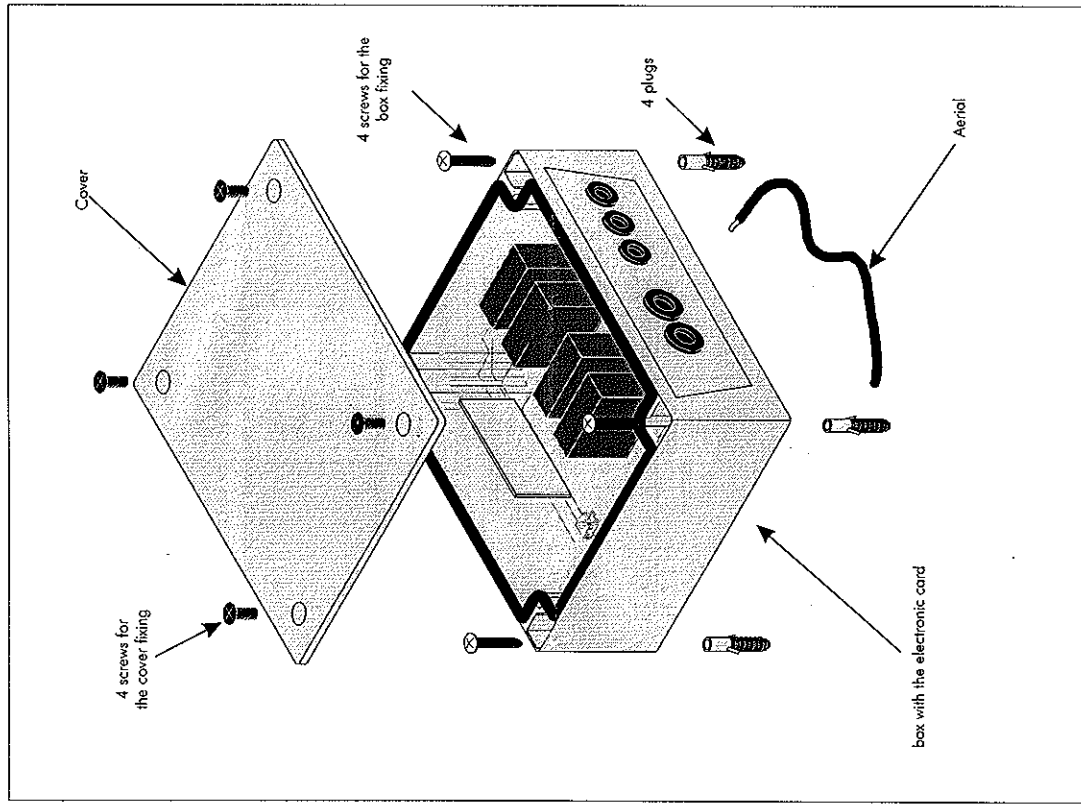
7- TRANSMITTERS CODE CANCELLING PROCEDURE

- Single transmitter cancelling
- Full memory cancelling

8- RELAY RL4 STEP OPERATING MODE

9- MEMORY SPACE DISPLAY

1- PRODUCT OVERVIEW



2 - INTRODUCTION

The power receiver is a superheterodyne receiver with 4 power outputs. It has been designed for the control of automatic closing systems and anti-burglar systems with maximum power on the relay contacts of 3,5 KW.

The decoding system can be different depending upon the model (Series "2641" with rolling code Keeloo and Series "39" with fixed code system).

The receiver has 2 output relays, with NO (Normally open) contacts and 2 relays with NO/NC (Normally open and normally closed) contacts. It can be connected to any type of appliance as gates, garage doors, rolling shutters, lighting, etc.)

The max power commutable is 3,5 KW @ 230 Vac for each relay. The user codes can be memorised both with the receiver buttons and, via radio, in self-learning, using the transmitter keys.

The receiver is produced in 8 different versions with different power supply, frequency and decoding system:

RX Type	Power Supply	Security system	Frequency
SEL 2641 R433 C4P	12 / 24 Vac-dc	Rolling code	433,92 MHz
SEL 2641 R433 C4V	230 Vac	Rolling code	433,92 MHz
SEL 39 R433 C4P	12 / 24 Vac-dc	3Exp9	433,92 MHz
SEL 39 R433 C4V	230 Vac	3Exp9	433,92 MHz
SEL 39 R27 C4P	12 / 24 Vac-dc	3Exp9	27,195 MHz
SEL 39 R27 C4V	230 Vac	3Exp9	27,195 MHz
SEL 39 R30 C4P	12 / 24 Vac-dc	3Exp9	30,875 MHz
SEL 39 R30 C4V	230 Vac	3Exp9	30,875 MHz

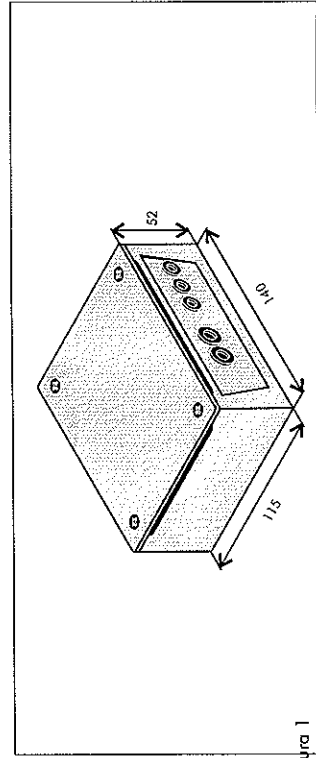
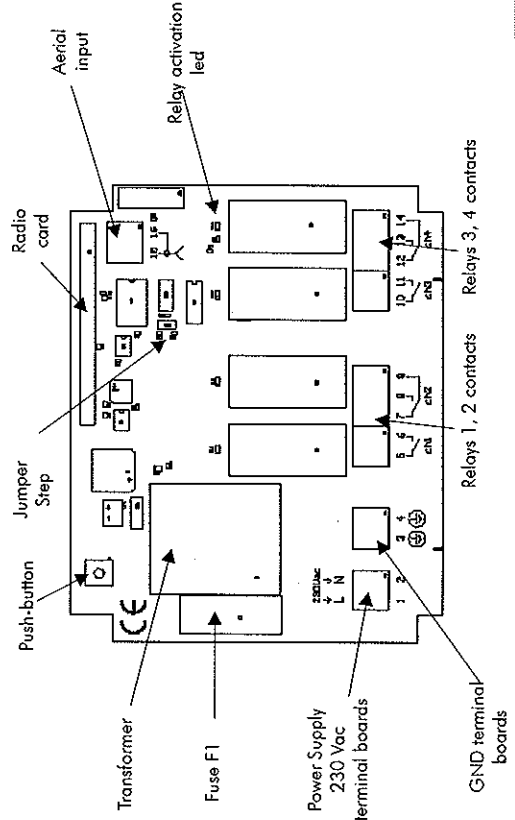


Figura 1

3 - TECHNICAL SPECIFICATIONS

Vac-dc	Common specifications	Supply. 230Vac	Supply. 12/24
Receiver type	Superheterodyne	Superheterodyne	Superheterodyne
Modulation	AM/ASK	AM/ASK	AM/ASK
Input load	50 Ohm	50 Ohm	50 Ohm
Local oscillator emissions	< -57 dBm	< -57 dBm	< -57 dBm
Supply voltage	230 Vac	230 Vac	12 - 24 Vac-dc
Current consumption (max.)	28 mA	28 mA	200 mA @24 Vac
Max relays contact power	3,5 KW / 230 Vac	3,5 KW / 230 Vac	260 mA @12 Vac
Operating temperature	-20°/+70°C	-20°/+70°C	-20°/+70°C
IP grade protection	IP44	IP44	IP44
Dimensions (mm)	140 x 115 x 52	140 x 115 x 52	140 x 115 x 52
Weight	420 gr	420 gr	310 gr
Transmitters Memorization	selflearning	selflearning	selflearning

Single radio specifications	SEL2641R433	SEL39R433	SEL39R30
Carrier frequency (MHz)	433,92	433,92	27,195
Local oscillator frequency	6,6128	6,6128	30,420
Intermediate frequency	10,7 MHz	10,7 MHz	455 KHz
Channel width	> 25 KHz	> 25 KHz	12,5 KHz
Input sensitivity	-117 dBm	-117 dBm	-113 dBm



4 - MAIN FEATURES

- 85 / 100 transmitter keys memory
- Self-learning and cancellation of transmitter code with 1 push-button
- Display of the number of the stored transmitters
- Cancellation either of the single transmitter or of the full memory
- Programmable operating mode for the fourth relay RL4 : pulse or step.

5 - INSTALLATION

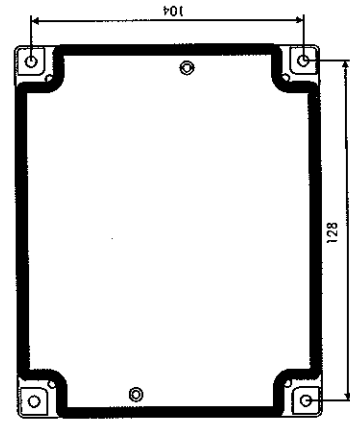
The appliance has been manufactured in compliance with the European Directives 89/336/CEE, 73/23/CEE, 99/5/CE and with the Regulation EN 60335-1.

5.1 - Positioning

The location choice is very important for the best result of the installation. The following conditions have to be followed:

- Fix the receiver far from interference sources as informatic systems, alarm systems or other radio emissions.
- the distance between 2 receivers should be more than 1.5 m.

Fig. 3



5.2 - Fixing

Remove the cover of the receiver; fix the box in each corner by using the screws and the plugs supplied.

5.3 - Connections

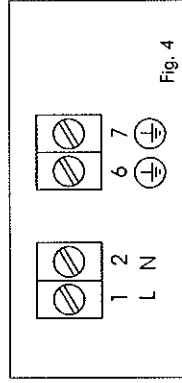
The connections are different upon the model.

1A- Connect the Mains 230 Vac to the corresponding terminal boards (fig. 4):

- terminal 1 = L Line
- terminal 2 = N neutre
- terminals 6 and 7 = PE Gnd

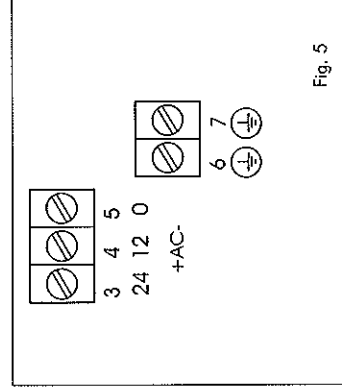


ATTENTION: Connect the appliance to the electric plant of the building through a magnetothermal switch with contact distance of at least 3 mm.



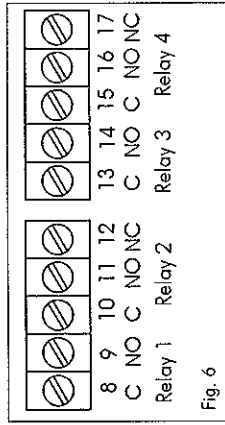
1b - Connect the supply at 12 or 24 Vac/dc to the terminal boards 3, 4, 5. (fig. 5):

- terminal 3 = + 24 Vac/dc
- terminal 4 = + 12 Vac/dc
- terminal 5 = 0



2 - Connect the output relays contacts to the corresponding terminals (Fig. 6):

- terminal 8 = C relay 1 (R1)
- terminal 9 = NO relay 1 (R1)
- terminal 10 = C relay 2 (R2)
- terminal 11 = NO relay 2 (R2)
- terminal 12 = NC relay 2 (R2)
- terminal 13 = C relay 3 (R3)
- terminal 14 = NO relay 3 (R3)
- terminal 15 = C relay 4 (R4)
- terminal 16 = NO relay 4 (R4)
- terminal 17 = NC relay 4 (R4)



3 - Connect the antenna as follows (fig. 7):

if you want to use an antenna, (not supplied), connect the shield to the terminal 18 and the net to the terminal 19, otherwise if you use the antenna cable supplied, connect it to the terminal 19.

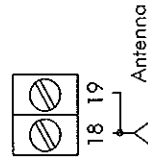


Fig. 7

5.4 - Fuse

The fuse F1 is only present on the receivers supplied at 230 Vac. The fuse F1 of 315 mA needs for the electronic card protection.

6 - TRANSMITTER MEMORIZATION

The transmitter memorization is carried out sequentially using the push-button P1. The system gives the operation confirmation with the led DL1, DL2, DL3, DL4 located above the corresponding relay.

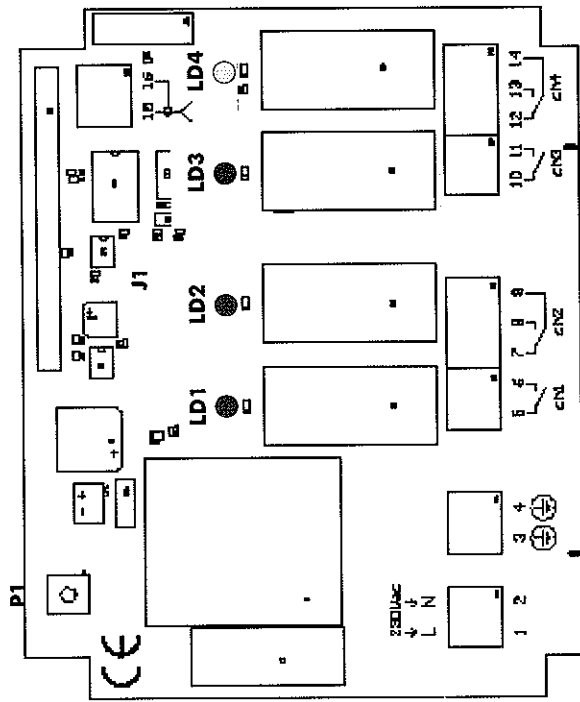


Fig. 8

The lighting of the leds LD1, LD2, LD3, LD4 is cyclic: at every pressure of P1 a led is turned on and the preceding led is turned off. The led DL4 is turned on continuously or flashes according to the configuration of the jumper J1 (see. cap. 8)

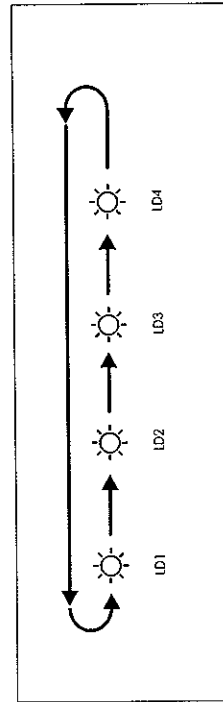


Fig. 9

6.1 2 channel transmitter memorization

The procedure is effected with some pressures of the push-button P1.

Example 1 : Memorization of a 2 channel transmitter with the key A that activates the relay 1 and the key B that activates the relay 2.

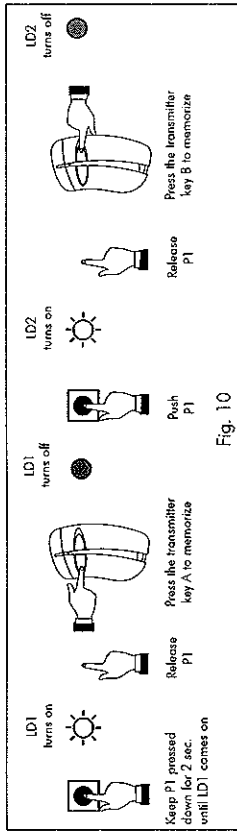


Fig. 10

6.2 4 channel transmitter memorization

The procedure is effected with some pressures of the push-button P1.

Example 2 : 4 channel transmitter memorization with the following connections between transmitter-key and receiver relay

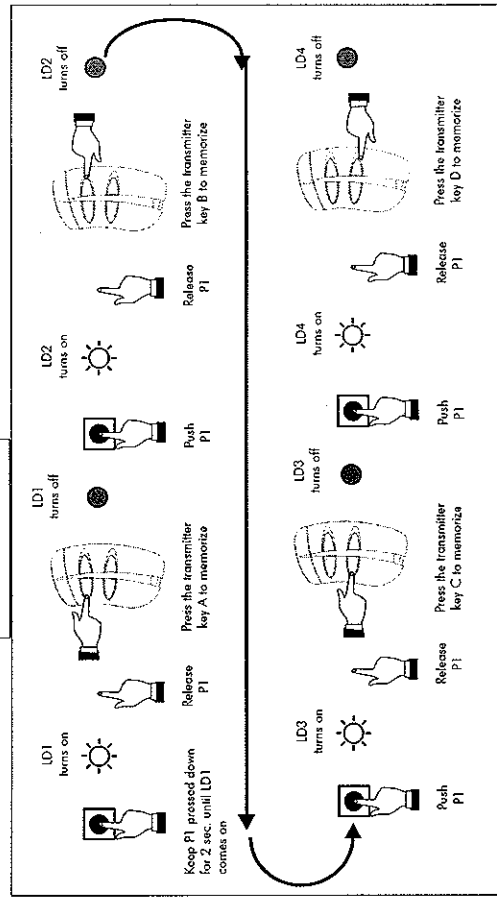
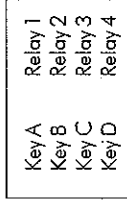


Fig. 11

7 - TRANSMITTERS CODE CANCELLING PROCEDURE

7.1 Single transmitter cancelling

Keep P1 pressed down for 2 sec. until the led corresponding to the relay associated to the key remains lit.

Next push the transmitter key to cancel (example Key A) ; the receiver gives the confirmation by turning off the led and with 2 flashes of both the led LD3 (Red) and LD4 (Green).

Example 3 : Cancellation of the transmitter key A from the relay 1.

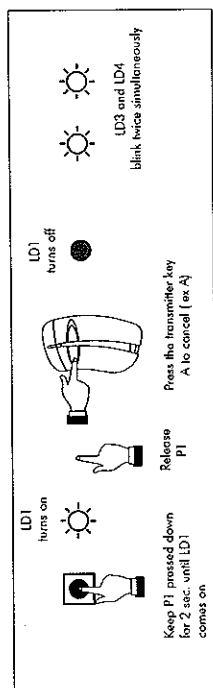


Fig. 12

7.2 Full memory cancelling

Keep P1 pressed down for 2 sec. until LD1 comes on. Release and within 2 sec. keep P1 pressed down until LD3 and LD4 blink 3 times simultaneously.



At the end of the procedure all memory data will be cancelled.

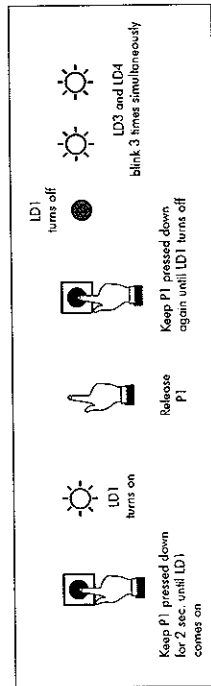


Fig. 13

8 - RELAY RL4 STEP OPERATING MODE

RL4 can operate in step-mode according to the position of jumper J1 (see figure 2 below). In step mode, during the memorization and cancellation phases, LD4 blinks instead to remain lit



Fig. 14

9 - MEMORY SPACE DISPLAY

With this procedure it is possible to display the number of transmitter keys memorized. The display is carried on with the led LD3 (Red) and LD4 (Green).

Push P1 for 1 sec.

At this point begins a sequence of 7 total blinks of the two led lights LD3 and LD4; by taking a note of what color light blinks, it is possible to obtain the memory position, according to the following table:

Led blink number	1	2	3	4	5		
6	7						
Green Blink (LV)	1	2	4	8	16	32	64
Red Blink (LR)	0	0	0	0	0	0	0

Tab. 1

Example 4:

Transmitter blinks the following seven times after pushing the button P1 :
RED - RED - GREEN - RED - RED - RED - RED
 Then one would fill in table 1 as follows:

Led blink number	1	2	3	4	5		
6	7						
Green Blink (LV)	1	2	4	8	16	32	64
Red Blink (LR)	0	0	0	0	0	0	0

This corresponds to the 12th position.