

Transmitter

TTATISTILL					
LED	•	SHORT LONG		Failure Analysis	Solution
	LED red	LED green		-Corrosion on the	-Clean the battery terminalsReplace the batteries.
STATUS				battery terminals.	
	•••••			-Low battery.	
<u>^</u>				-Damage batteries.	
	LED red	LED green		-Transmitter is not	-Check the power supply
STATUS		•••••		communicating with the	of the receiver.
				receiverCheck the fuse	
<u> </u>					receiver
	LED red	LED green		-Push button damaged.	-Contact the dealers.
STATUS					
	-··				
				-RF error	-Check the antenna and
	LED red	LED green		-IXI CITOI	make sure it is not loose. -Change a new RF module.
STATUS					
					-Contact dealer
<u> </u>	—···				
			l	-G-force Exceeded	-Re-Start System
CTATUS	LED red	LED green			
STATUS		\vdash			
<u> </u>	•••••				

Receiver

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

LEC	SHORT LONG	Fail	lure Analysis	Solution		
STATUS	LED red LED gro	en -RF er	TOF	-Check the antenna and make sure it is not loose. -Change a new RF module. -Contact dealer		
STATUS	LED red LED gre	en -Rece	iver is not ered.	-Check the fuseCheck the power supply.		

STATUS LED red LED green

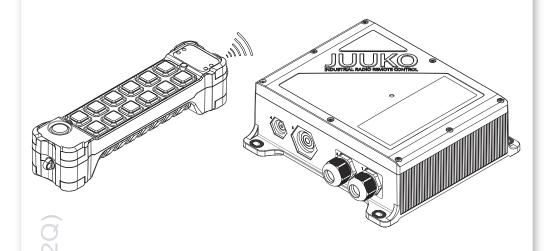
The receiver is receiving data.



Radio remote control system BASIC INSTALLATION INSTRUCTIONS

[NC2/NC2Q]

K1010 Plus Series K1212 Plus Series



SGS 710320

complies with
UL 61010-1
CAN/CSA C22.2

Memo:

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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 may replace the product or faulty parts. Work underguaraantee/warranty must be carried out by JUUKO industrial radio remote control.

The following are NOT covered by the guarantee / warranty:

The following are NOT covered by the guarantee / warranty:

- •Faults resulting from normal wear and tear.
- •Parts of a consumable narure 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 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.

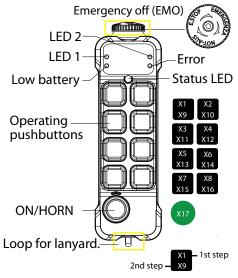
INTENDED USE

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

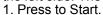
The receiving unit accepts signals from the Radio Transmitter and processes them to open or close specific relays for Hoist, Trolley, Bridge and various auxiliary functions.

The K Plus series transmitter comes in different versions, featuring 10 or 12 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:



2. Press for horn while operating.





Start the transmitter in operating mode

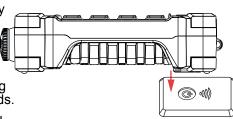
- 1. Turn to release the Emergency Off button.
- 2. Press the "START" button.

Turning the transmitter off

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

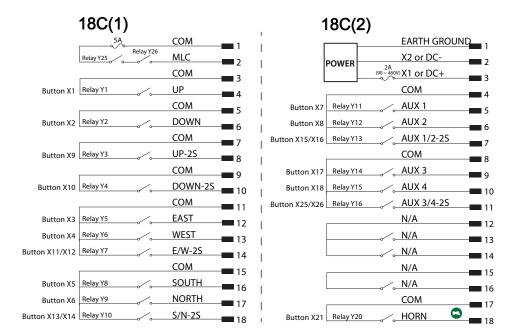
How to use Qi wireless charging

- 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.





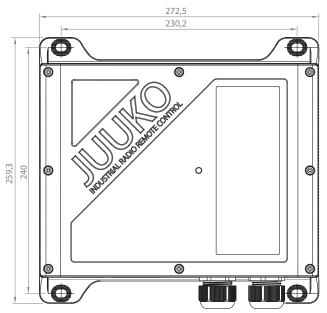
K1010 Plus

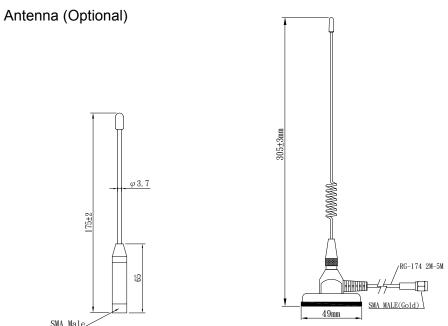


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Chapter 3: Receiver

Receiver Dimensions (Not to scale)

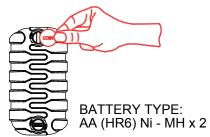




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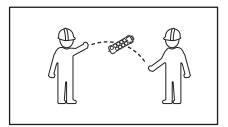


Changing the batteries:



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.

Technical Data

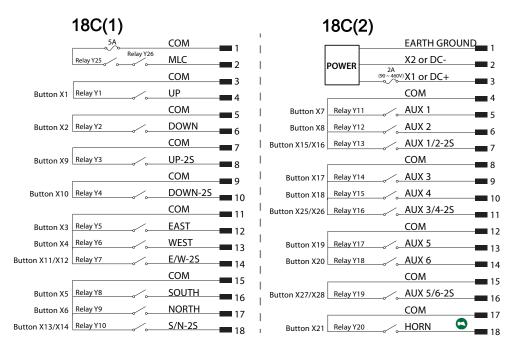
Transmitter

Frequency range	902.5 ~ 927.5MHz		
Modulation method	2 GFSK		
Typical operating range	300 feet		
Control system	PLL (Phase Lock Loop)		
Antenna impedance	50 ohms		
Typical response time for commands	50ms ~ 100ms		
Power supply	AA(HR6) Ni-MH x 2		
Antenna	Internal		
Average power consumption	38mA@2.5V dc(default setting)		
Radio-frequency power	<15dBm (default setting)		
Operating and storage temperature	(- 4°F) - (131°F) / (- 40°F) - (149°F)		
Protection degree	IP65		
Dimensions	188.5× 57.3 × 52.3mm (2-8 buttons)		
Weight (including battery)	Approx. 11.46 ounces		
Housing material	PA6(30% Glass Fiber)		

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K1212 Plus Wiring Diagram





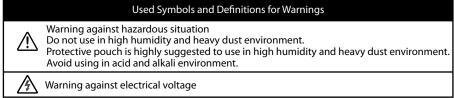
Thank you for purchasing a JUUKO industrial radio remote control.

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

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

General Information on Safety

- •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 accor dance with the relevant safety requirements.
- •In the event of malfunctioning, visible defects or irregularities, the product must be stopped, switched off and the relevant master switches must be switched off.



FCC Part 15 FCC ID: TX-(RN489896162JK9155) / RX-(RN489896162JK915) IC: TX-(10821A-89896162902) / RX-(10821A-89896162901)

A user's manual for the finished product should include the following statement: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates , uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Additional information on labeling and user information requirements for Part 15 devices can be found in KDB Publication 784748 available at the FCC Office of Engineering and Technology (OET) Laboratory Division Knowledge Database (KDB) http://apps.fcc.gov/oetcf/kdb/index.cfm.

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 stand

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

EMC: ETSI EN30 1489-1 V1.9.2 2001-09; 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 tel

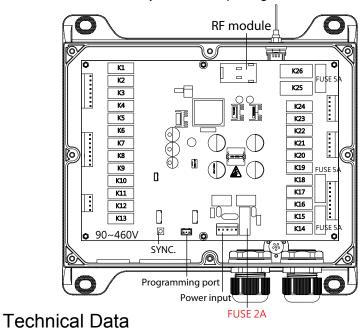
C€0560

IC Statement

This device complies with Industry Canada license-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.

Receiver

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.



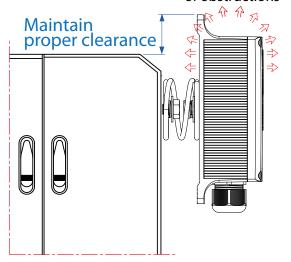
Frequency range	902.5 ~ 927.5 MHz		
Modulation method	2 GFSK		
Sensitivity	-112dBm@baud 1.2K bps		
Control system	PLL		
Antenna impedance	50 ohms		
Typical response time for commands	50ms ~ 100ms		
Input power(AC)	90 ~ 240V AC , 50/60Hz		
Input power(DC)	90 ~ 160V DC		
Power consumption	AC: 10.4W, DC: 22.4W		
Power system	switching		
Antenna	External		
Standby power	1.13W		
Operating temperature	(-20°C) - (+55°C)		
Storage temperature	(-40°C) - (+70°C)		
Dimensions	272.5 x 259.3 x 95.7(mm)		
Weight	6.5Lbs.		
Remote control channel	21		
Housing material	PA6(30% Glass Filled)		
Operation altitude	2000m		

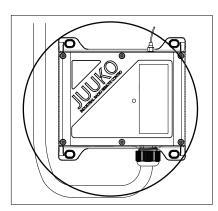


Instruction guide

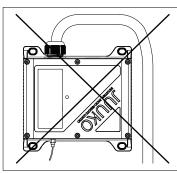
WARNING! DO NOT FLUSH MOUNT THE RECEIVING ASSEMBLY. PLEASE MAINTAIN PROPER CLEARANCE AS SHOWN. PLEASE USE THE SUPPLIED MOUNT!

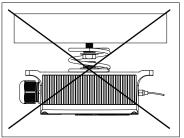
Area must be free of obstructions





Do not flush mount
Use the supplied mounting spring.





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