



USER MANUAL



**Installation instructions
and use of the device JK series with receiver RELAY output
model H / HS / HM**

Index

- Warnings.....	3
- Preventive maintenance.....	4
- Radio control installation.....	6
- Transmitters description.....	8
- Receivers description and wiring diagram.....	10
- Usage information.....	14
- START PIN mode.....	15
- Frequency change and TX-RX copy.....	16
- Master & Slave Option	18
- Troubleshooting.....	19
- Technical data.....	20
- Transmitter and Receiver combination equipment.....	22
- Warranty and service.....	23
- EC Declaration of conformity.....	24

Warnings

Carefully read the instructions contained in this manual before proceeding with the installation and use of radio control.

Failure to follow the procedures described in this manual, it may cause damage to people and property. Do not use the transmitter as spare parts for other remote controls.

It is recommended to comply with the laws in force concerning safety and prevention of accidents at work. It 'also need to always observe all applicable regulations regarding the use of the remote control of industrial machinery.

Wis not responsible for the application and use of the remote control outside the regulations.

Risk analysis

Qualified personnel, should carry out a thorough risk assessment of the machine connected to the transmitter assuming full responsibility.

W disclaims any liability arising from an erroneous assessment of the risks.

Any loss of communication between the transmitter and receiver caused by noise or interference, must determine the automatic shutdown of the remote control as required by clause **9.2.7.3 EN 60204-32**. Therefore, in the case in which this condition occurs, it is necessary to perform a new start-up procedure of the remote control and the machine connected to it.

Applications

The remote control system is widely used in the lifting and transport sector at the edge of building cranes, hoists, cranes, concrete pumps, etc.

However, you can also use it for many other applications, as long as they are always observe the safety conditions described in this chapter.

The remote control can only be used in the presence of suitable electrical and climatic conditions, as specified in this manual. It's also strictly prohibited to use the remote control in explosive environments or that require explosion-proof features.

The appliance installation, must be performed by qualified personnel according to the applicable regulations.

Preventive maintenance

Before proceeding with any maintenance, power down both receiver and equipped machine and remove the batteries from the transmitter.

- Do not expose to heat sources
- Do not expose directly to the sun for long periods
- Do not soak in the water
- Do not wash with high pressure jets
- Avoid contact with oils or solvents
- In case of opening, reclose the casing paying particular attention to the gasket sealing

In order to keep the device in conditions of maximum efficiency and safety, it's necessary to periodically perform cleaning and control operations. Clean using a simple brush and a damp cloth and avoid the use of alcohol, solvents or harsh cleaners which may damage the casing itself.

Periodic maintenance by the user

Periodically clean the outside of the transmitter in order to avoid build up of debris or dirt may impede the smooth operation of buttons.

Check with particular attention to the functionality of the STOP button.

Remove any oxide from the contacts of the batteries and check that the constituent parts of the radio control (casing, buttons, etc..) for cracks or other signs of breakage and failure. Also check all the rubber parts such as buttons, gaskets and bellows for cracks or tears.

In case of damage of one or more constituent parts of the appliance, it's necessary to proceed to their replacement in a timely manner so as to prevent the penetration of liquids or substances could impair the safety and the good functioning.

Periodic maintenance by qualified personnel

After about a year of use, the unit must undergo a general inspection by technicians who will perform the following steps, **paying special attention not to come into contact with live parts of the receiving unit:**

- Check the tightness of the seals of transmitter and receiver casing
- Check the tightness of cableglands
- Check fixing screws and tightness of terminals and connectors
- Check mounting of the electronic boards and various components
- Remove any traces of dirt and moisture inside the enclosures
- Check the operation of all controls
- Verify proper operation of the STOP circuit (by pressing the STOP button, the STOP relays in the receiver will be deactivated)
- Replacement of any faulty or damaged parts with original parts, so as not to affect the characteristics of safety and the proper functioning of the device

Pay particular attention to the closing of the transmitter housing, in order to avoid the risk of possible ingress of dust or moisture.

Radio control installation

The installation of the radio control, must be carried out only by qualified personnel.

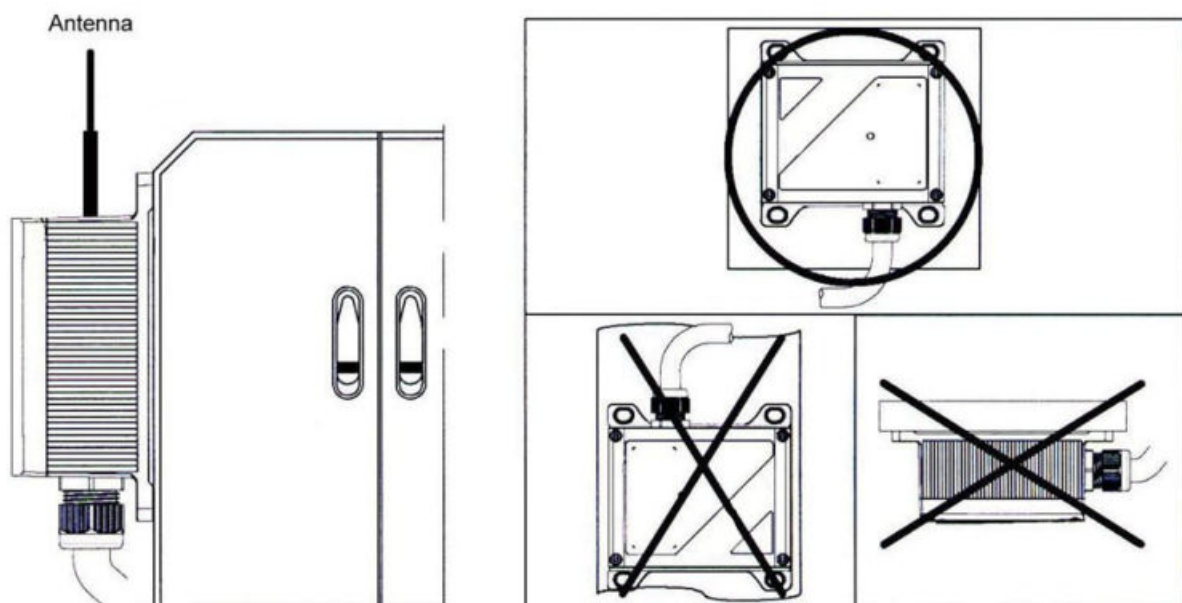
The receiving unit, must be positioned so that the antenna is visible from the area where the transmitter is used and in a place free from electromagnetic shielding. it's advisable to avoid the installation of the receiver on metallic surfaces that may reduce the operating range of the device.

Do not attempt to bypass the security systems of the machine equipped with the remote control and follow all instructions provided by the manufacturer thereof.

Do not install the receiver unit in position too high relative to the ground (10 or 20m) in order to prevent that reception of environmental radio signals, could compromise the correct operation of the appliance.

Install the receiver in vertical position and with the cable facing downwards so as to prevent any water infiltration.

In the presence of strong vibrations, install the receiver using the appropriate anti-vibration mounts.



Electrical connection of the receiver

Make sure that during installation, the receiver and the machine connected to it, remain unpowered.

The power supply of the receiver, must be taken downstream of the main switch of the machine.

It's forbidden to connect the power supply of the receiver, directly to the distribution network and the main disconnect switch, must be provided with a suitable device (padlock) to prevent unauthorized power-on.

The electrical connection between receiver and machine, must be removable and in case of direct connection to the terminal block on the remote control, it must be employed a connector that allows if necessary, to quickly disconnect the remote control and use a corded pendant station. The wiring of the receiver, shall comply with the EN60204 standard and wires used must be self-extinguishing with a minimum section of 0,50/0,75 sq. mm. Pay attention to the supply voltage of the receiver and verify the correspondence between the controls on the transmitter and the outputs on the receiver.

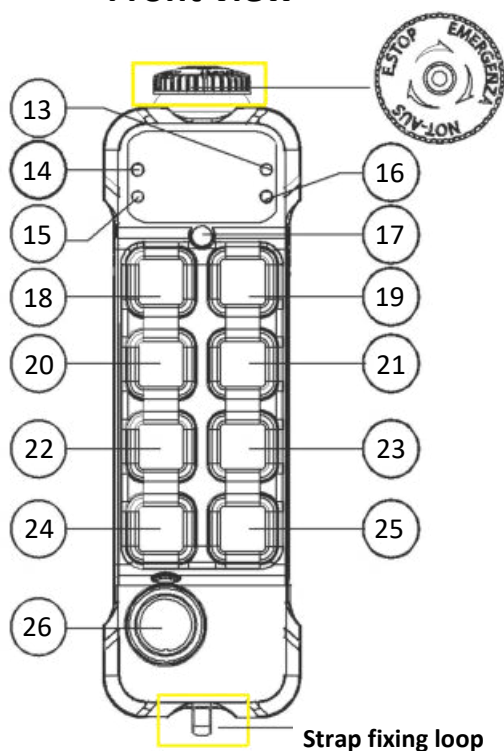
Once the wiring of the receiver has been completed, check the real correspondence between the pushbuttons on the transmitter and the various functions of the machine.

Also check the operation of the circuit STOP: Pressing the button on the transmitter, verify that the opening of the contacts of the 2 STOP relay in the receiver.

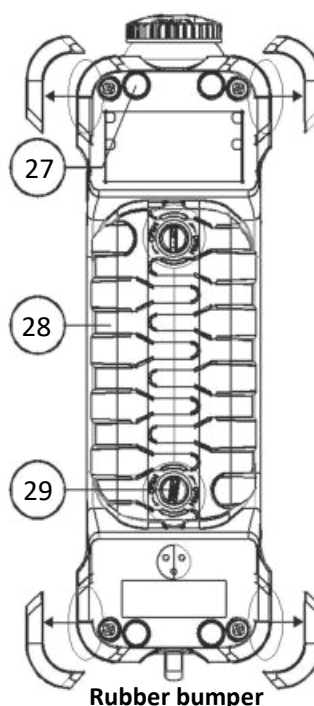
Proceed with the compilation of the wiring board, indicating the correspondence between the outputs of the receiver and the related machine controls.

Transmitters description

Front view

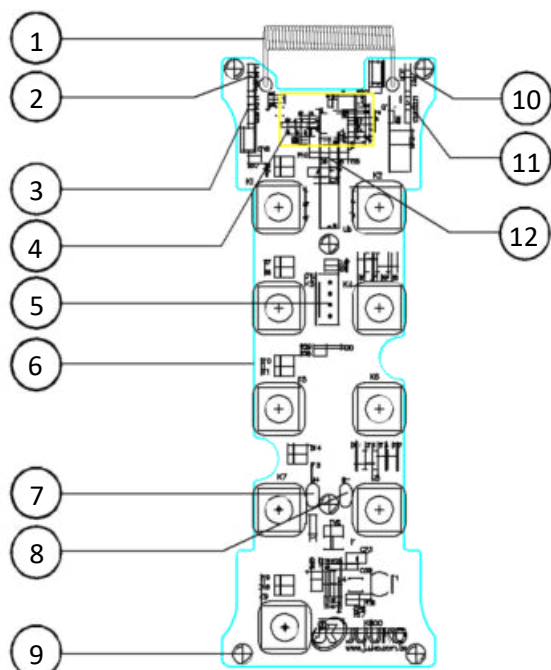


Rear view



- (13) LED2
- (14) LED 1
- (15) Low battery LED
- (16) Error LED
- (17) Status LED
- (18-25) Function buttons
- (26) Start/horn button
- (27) Stainless legs
- (28) Battery cover
- (29) Battery cover screw

Transmitter board



- (1) Antenna
- (2) LED 1
- (3) Low battery LED
- (4) Radio module
- (5) Programming connector
- (6) Pushbuttons PCB
- (7) Battery connector +
- (8) Battery connector -
- (9) Fixing holes
- (10) LED 2
- (11) Error LED
- (12) Status LED

K200-C2E



K202-C2E



K400-C2E



K404-C2E



K600-C2E



K606-C2E



K800-C2E



K808-C2E



K1000-C2E



K1010-C2E



K1200-C2E



K1212-C2E



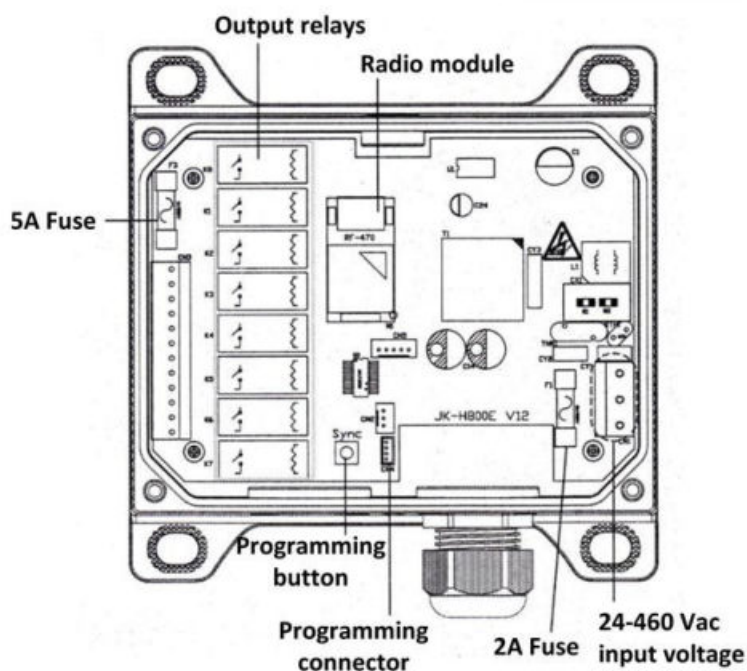
Receiver description

Before removing the cover of the receiver to do any work, first make sure you have unplugged the power cord.

WARNING ! Relay on receiver board are named with **K** (coil relay). For every **K** relay there is an **Y** number contact as wiring diagram of this manual.

H...C4 type receiver

24~264 Vac/dc

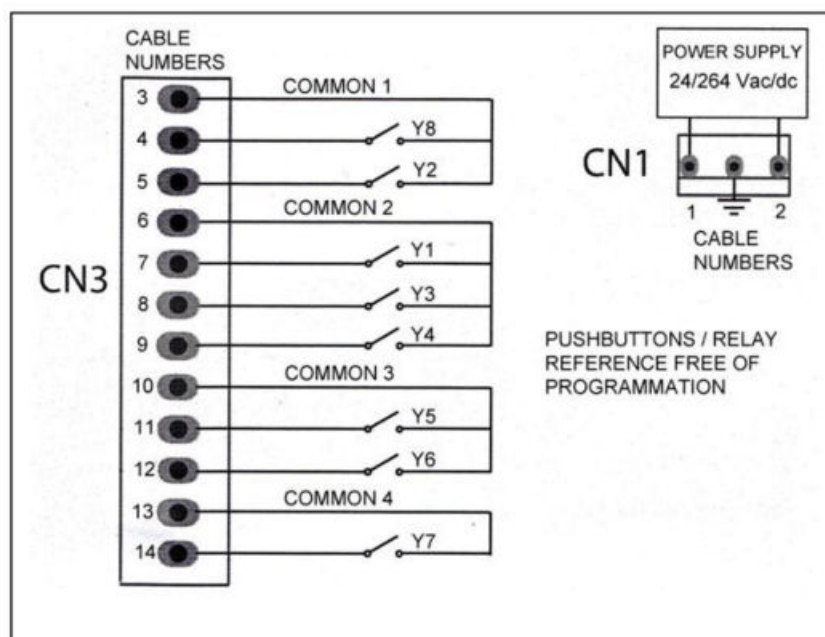


Overall size:

Width	142 mm
Height	141,20 mm
Depth	58,5 mm

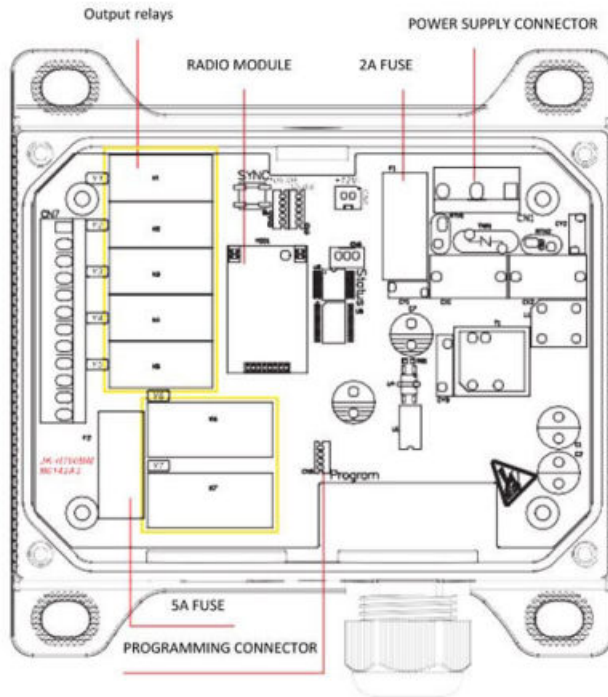
Distance between mounting brackets:

Width	116 mm
Height	125 mm



H...C2 Alim. Type receiver

24~264 | 90~460 Vac/dc

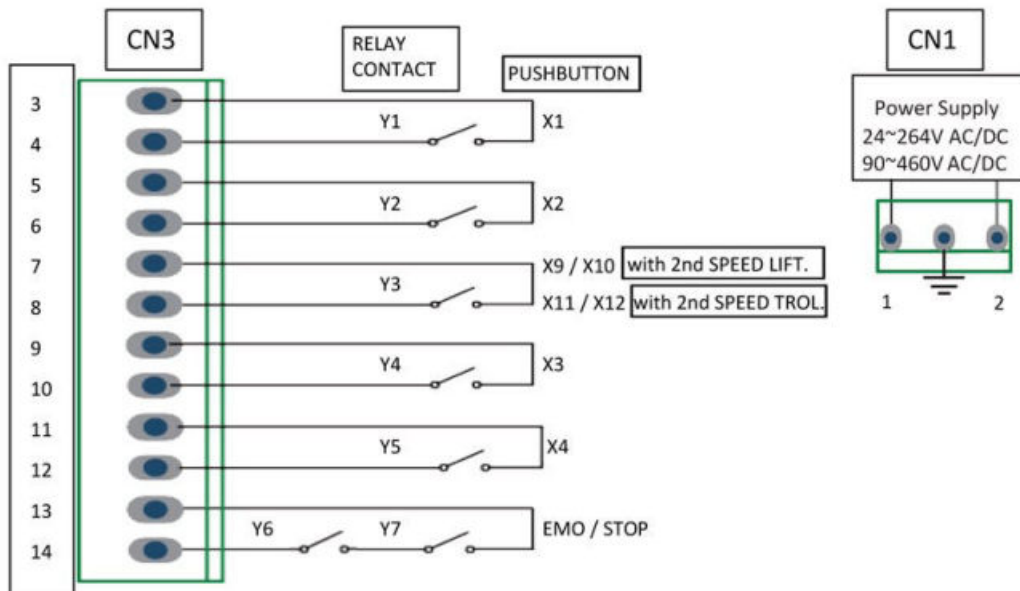


Overall size:

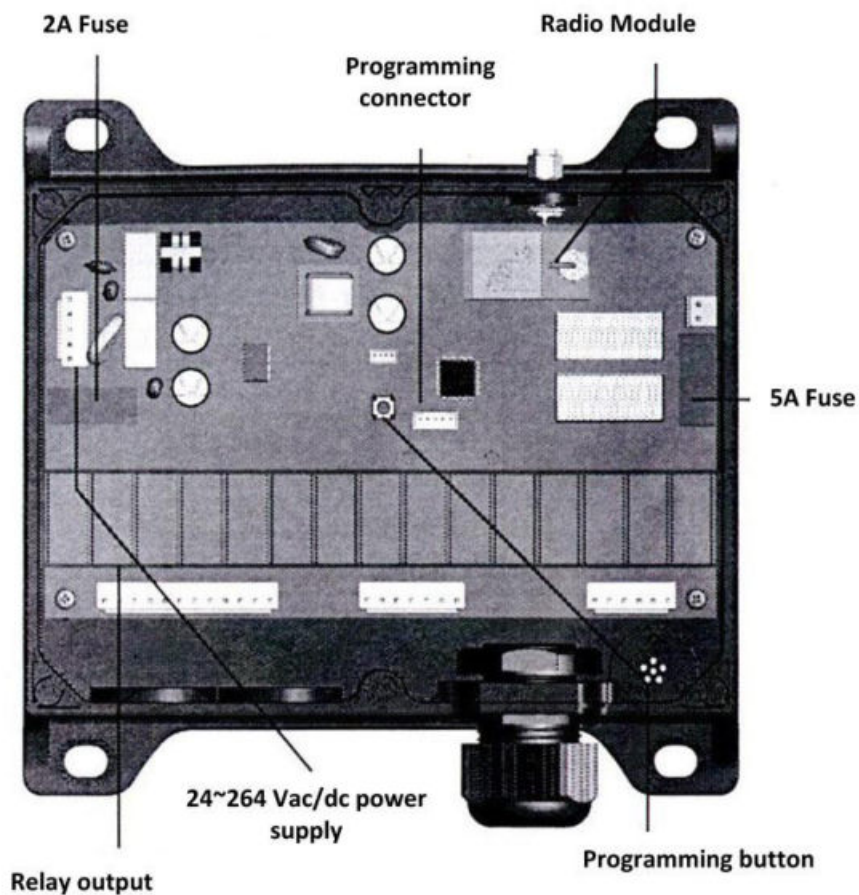
Width 141,20 mm
Height 141,20 mm
Depth 58,5 mm

Distance between mounting brackets:

Larghezza 116 mm
Altezza 125 mm



HS...C2 type receiver



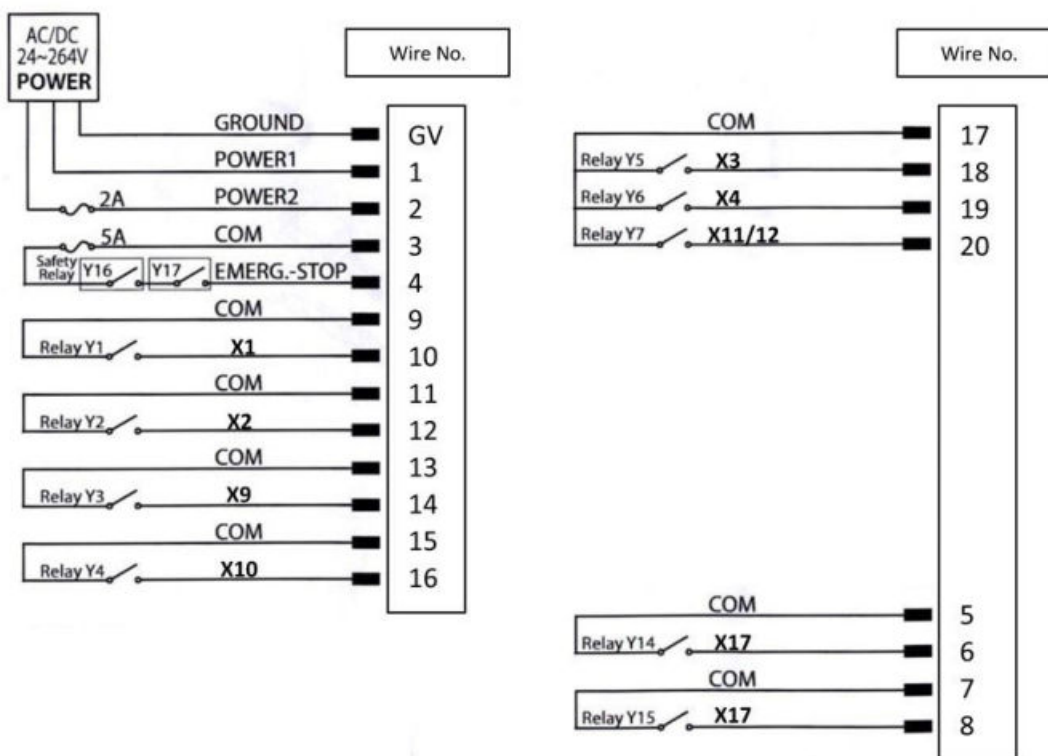
Overall size:

Width 190 mm
Height 184 mm
Depth 64 mm

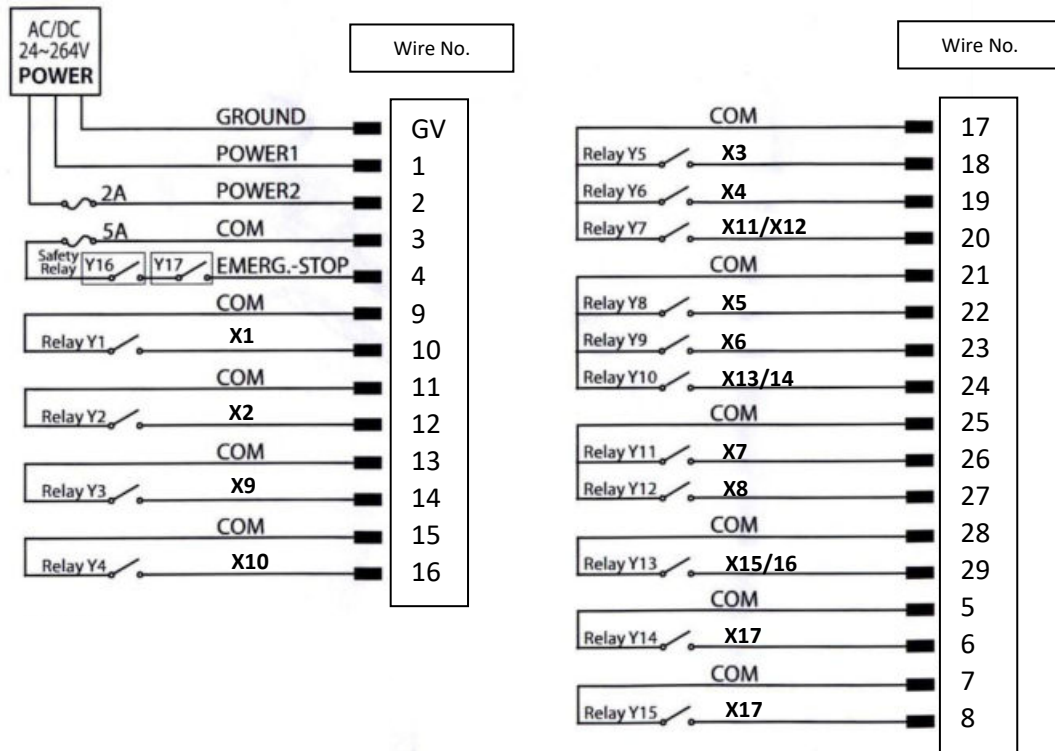
Distance between mounting brackets:

Width 156 mm
Height 165 mm

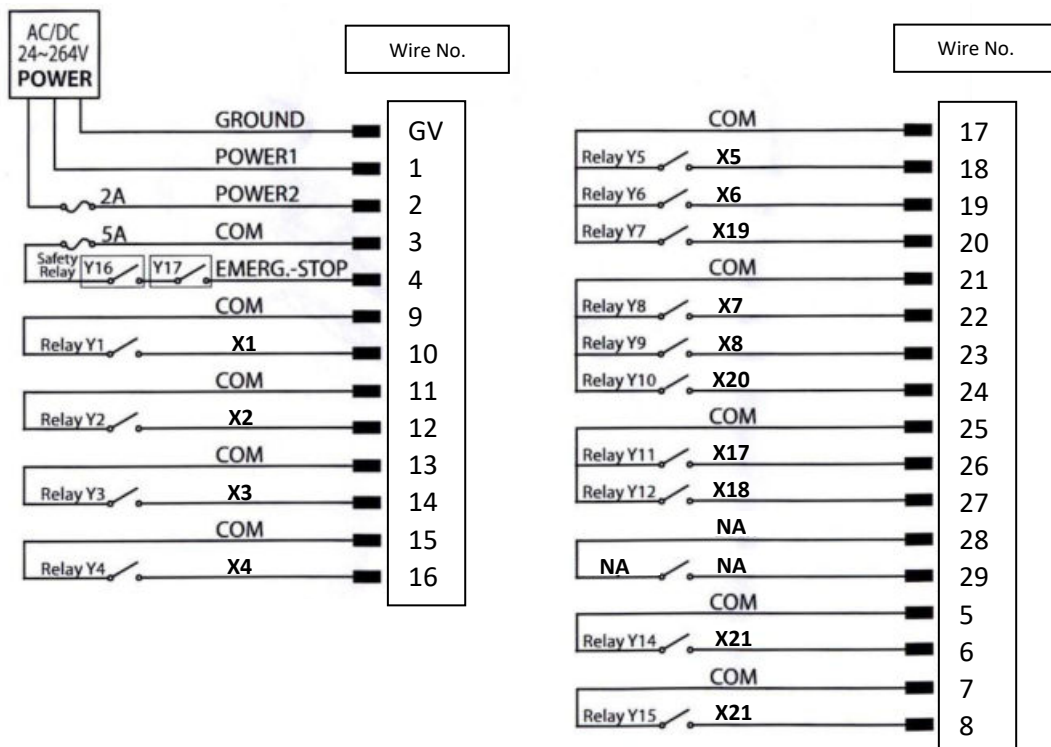
HS-A type receiver



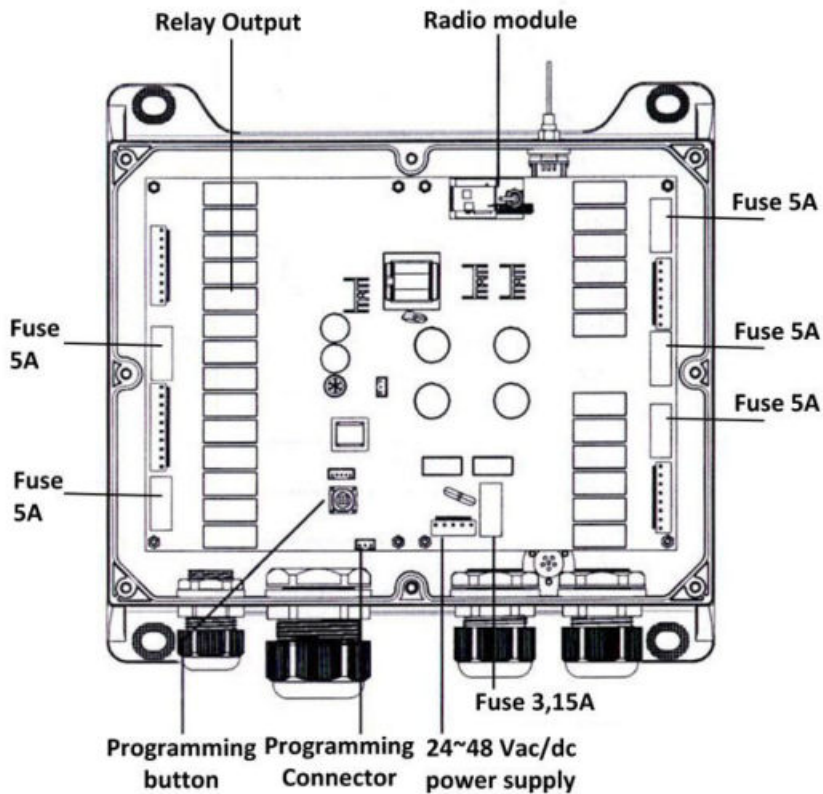
HS-B type receiver



HS-C type receiver



HM...C2 type receiver



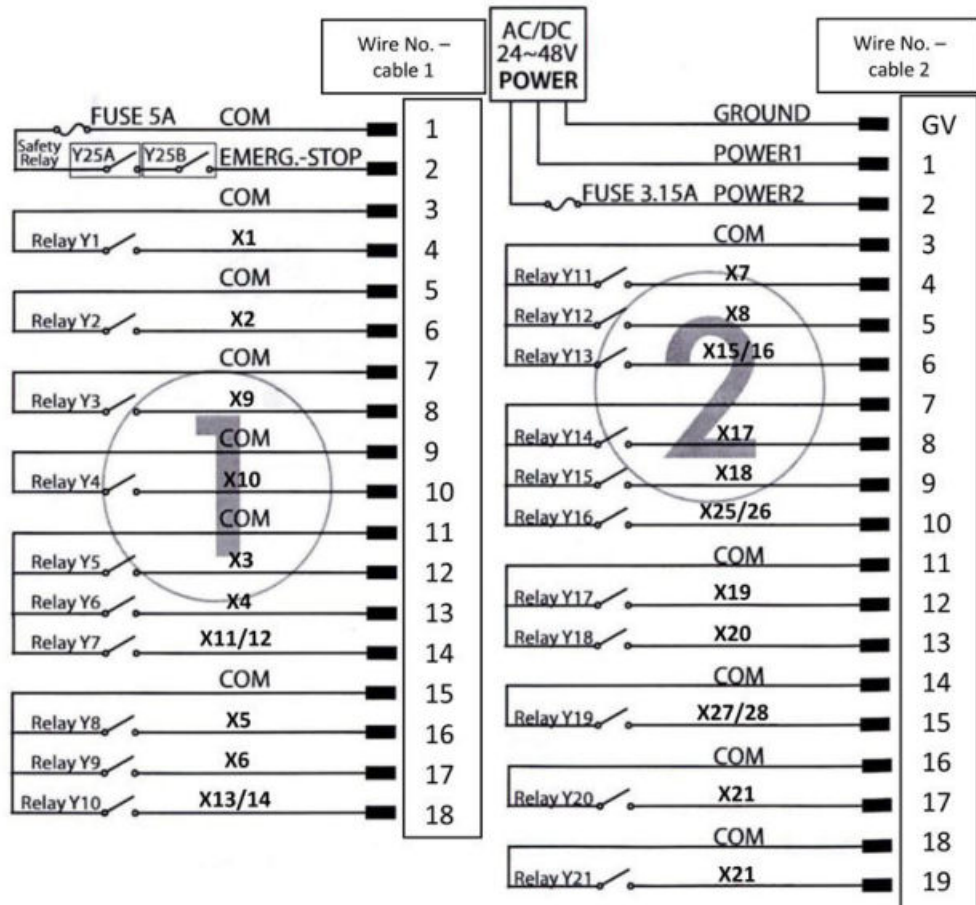
Overall size:

Width 272 mm
Height 260 mm
Depth 96 mm

Distance between mounting brackets:

Width 230 mm
Height 240 mm

HM type receiver



Usage information

For a correct use of the radio remote control, you must observe the following basic rules for safety at work.

- The remote control should be used only by operators who are perfectly familiar with the operation of the equipment and machinery attached to it.
- Never operate the transmitter without having the visual of the machine controlled by the remote control.
- Once you have finished using the device even for short periods, it's necessary to turn off the transmitter and keep it in a place inaccessible to unauthorized personnel.

Start-up procedure

- With the STOP button pressed, remove the back cover of the transmitter and insert 2 AA batteries (AA) in the battery compartment according to the polarity indicated.
- As soon as the batteries are inserted, the 5 LEDs present on the front of the transmitter, will emit some flashes which indicate proper operation.
- Power up the receiver and the machine connected to it.
- As soon as the receiver is powered, its LED indicator will flash red once and then it flashes slowly in green to indicate proper operation.
- Now releasing the STOP button and then pressing the START button, the remote control turns on and while the LED on the receiver remains on, the status LED on the transmitter will blink slowly.
- In case of malfunction due to electromagnetic interference, the LED on the receiver will blink red in rapid succession.

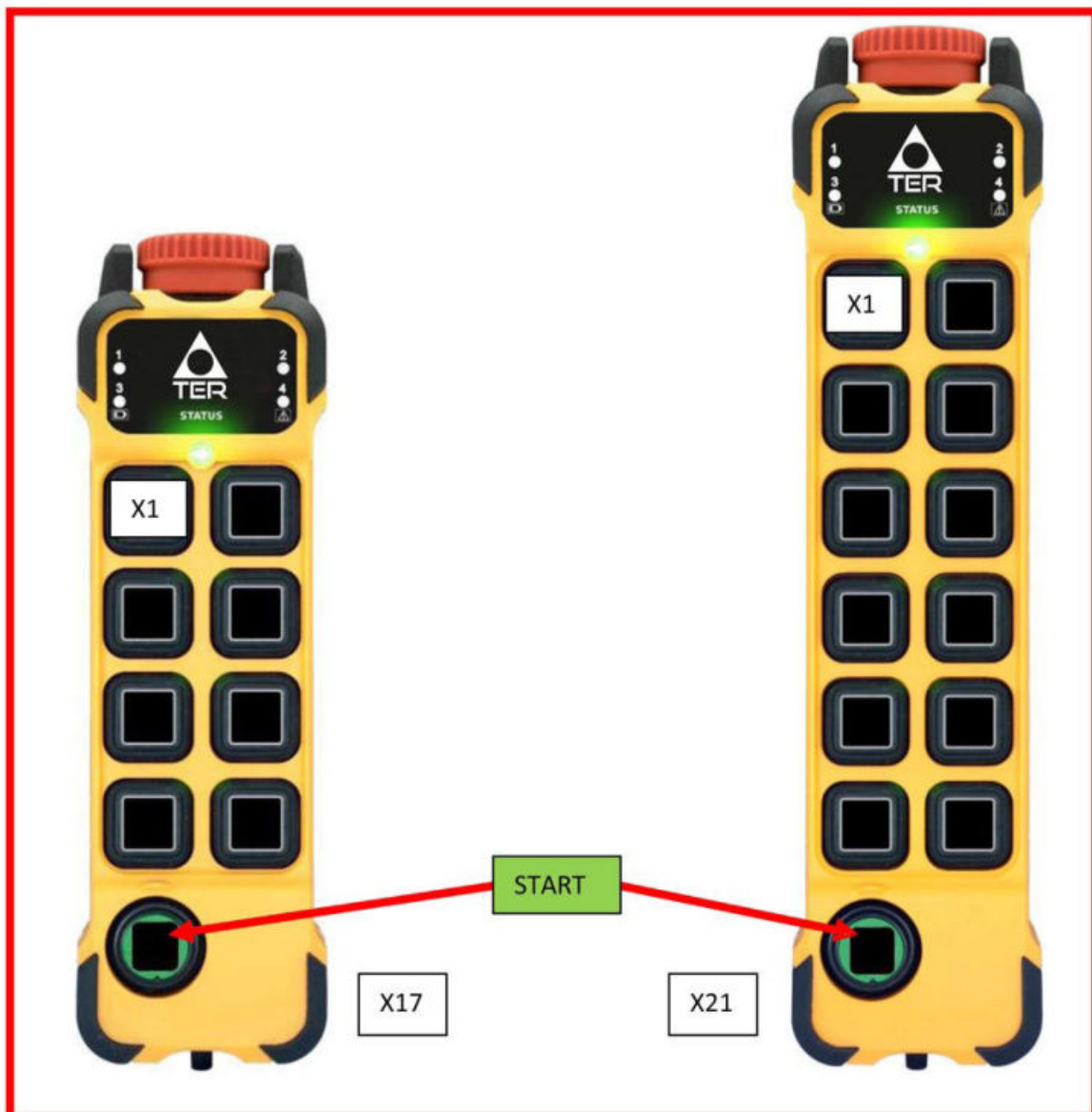
Switch-off procedure

- Pressing the red mushroom button, you will get an immediate opening of the STOP circuit on the receiver and at the same time, all active commands will be disabled.
- When not in use, the remote control will remain active (without sleep), or there is the option to set a delay time to sleep, selectable in 1, 2, 3, 5, 10, 30, 45 minutes.

Every TER remote control is factory set with SAFETY PIN code for START function (Regulation IEC 60204-32).

To make the START operation, carry out the following procedure:

1. Receiver unit must be under POWER SUPPLY
2. STOP mushroom pushbutton unlocked (STATUS LED flashing RED)
3. Push the START pushbutton (X17 for 2-4-6-8 pushbuttons release) (X21 for 10-12 pushbuttons release)
4. consecutively push the X1 pushbutton (normally combined with the hoist UP)
5. consecutively push the START pushbutton (STATUS LED flashing GREEN)
6. WARNING: in the procedure the buttons must never be pressed simultaneously. The sequence must be carried out within a maximum of 2 seconds between one press and the next

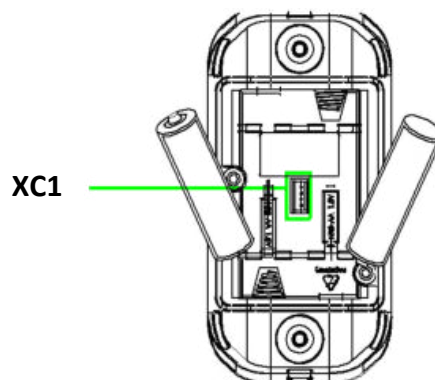
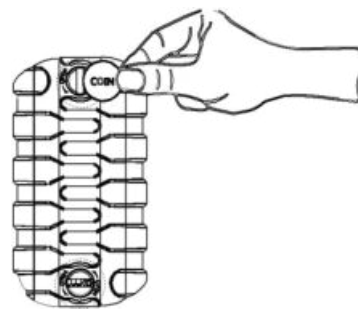


Replacement of transmitter batteries

- 1- Using a slotted screwdriver or a coin, turn the 2 outlet screws to remove the back cover
- 2- Replace the batteries with 2 new batteries (AA) according to the polarity indicated

Programming the transmitter

- 1- Remove the back cover
- 2- Remove the batteries and connect the special cable to the programming connector XC1



Frequency change and copy TX-RX

Frequency change

Each radio control can operate on 2 different operating channels selected from the program and it will be the device itself that, during operation, will choose to use the one that among the 2 channels is free and free of disturbances.

This selection can take place, not only when the radio control is switched on but also during its operation. In fact, in the event that radio disturbances occur on the channel currently used, the radio control will autonomously retune on the other free channel.

CopY TX-RX

Using the simple procedure illustrated on the next page, you can:

- Copy the operating frequency, the identification code and the programming of a transmitter, onto a new transmitter, in order to obtain a new exact copy of the original transmitter.
- Copy the frequency, code and programming of a receiver onto a new transmitter, creating a complete and fully functional radio control.
- Copy the frequency, code and programming of a transmitter onto a new receiver, creating a complete and fully functional radio control.
- The example procedures refer to the 8-key transmitter model. If you are operating on a transmitter with fewer or more than 8 keys, the function performed by X7 and X8 will always be carried out by the last 2 keys of the transmitter (in the case of the JK200 they will be the only 2 keys present).

Make a copy of a secondary transmitter from an original transmitter



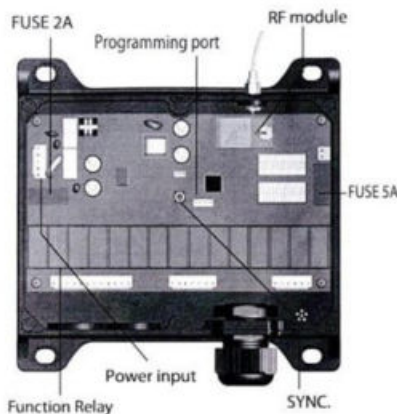
TRANSMITTER
ORIGINAL

1st step - start of configuration	2nd step - predisposition to data transfer	Step 3 - data transfer
Position the transmitters at least 50 cm away from each other. Make sure the batteries are inserted in both transmitters. Press STOP button.	Operation to be performed on BOTH TRANSMITTERS. Press buttons X7 and X8 alternately 4 times each until the STATUS LED starts to flash GREEN / RED. At this point the TRANSMITTERS are receptive to programming.	On the ORIGIN transmitter, press and hold down the X1 button. AT THE SAME TIME On the transmitter to copy to, press and hold down the X2 button. You will see LED 1 flash on both TXs. After 5 seconds, LED 1 + LED 2 will flash on both TXs. After 3 seconds of simultaneous flashing LED 1 + LED 2 on both TXs, LEDs 1/2 will become steady after which they will turn off. At this point the COPY of the program has been carried out correctly. IMPORTANT, THE PROCEDURE MUST BE PERFORMED BY KEEPING X1 AND X2 PRESSED FOR THE ENTIRE TIME OF THE CONFIGURATION.



TRANSMITTER
COPY

Make a copy of a secondary transmitter from an original receiver



RECEIVING
ORIGINAL

1st step - start of configuration	2nd step - predisposition to data transfer	Step 3 - data transfer
Position the transmitter and receiver at least 50 cm away from each other. Make sure the batteries are inserted into the transmitter. Press STOP button. Make sure the receiver is powered.	On the receiver, press the SYNC button for 4 seconds. The LED located on the receiver cover will start flashing GREEN / RED. On the transmitter, press buttons X7 and X8 alternately 4 times each until the STATUS LED starts to flash GREEN / RED. At this point the devices are receptive to programming.	On the transmitter to copy to, press and hold down the X2 button. You will see LED 1 flash. After 5 seconds, LED 1 + LED 2 will flash. Subsequently LED 1 will become steady while LED 2 will go out. When LED 1 is also turned off, copying will have been carried out correctly. IMPORTANT, THE PROCEDURE MUST BE PERFORMED BY KEEPING X2 PRESSED FOR THE ENTIRE TIME OF THE CONFIGURATION.



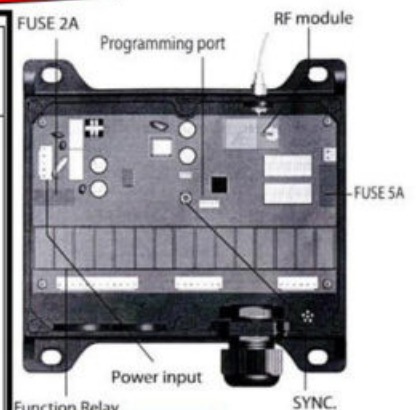
TRANSMITTER
COPY

Copy a secondary receiver from an original transmitter



TRANSMITTER
ORIGINAL

1st step - start of configuration	2nd step - predisposition to data transfer	Step 3 - data transfer
Position the transmitter and receiver at least 50 cm away from each other. Make sure the batteries are inserted into the transmitter. Press STOP button. Make sure the receiver is powered.	On the receiver, press the SYNC button for 4 seconds. The LED located on the receiver cover will start flashing GREEN / RED. On the transmitter, press buttons X7 and X8 alternately 4 times each until the STATUS LED starts to flash GREEN / RED. At this point the devices are receptive to programming.	On the transmitter from which you want to make the COPY, press and hold down the X1 button. You will see LED 1 flash. After 5 seconds, LED 1 + LED 2 will flash. Subsequently LED 1 will become steady while LED 2 will go out. When LED 1 is also turned off, copying will have been carried out correctly. IMPORTANT, THE PROCEDURE MUST BE PERFORMED BY KEEPING X1 PRESSED FOR THE ENTIRE TIME OF THE CONFIGURATION.



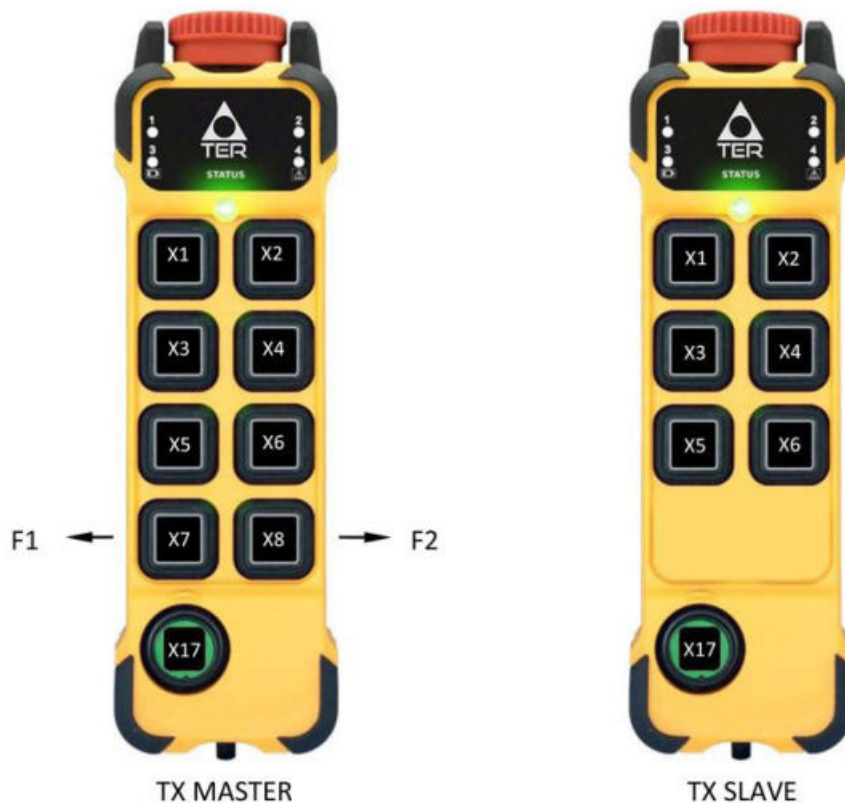
RECEIVING
COPY

Master & Slave Option

- MASTER: during the START function, flashing green STATUS LED and LED 1 active (orange light led).
- SLAVE: during the START function, flashing green STATUS LED (LED 1/2 not active).

Command both the gantry cranes with the Master TX (single operator).

1. Deactivate SLAVE TX with the emergency mushroom pushbutton (gantry crane 2).
2. Activate MASTER TX.
3. Select RX1/RX2/RX1+2 using F1 (gantry crane 1) and F2 (gantry crane 2) pushbuttons.
4. The selection made will be indicated by the activation of LED1/2/1+2 on the transmitter LED1/2/1+2 (orange light led).
5. If the MASTER TX is using RX1+2 the SLAVE TX will not have access to RX2 (gantry crane 2) and will give alarm signal by red STATUES LED flashing.
6. If the “free” MASTER TX RX2 (orange light led 2 off) the SLAVE TX will return to have access to its receiver RX2 (gantry crane 2).
7. For safety reasons, in the MASTER mode 1+2, if one of the two receivers loses the signal and/or goes off, it will also stop the second receiver.



Troubleshooting

Transmitter

LED signal ● Short — Long			Failure analysis	Solution
	red LED	green LED	Battery contacts oxidized Batteries low or defective	Remove the oxide from battery contacts Replace batteries
STATUS				
	● ● ● ● ● ●			
	red LED	green LED	Transmitter is not communicating with receiver	Check the power supply of receiver Check receiver supply fuse
STATUS		● ● ● ● ● ●		
	red LED	green LED	Pushbutton jammed or defective	Contact the dealer
STATUS		● ● ● ● ● ●		
	— ● ●			

Receiver

LED signal ● Short — Long			Failure analysis	Solution
	red LED	green LED	Communication error	Check the antenna and make sure is not loose
STATUS	— ● ● ●			
	red LED	green LED	Receiver is not communicating with transmitter	Check the antenna and make sure is not loose
STATUS		— — —		
	red LED	green LED	Receiver is properly working	
STATUS		— — — — —		

Technical data

TRANSMITTER (from K200C2E to K808C2E)

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Operating range	100 m
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	2 AA size batteries
Antenna	Internal
Average current consumption	16mA at 3Vdc
Emission power	< 10dBm
Operating temperature	-10°C > +75°C
Protection degree	IP65
Dimensions	H193xW57xD51 (mm)
Weight	290g
Housing material	Nylon and glass fiber

TRANSMITTER (from K1000C2E to K1212C2E)

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Operating range	100 m
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	2 AA size batteries
Antenna	internal
Average current consumption	16mA at 3Vdc
Emission power	< 10dBm
Operating temperature	-10°C > +75°C
Protection degree	IP65
Dimensions	H245xW57xD51 (mm)
Weight	350g
Housing material	Nylon and glass fiber

H...C4 type RECEIVER

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Sensitivity	-112dBm at 1,2Kbps
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	24~264Vac/dc
Antenna	External
Standby current consumption	16mA at 220Vac
Emission power	+ 10dBm
Operating temperature	-10°C > +75°C
Relays	8 function
Dimensions	H142xW141,2xD58,5 (mm)
Weight	800g
Housing	Nylon and glass fiber IP65

H...C2 type RECEIVER

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Sensitivity	-112dBm a 1,2Kbps
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	24~264 Vac/dc 90~460 Vac/dc
Antenna	External
Standby current consumption	16mA a 220Vac
Emission power	+ 10dBm
Operating temperature	-10°C > +75°C
Relays	2 stop + 5 function (1 N.A. 5A 250Vca)
Dimensions	H142xW141,2xD58,5 (mm)
Weight	800g
Housing	Nylon and glass fiber IP65

HS...C2 type RECEIVER

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Sensitivity	-112dBm at 1,2Kbps
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	24~264 Vac/dc
Antenna	External
Standby current consumption	16mA at 220Vac
Emission power	+ 10dBm
Operating temperature	-10°C > +75°C
Relays	2 stop + 13 function (1 N.O. 5A 250Vac)
Dimensions	H190xW184xD64 (mm)
Weight	1795g
Housing	Nylon and glass fiber IP65

HM...C2 type RECEIVER

Frequency	433.0525 > 434.7775 MHz
Modulation method	4GFSK
Sensitivity	-112dBm at 1,2Kbps
Control system	PLL
Antenna impedance	50 ohm
Commands response time	50 > 100mS
Power supply	24~48Vac/dc
Antenna	External
Standby current consumption	45mA at 48Vac
Potenza d'emissione	+ 10dBm
Temperatura di funzionamento	-10°C > +75°C
Relays	2 stop + 19 function (1 N.O. 5A 250Vac)
Dimensions	H272xL260xP96 (mm)
Weight	2950g
Housing	Nylon and glass fiber IP65

Transmitter & Receiver Standard Combinations

Transmitter	Receiver	Wiring connection
K200C2E	H	Universal
K200C2E / K202C2E / K400C2E / K404C2E	HS	A
K600C2E / K606C2E / K800C2E / K808C2E	HS	B
K1000C2E / K1200C2E	HS	C
K1010C2E / K1212C2E	HM	Universal

Warranty and service

The radio remote control is guaranteed 12 months (twelve) with extension to an additional 24 months for electronic parts that may be defective in manufacture from the date of purchase shown on the invoice on which must be clearly marked model and serial number of the system. Juuko Italy guarantees the product against manufacturing defects, therefore, all the components which in our sole discretion present anomalies of construction, will be replaced at no charge to the customer. However, it's absolutely ruled out the complete replacement of the device. The repair will be performed at our service center where the equipment must be received without any charge to us regarding transport costs or other incidental expenses. Should it be necessary the intervention of one of our technicians at the place of installation of the system, the replacement of defective parts and related labor will be done under warranty and all expenses incurred, will be borne by the customer. The warranty does not apply to loss or damage during transport and it also does not cover damage caused by misuse, improper installation, improper power supply or static electricity discharges.

The warranty expires when the unit is tampered or repaired by unauthorized personnel, and also does not include consumable parts and accessory such as batteries, signaling devices, antennas and external connectors. Juuko Italy assumes no responsibility for damage caused by the equipment to persons or property, therefore, is not subject to possible claims for damages. However in case of any disputes, the court of jurisdiction is the **Foro di Novara** (Novara, Italy).

The warranty does not cover

- Faults resulting from normal wear
- Consumable Parts
- Products that have been subject to unauthorized changes
- Faults resulting from improper installation or use
- Damage due to moisture, water, or external events

Repair and maintenance

- Repairs and maintenance must be performed by qualified personnel
- Use only original Juuko spare parts
- Contact your dealer for service or maintenance needs
- Store in a clean, dry place
- Keep the battery contacts clean
- Remove dust and dirt with a clean, damp cloth

Keep this manual and certificate of conformity issued which shall contain the number and serial number of the product.



JUUKO ITALY – Via Don Signini 43 – 28010 – BRIGA NOVARESE – NO – ITALY - Tel. +39 0322 93574 / 953788 – Fax. +39 0322 953787 –
www.juukoitaly.it - www.juukoreMOTEcontrol.com

DECLARATION OF CONFORMITY

CERTIFICATE OF COMPLIANCE WITH TECHNICAL, FUNCTIONAL AND SAFETY STANDARDS

The producer:  SHUN HU TECHNOLOGY CO. LTD	No.21, Zhonggoong Rd., Xihu Township, Changhua County 514, Taiwan	
The distributor: 	Via don Signini 43 28010 – Briga Novarese (NO) ITALY	Tax code/VAT No. IT01179050032 Comm. register 01179050032 C.O.C. of NOVARA 154120

JK SERIES RADIO REMOTE CONTROL

Which consider in the set Trasmitter Unit
and Receiver Unit that work together in dual transmission.

Transmitter unit list: **K200C2E – K202C2E – K400C2E – K404C2E – K600C2E – K606C2E – K800C2E – K808C2E – K1000C2E – K1010C2E – K1200C2E – K1212C2E**

Receiver unit list: **H...C4 – HS...C2 – HM...C2**

It's suitable to be installed on machines or other equipment conforming to the "Directive 2006/42/EC" and complies with the technical requirements of the standards and specifications listed below:

Essential requirement	Regulation / Standard applied	Result
Machinery Directive	2006/42/EC (revisione della 98/37/EC)	compliant
Low Voltage Equipment Directive	2014/35/UE	compliant
Electromagnetic Compatibility Directive	ETSI - EN 301 489-1: V.2.1.1, EN 301 489-3: V.1.4.1 e 2014/30/UE	compliant
Radio Equipment Directive	ETSI - EN 300 220-1: V.2.3.1 - EN 300 220-2: V.2.3.1 e 1999/5/EC	compliant
Electromagnetic Compatibility Directives	EN55022/2010 – EN61000-3-2:2006 +A1:2009+A2:2009 EN61000-3-3:2006 EN61000-4-2:2009 EN61000-4-3:2006+A1:2008+A2:2010 EN61000-4-4:2004+A1:2010 EN61000-4-5:2006 EN61000-4-6:2009 EN61000-4-11:2004 EN62368-1:2004 +A11:201762479:2010 EN IEC 61000-6-2:2019 EN60529:1991+A1:2001+A2:20013 EN61000-6-3:2007+A1:2011	compliant

This declaration of conformity is also compliant with the under-reported harmonized directives:

Essential requirement	Regulation / Standard applied	Result
Cranes – Control	EN 13557/2003 (31/12/2005)	Compliant
Safety of Machinery	EN60204-32:2008 - EN13557:2003+A2:2008 - IEC 60950-22/2017 e EN ISO 13849-1/2015 Category 4 for STOP circuit – Category 3 for control circuit	Compliant
Safety of Machinery Electrical equipment	EN60204-1/2006	Compliant
Safety of Machinery Electrical equip. for Cranes	EN60204-32/1998	Compliant

SAFETY FUNCTION PERFORMANCE
LEVEL ACCORDING TO EN 13849-1:2008
STOP OF ALL MOTORS

PL
d

EMERGENCY STOP FUNCTION: EMERGENCY STOP CONTROL FOR SAFE

Briga Novarese October 24th, 2022

JUUKO ITALY – Gli Amministratori
Paolo Cerutti e Matteo Zanetta

This device also complies with the standards required by Article 3 of the R & TTE Directive 1999/5/EC and Directive 2004/108/EC.

This document reflects the opinion of the certifying body: **MRT Technology** - Certificate No: **1806TW2702-E1, 1806TW2702-E2, 1807ESU01101** issued on 28/07/2018. Technical documentation kept in archive files certification body (Taoyuan City), manufacturer (Xihu Township) and distribution company in Briga Novarese, via Don Signini 43 at JUUKO ITALY. The reference person is the Eng. Paolo Cerutti.


MRT Technology (Taiwan) Co., Ltd

Verification Of Compliance

Report No.: 1806TW2702-E1, 1806TW2702-E2, 1807ESU01101

Issued Date: 2018-07-25

Product	: Radio remote control transmitter
Trademark	: 
Model Number	: K200, K202, K400, K402, K404, K600, K602, K604, K606, K800, K802, K804, K806, K808
Company Name	: SHUN HU Technology Co., Ltd.

This verification does not imply assessment of the production of the product.
This product, which has been issued the test report listed as above in MRT-TW, MRT-SU Laboratory, is based on a single evaluation of one sample and confirmed to comply with the requirements of the following standard.

EN 301 489-1 V2.1.1: 2017	EN 300 220-1 V3.1.1: 2017
EN 301 489-3 V2.1.1: 2017	EN 300 220-2 V3.1.1: 2017
IEC 61000-4-2: 2008	
IEC 61000-4-3: 2010	
IEC 61000-4-4: 2012	
IEC 61000-4-5: 2014	
IEC 61000-4-6: 2013	
IEC 61000-4-8: 2009	
IEC 61000-4-11: 2004/AMD1:2017	


Chenz Ker / Manager


No. 38, Fuxing Second Rd., Gulshan Dist., Taoyuan City 333, Taiwan (R.O.C)
TEL: +886-3-3288-388 , FAX: +886-3-3288-918 , Web: <http://www.mrt-cert.com>



T.E.R. Tecno Elettrica Ravasi Srl a socio unico
Via Garibaldi 29/31 - 23885 Calco (LC) - Italy
Tel. +39 039 9911011 - Fax +39 039 9910445
E-mail: info@ter.it - www.ter.it

Sede Legale - Registered Office
Via Alcide De Gasperi 54 - 23887 Olgiate Molgora (LC) - Italy