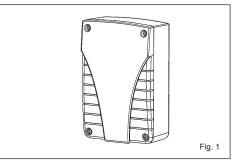


Introduction



F1001000094

RECEIVER SEL128R433-WPL



The type SEL128R433-WPL (Fig. 1) is a very high security superheterodyne receiver with GFSK demodulation.

The high degree of security is ensured by a 128-bit serial number, with a AES128 encryption and by a proprietary "rolling code algorithm" that avoids the risk of the scan and the subsequent retransmission of the code copied. A special system keeps aligned transmitter and receiver.

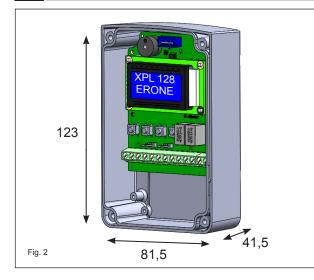
An innovative feature allows to set up the autostore capability of a new transmitter using a remote control already in memory, which enables it by proximity.

This avoids to access the receiver for memorizing a new remote control.

The equipment is manufactured in accordance with the European Directives 2014/53/EU and to the Standard EN 60950-1.

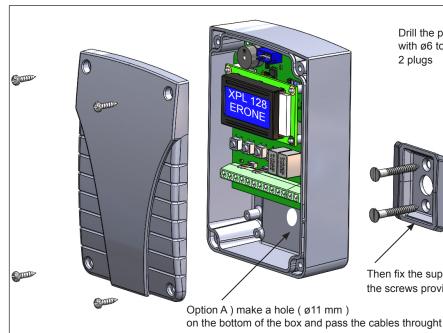
The full text of the EU declaration of conformity is available at the following internet address: www.erone.com

Technical Specifications

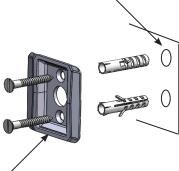


Operating frequency	433,92 MHz
Demodulation	GFSK
Sensitivity (for good signal)	115 dBm
Power supply:	12/24 Vac/dc
Current consumption (@12 Vdc)	from 25 to 50 mA (max)
Encryption	AES128 bit
Wiegand protocols supported	26 - 30 - 44 bit
Memory capacity	500 s/n
Relays	2 x 24 VA - max 48Vdc
Relay operating mode	pulse , step, delayed
Delay	from 1 sec. to 23 h : 59 min
Retransmission period over wiegand bus	from 100 mS to 2 Sec.
Relay pulse	300 mS
Operating temperature:	10 ÷ +60°C
Enclosure IP protection:	IP55
Dimensions:	120 x 80 x 40 mm
Weight	65 gr.

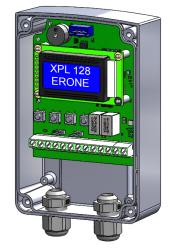
Mounting



Drill the placing surface with ø6 tool and insert the 2 plugs



Then fix the support with the screws provided

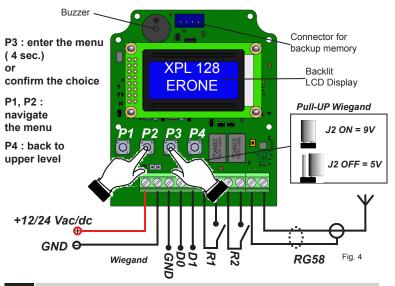


Option B) Use of PG7 cable glands (not provided)

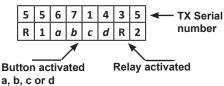
Fig. 3



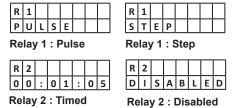
Layout, Wiring & Display Legend



Example 1: TX reception



Example 2: Status of the relays



Delay setting

h	h		m	m		s	s]
0	0	:	0	0	:	0	1	',

The factory value for the timing is 1 sec. Use P1 to scroll the digits and P2 to confirm

Compatible transmitters

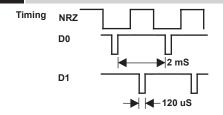
Erone - S3TR128E2, S3TR128E4

Warnings

The receiver allocation is very important for the best operation of the system. Place the receiver far from interference sources such as big magnetic fields or radio emissions. The installation and the positioning of the antenna is very important as well. Before installing the antenna it's advisable to make some tests on the site.

- The equipment must be powered from a device that provides a safety extra low voltage (SELV) type LPS (Low Power Source);
- There must be a suitable disconnecting device to the current drawn by the receiver (90 mA max @ 12Vdc).

Wiegand protocol



TX Button encoding

Button A	0001
Button B	0010
Button C	0100
Button D	1000

Frame architecture 30 bit

P1	Button	TX serial number	P2	
----	--------	------------------	----	--

P1 = Parity even calculated over the first 14 bit : First bit coming out Button = 4 bit; Serial Number = 24 bit

P2 = Parity odd calculated over the last 14: Last bit coming out

Frame architecture 26 bit

P1 Button	TX serial number	P2
-----------	------------------	----

P1 = Parity even calculated over the first 12 bit : First bit coming out Button = 4 bit; Serial Number = 20 bit.

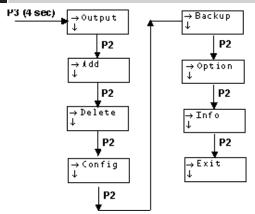
P2 = Parity odd calculated over the last 12 bit: Last bit coming out

Frame architecture 44 bit

0000 But	ton TX serial number	CRC
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Button = 4 bit: Serial Number = 32 bit CRC = 4 bit

Programming / Navigation menu



For all the options, use P3 to confirm P2 / P1 to scroll Info wiegand: display the bit architecture and the delay, the TX button filter (down / up) and P4 to return to upper level

Output: select the type of output: relay or wiegand

Add: Add transmitters s/n to relay individually or by block

Delete TX: Delete a single transmitter, the button of a transmitter, a transmitter from a list, all transmitters, reset the receiver to factory default.

- Set relay operating mode (pulse, step, timed, disable)
- Set relay delay time
- Set wiegand format, delay & button filter

Backup to: data backup to an external memory Restore from : data restore from an external memory

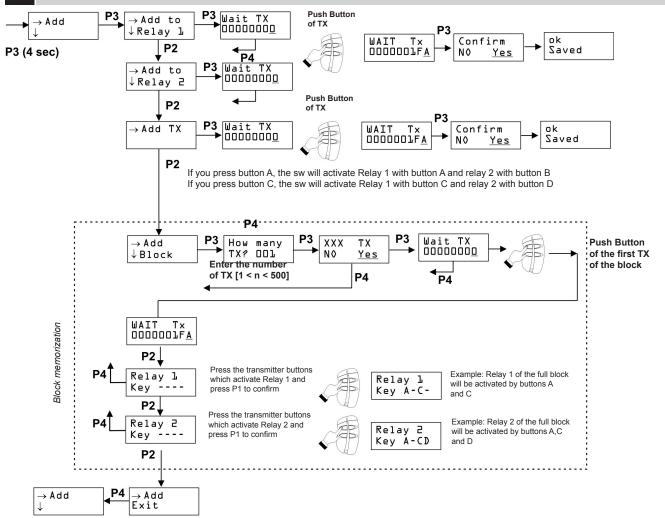
Option: Autoinstalling function OFF: Autoinstalling disabled

ON: Autoinstalling limited to 15 attempts (see chapter 13)

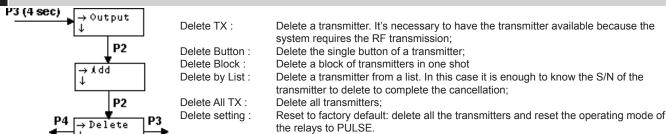
Info relays: Display operating mode of the relays, number of Tx memorized, the of Transmitters, the SW release.



9 Menu Add

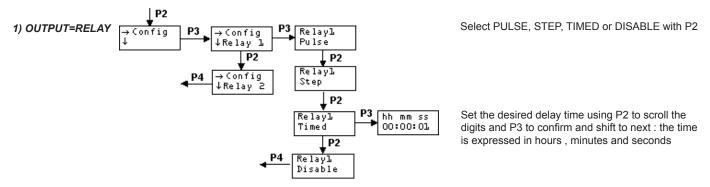


10 Menu Delete



11 Menu Config

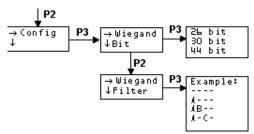
It changes options according to the first choice: **OUTPUT=RELAY** or **OUTPUT=WIEGAND.** It allows to set the operating mode of the relays R1, R2, as Pulse, Step or Timed. In case of Timed it's possible to set the delay time from 1 sec. to 24h: 59 min.





11 Menu Config (follows)

2) OUTPUT= WIEGAND



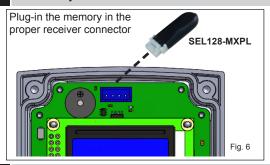
Bit: Set the desired bit number of the wiegand architecture 26, 30 or 44 bit

Filter: If this parameter is not specified (value shown = "- - - -") the wiegand signal exits always, for any button of the remote control activated.

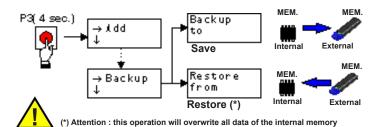
If a value is entered, example ("A - - - "), the signal wiegand exits only if has been pressed the button A of the remote control. In this way the receiver acts as a filter, accepting only the buttons selected of the transmitter. Entering ("A B C D") all the buttons are enabled.

NOTE: The S/N of the transmitter (and the button information) is forwarded on the wiegand bus <u>only</u> if the transmitter has been memorized (ref. ADD option in the menu) . *Without any memorization the wiegand signal is disabled.*

12 Backup / Restore



Allows to create a backup of the memory data base and save it onto an external memory (fig. 6). The data-base saved or restored includes the configuration settings.

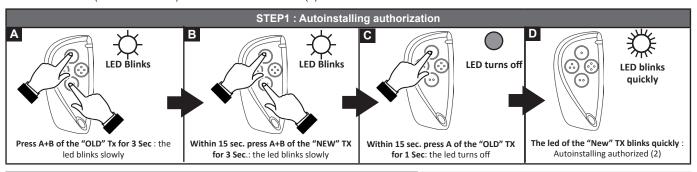


13 Option

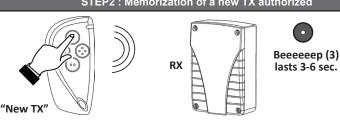
The menu Option allows to enable (ON) or disable (OFF) the "Autoinstalling feature": adding a new transmitter without accessing to the receiver. You need to use a transmitter already memorized for authorizing the autoinstalling function on a new unit.

NOTE: At least one transmitter must be memorized in the receiver.

Take 2 transmitters ("old" and "new") and hold next each other. (1)



STEP2 : Memorization of a new TX authorized

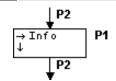


Once the new transmitter has been authorized, stand next to the receiver and **press button A** for **1 sec.**: the buzzer of the receiver makes a **long beep**: at the end the transmitter has been memorized and it can activate the RX

NOTES

- (1): The "old" transmitter must be already memorized in the
- (2): The autoinstalling feature, if enabled on the receiver (Option=ON), is limited to 15 attempts.
- If you press any button of the new transmitter out of the reception range of the receiver more that 15 times, the autoinstalling property stops and the procedure must be repeated.
- (3): The beep of the receiver confirms the memorization: it will take 3-6 sec. to happen according to the number of transmitters stored.

14 Info



Info Out :

Info N. Users : Info List : Info Version : Display the output
Display number of Tx memorized

List of Transmitters
SW release.

According to the first choice you can get the following information:

OUTPUT = RELAY
Rx = Mode
Rx = Delay (if delayed)

OUTPUT = WIEGAND
Wiegand = N° Bit
Wiegand = filter

GUARANTEE

The warranty period for this 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 our discretion. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the factory.



IS-W128ERUK Rev.2 - 19/1/2018

Manufactured by: CDVI WIreless SPA - Via Piave, 23 - 31020 S.Pietro di Feletto (TV) - Italy

Tel: +39-0438-450960 - Fax: +39-0438-455628 web: www.erone.com - email: info@erone.com