



CONTROLLER 4

RADIO REMOTE CONTROL 4 OUTPUTS

USER AND MAINTENANCE MANUAL



WARNINGS

This manual is an essential part of the device and it should be thoroughly kept for later consultation. Carefully read the warnings contained in this manual, concerning safety and a proper preservation of the product. These warnings are always to be carefully read before using the device. SISTEMATICA S.p.A. declines all responsibility for any trouble arising from the non-compliance with these warnings.

- DO NOT TRAVEL WITH THE DEVICE SWITCHED ON
- CONNECT THE SYSTEM ONLY TO THE VEHICLE'S BATTERY
- BEFORE CARRYING OUT ANY MECHANICAL MAINTENANCE OPERATION (WELDING) ON THE VEHICLE, DISCONNECT THE BATTERY CLIPS.
- AVOID ATTEMPTING TO REPAIR THE DEVICE BY YOURSELF. REPAIRS PERFORMED BY UNSKILLED PEOPLE CAN CAUSE SERIOUS DAMAGES OR FAILURES. FOR ASSISTANCE, APPLY TO YOUR LOCAL AUTHORIZED SERVICE CENTRE. USE ONLY ORIGINAL SPARE PARTS.
- ALWAYS KEEP AT A SAFE DISTANCE FROM THE MOVING PARTS.



TECHNICAL FEATURES

- Manufacturer: SISTEMATICA S.p.A.
- Dimensions: 80x75x55
- Outputs number: up to 4
- IP protection: IP67
- Operating temperature: $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Power supply voltage: $12/24\text{ V} \pm 10\%$
- Current consumption: - 18 mA at 12 V
- 14 mA at 24 V
- Max current per channel: 5 A
- Max total current: 20 A
- Communication interface (when applicable): CAN BUS
- 8 bit microcontroller
- Reverse battery protection
- Internal antenna

SYSTEM CODING

Coding the system is an operation that is only necessary when the receiver has to be replaced or you want to use it with a different SISTEMATICA radio remote control from the one it is coupled with at the time of purchase.

For a correct coding procedure, perform the following steps:

1. Disconnect the power to the receiver;
2. Open the receiver box, by unscrewing the 4 screws fixed on its top;
3. Locate and press the coding pushbutton on the receiver board (blue button – fig. 1);
4. Put power into the receiver by keeping the coding pushbutton pressed for 3-4 sec.; the yellow led on the receiver board flashes two time per second; so release the coding pushbutton;
5. Press any 3 keys at the same time on the transmitter within 15 seconds since it has been switched on (also more time if it is necessary; the yellow led stop to blink);
6. At this time, the transmitter is codified with the receiver; check all the system function by trying the movements of the system;
7. Close the receiver box.

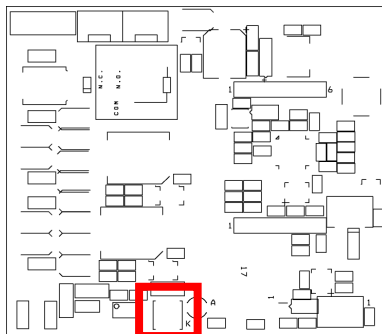


Figure 1. Coding pushbutton

WIRING DESCRIPTION

The standard wiring is composed of a cable of length $L=1\text{mt}$ with a termination in the receiver on one side and free cables on the other side

COLOR	FUNCTION
GREEN	EV 1
YELLOW	EV 2
GRAY	EV 3
PINK	EV 4
RED	+ ALIMENTATION
BLACK	- ALIMENTATION



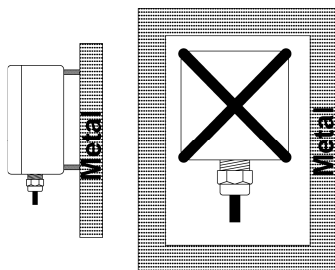
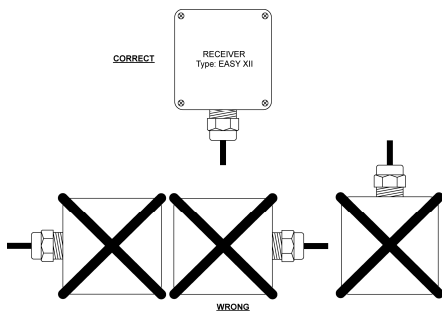
POSITIONING OF THE RECEIVER UNIT, DIMENSION AND DRILLING TEMPLATE

For a proper functioning, locate the receiver type CONTROLLER 4 with the cable output downwards, as shown in the picture below:

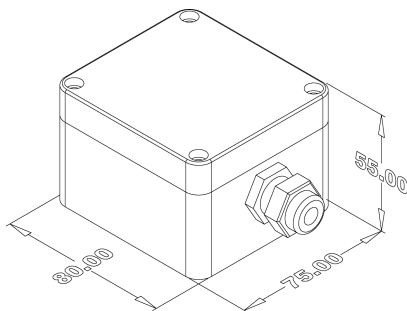


The receiver is provided with an integrated antenna; be sure to locate it at sight, not inside any metal box or screened by ferrous masses (ex. Protection carter...)

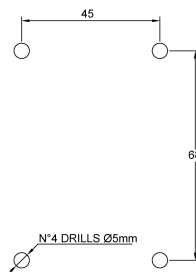
POSITIONING OF THE CONTROLLER 4



RECEIVER DIMENSION



DRILLING TEMPLATE DIMENSION



FUSE REPLACEMENT

The system is automatically protected from power overload and from possible short-circuit on corresponding outputs. For further protection is also provided an internal fuse within the box. For replacing the damaged fuse, please proceed as follows:

1. Disconnect the power to the receiver;
2. pen the receiver box, by unscrewing the 4 screws fixed on its top;
3. Locate the damage fuse on the receiver board;
4. Take the damaged fuse out of its holder and insert the new fuse (F1= 10 A);
5. Put power into the receiver; to check that the fuse has been correctly replaced, try one or more movements of the system;
6. Close the receiver box.

PRODUCT IDENTIFYING LABELS

000000

Internal label



External label

nnnnn: product model

S/N: product serial number

Cod.: product identification number



Removal of the identifying labels entails lapin of the guarantee conditions and the responsibility of SISTEMATICA S.p.A. with respect to component bodies



PROBLEM IDENTIFICATION AND SOLUTION

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The system does not respond to the controls	Absence of power in the receiver unit	-Check that the emergency mushroom button on the transmitter (if present) is in the release position. -Check that the vehicle batterie is correctly connected to the receiver unit -Check that the fuse inside the receiver unit is intact, and if it is not, replace it (see "FUSE REPLACEMENT")
	Incorrect connection of the cabling to the utilities	-Check the cabling to indicators, electro-valves etc.
	Incorrect installation of the receiver	-The receiver must not be shielded by ferrous masses (see "POSITIONING OF THE RECEIVER UNIT")
	Incorrect replacement of the batteries	-Check that the batteries have been inserted correctly; if necessary replace them (see "REPLACEMENT THE BATTERIES" on the manual of the transmitter combined)
	System not coded	-Re-code the system (vedi "CODIFYING THE SYSTEM")
	Blown fuse	-Replacement of the fuse on the receiver board (see "FUSE REPLACEMENT")
The GREEN led on the remote control does not light up when a key is pressed	Flat batteries	-Replacement of the transmitter batteries (vedi "REPLACEMENT THE BATTERIES" on the manual of the transmitter combined)
	Batteries almost flat	
The system responds to the controls in a discontinuous way	Using the transmitter beyond its maximum range	-Keep to a distance $\leq 120m$ from the receiver
	Connection to the battery and to the utilities made with cables of unsuitable section or lenght	-Check that the connection to the battery and the utilities are made with cables of suitable section and lenght

CE MARK

CE 0051

CE Declaration of conformity for Sistematica S.p.A. products can be required at: info@sistematica.it

! This product may be subjected to usage restriction. Please contact info@sistematica.it for any further questions.

FCC STATEMENTS

These devices complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) these devices may not cause harmful interference and
- (2) these devices must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to these equipment. Such modifications could void the user's authority to operate the equipments.

SISTEMATICA S.p.A. Grantee Code: O8I

SISTEMATICA S.p.A. **((RTX))**
Manta - Italy 915.2MHz - 918MHz

CNTR4 S/N: **000000**

Cod.: **nn000RnX.SIS-nn000**

12-24 Vdc, 10A max

FCC ID: O8I**CONTROLLER4**

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TRENDRTX label example
FCC ID: O8I**CONTROLLER4**