Trasmitter

LED signal (● SHORT, ▬ LONG)	Failure Analysis	Solution
STATUS: red LED ●●●●●●, green LED — ⚠	-Corrosion on the battery terminals. -Low battery. -Damage batteries.	-Clean the battery terminals. -Replace the batteries.
STATUS: red LED —, green LED ●●●●●● — ⚠	- Transmitter is not communicating with the receiver.	-Check the power supply of the receiver. -Check the fuse in the receiver
STATUS: red LED ▬●●, green LED — ⚠	-Push button damaged.	-Contact the dealers.
STATUS: red LED ▬●●●, green LED — ⚠	-RF error	-Check the antenna and make sure it is not loose. -Change a new RF module. -Contact dealer
STATUS: red LED ●●●●●●, green LED — ⚠	-G-force Exceeded	-Re-Start System

Receiver

Should an error occur, the LED of the receiver will indicate the cause.

LED Signal (● SHORT, ▬ LONG)	Failure Analysis	Solution
STATUS: red LED ▬●●●, green LED —	-RF error	-Check the antenna and make sure it is not loose. -Change a new RF module. -Contact dealer
STATUS: red LED —, green LED —	-Receiver is not powered	-Check the fuse. -Check the power supply.
STATUS: red LED —, green LED ▬	The receiver is receiving data.	

Radio remote control system

BASIC INSTALLATION INSTRUCTIONS

JKR200 JKR404 JKR808

(English)
Standard settings

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E-mail: info@ter.it - www.ter.it

Sede Legale - Registered Office
Via San Vigilio 2 - 23887 Olgiate Molgora (LC) - Italy

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Guarantee, service, repairs and maintenance

JUUKO industrial radio remote control. products are covered by a guarantee/ warranty gainstmaterial, construction and manufacturing defects. During the guarantee/warrantyperiod, JUUKO ITALY may replace the product or faulty parts. Work underguaraantee/warranty must be carried out by JUUKO ITALY industrial radio remote control.

The following are NOT covered by the guarantee / warranty:

- Faults resulting from normal wear and tear.
- Parts of a consumable nature such as pushbuttons, relays,fuses etc.
- Products that have been subject to unauthorized modifications.
- Faults resulting from incorrect installation and use.
- Condensation and water damage.

Maintenance:

- Repairs and maintenance must be carried out by qualified personnel.
- Use spare parts from JUUKO ITALY industrial radio remote control.
- Contact your representative if you require service or other assistance.
- Keep the product in a dry, clean place.
- Keep contacts and antennas clean.
- Wipe off dust using a slightly damp, clean cloth.

INTENDED USE

The HS and HM Receiving units are intended as the control unit interface for the Radio Remote Control for Hoists, Cranes, Monorail and Material Handling equipment.

OPERATING METHODS

The receiving unit accepts signals from the Radio Transmitter and processes them to open or close specific relays for Hoist, Trolley, Bridge and various auxiliary functions.

Memo:

Note:

Note:

READ ALL INSTRUCTIONS CAREFULLY BEFORE MOUNTING, INSTALLING AND CONFIGURATING THE PRODUCT.

This manual includes general information concerning the operation of the radio remote control transmitter

General safety information

•Persons under the influence of drugs and/or alcohol and/or other medicine that impairs their reaction may not assemble, disassemble, install, put into operation, repair or operate the product.

•All conversions and modifications of an installation/system must conform to the relevant safety requirements. Work on the electrical equipment must be performed only by qualified, authorized personnel and in accordance with the relevant safety requirements.

•In the event of malfunctioning and visible defects or irregularities, the product must be stopped, switched off and the relevant master switches must be switched off.

Used Symbols and Definitions for Warnings	
	Warning against hazardous situation. Do not use in high humidity and heavy dust environment. Protective pouch is highly suggested to use in high humidity and heavy dust environment. Avoid using in acid and alkali environment.
	Warning against electrical voltage

FCC Part 15

* This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation

* You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

European Union Regulatory Notice

This device bearing the CE marking is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. This device complies with the following harmonized European standards.

Safety: EN 60950-1:2006+A11:2009+A1:2010+A12:2011

EMC: ETSI EN30 1489-1 V1.9.2 2011-09; ETSI EN 301 489-3 V1.4.1 2002-08

Radio: ETSI EN 300 220-1 v2.4.1: 2012; ETSI EN 300 220-2 v2.4.1: 2012

The following CE marking is valid for EU harmonized telecommunications products.

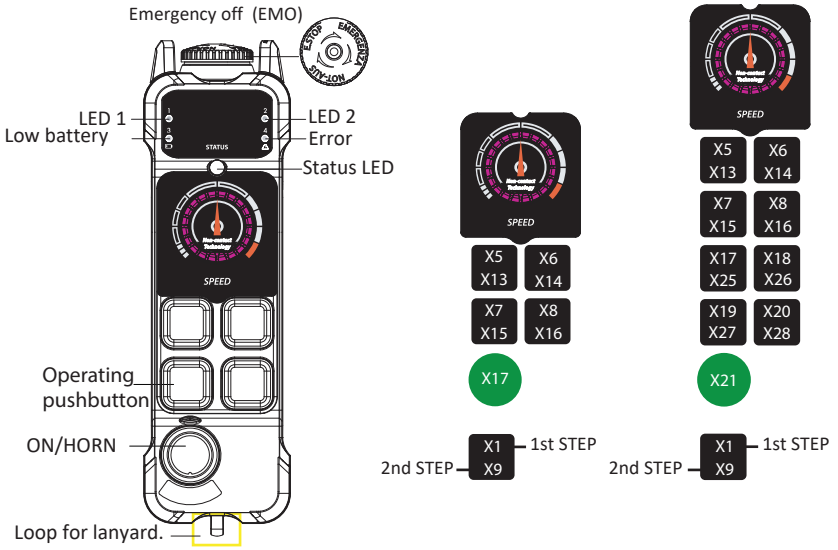
CE0560

IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The K (C2) series transmitter comes in different versions, featuring 2, 4 or 8 pushbuttons. The transmitter also features 2-step pushbuttons. Both steps of each pushbutton can operate different functions like controlling the speed of a movement, step 1: slow, step 2: fast.



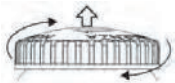
Start/ Horn switch

The K series transmitter has a Start/Horn pushbutton on the left side. The Start/Horn switch has 2 functions:

1. Press to Start.
2. Press for horn while operating.

Start the transmitter in operating mode

1. Turn to release the Emergency Off button.
2. Press the ”START” button.

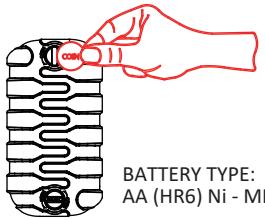


Change the speed

Turning the transmitter off

Turn the transmitter off by completely pressing the Emergency Off button. The transmitter turns off. All relays deactivate.

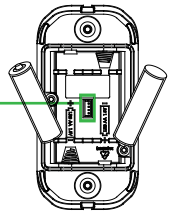
Changing the batteries



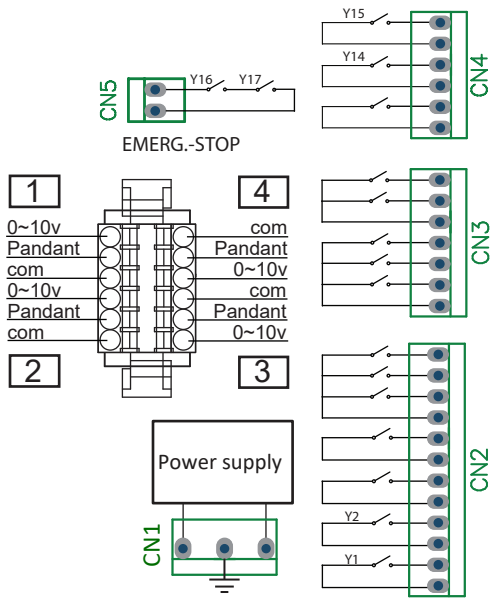
BATTERY TYPE:
AA (HR6) Ni - MH x 2

Program the transmitters

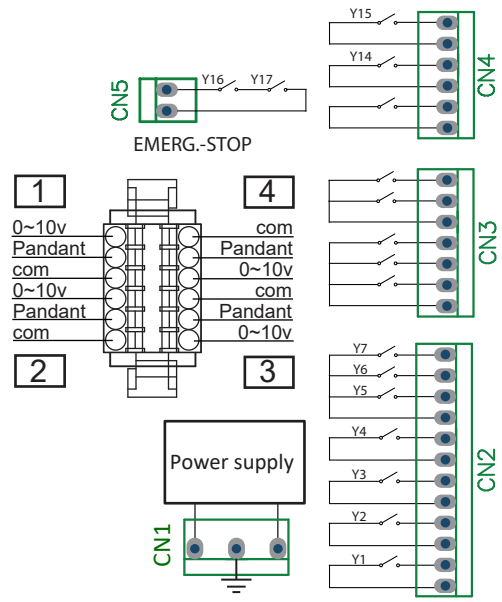
1. Remove the battery cover.
2. Remove both batteries. The programming connector is placed behind the battery



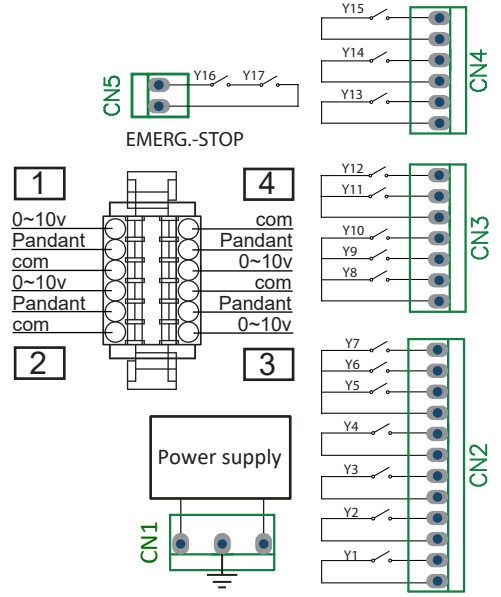
K200R



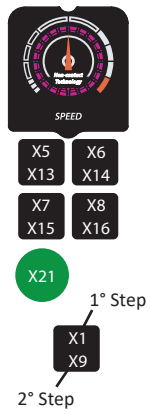
K404R



K808R

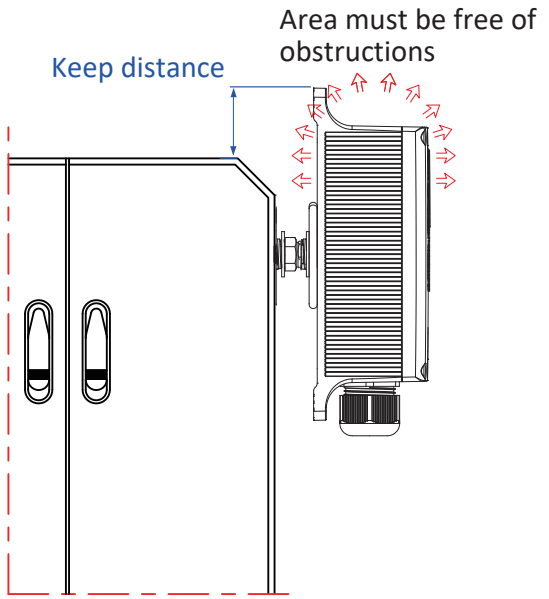


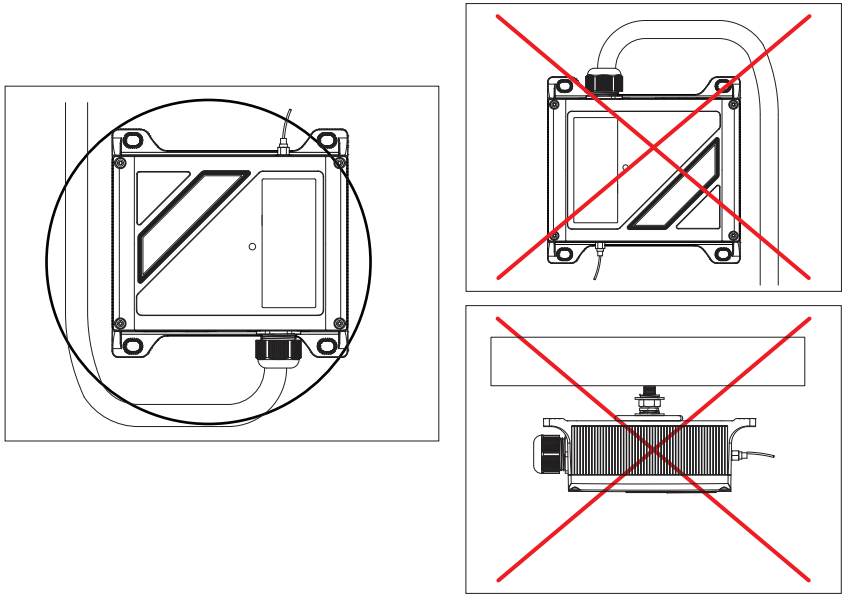
Pushbuttons(X) - Relay(Y) Pairing	
Pushbuttons (X)	Relay (Y)
1	1
2	2
3	5
4	6
5	8
6	9
7	11
8	12
9	3
10	4
11	7
12	7
13	10
14	10
15	13
16	13
17	14 - 15



Instruction guide

WARNING! DO NOT FLUSH MOUNT THE RECEIVING ASSEMBLY.
PLEASE MAINTAIN PROPER CLEARANCE AS SHOWN.





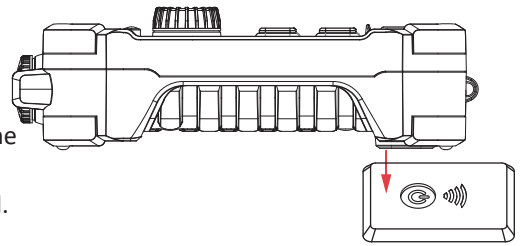
Technical data

TRANSMITTER

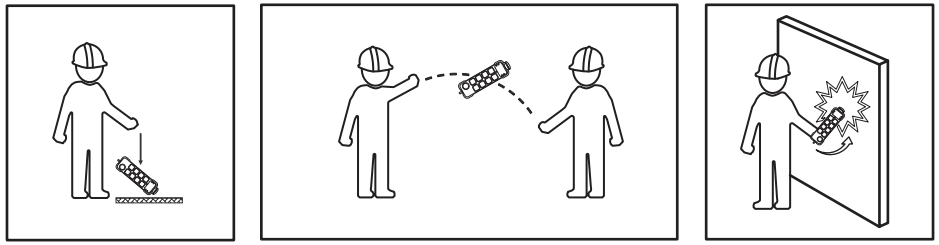
Frequency range	434.040 ~ 434.790MHz
Modulation method	4 FSK
Typical operating range	100M
Control system	PLL
Antenna impedance	50Ω
Typical response time for Stop command and commands	50mS~100mS
Power supply	LR6(AA)1.5V x2
Antenna	Internal
Average power consumption	16mA@DC3V (default setting)
Radio-frequency power	<10dBm (default setting)
Operating and storage temperature	(-20°C)~(+55°C) / (-40°C)~(+65°C)
Protection degree	IP65
Dimensions	193×57×51mm
Weight (including battery)	approx.325g
Housing material	PA6(30% GF)

How to use Qi wireless charging (Optional)

1. Turn the transmitter off by completely pressing the emergency off button.
2. Place the transmitter on top of the wireless charging pad. You'll hear a beep, the battery LED flash every 1 second. When it's finished charging the battery LED flash every 5 seconds.
3. Remove the transmitter from the pad.



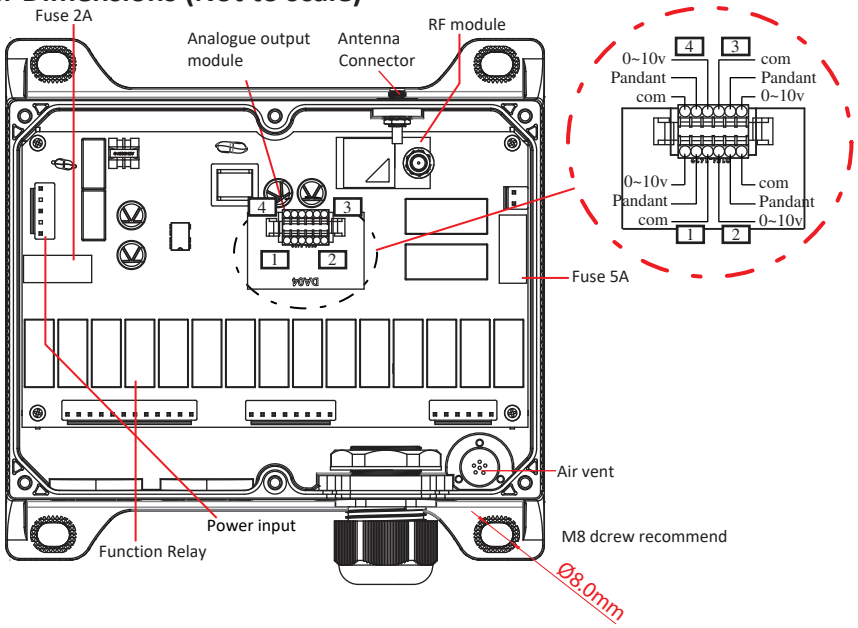
Zero-G safety



The zero-g safety function can prevent the uncontrolled output of commands in specific emergencies. The G sensor can detect if the transmitter receives a hard impact, dropped or thrown. These features can deactivate either the complete radio system or only the safety-relevant function relays. Alternatively, a pre-defined output (e.g. crane horn) can be triggered. Please contact your dealer for special settings.

WARNING! The receiver must NOT be opened by any other than a qualified installer. Make sure to turn the electricity off before opening the receiver.

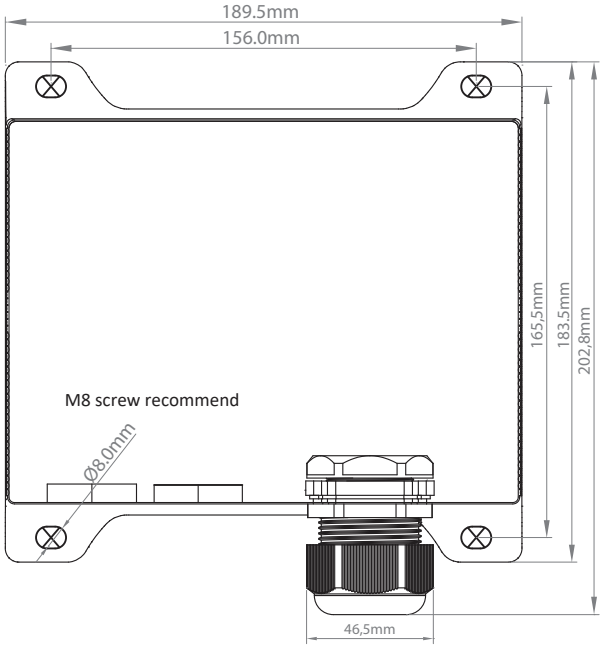
Receiver Dimensions (Not to scale)



Technical data

Frequency	434.040 ~ 434.790 MHz
Modulation method	4GFSK
Sensitivity	-112dBm@baud1.2K bps
Control system	PLL
Antenna impedance	50 Ω
Typical response time for Stop command and commands	50mS ~ 100mS
Power supply	24/264 Vac/dc (optional 12Vdc)
Power consumption	AC:8.3W / DC:12.8W
Antenna	Internal (External as optional)
Standby power	0.97W
Operating and storage temperature	(-20°C)~(+55°C)/(-40°C)~(+65°C)
Protection degree	IP65
Dimensions	190×184×64 (mm)
Weight	1795g
Housing	PA6(30% GF)

Receiver Dimensions (Not to scale)



Antenna **(Optional)**