Transmitter

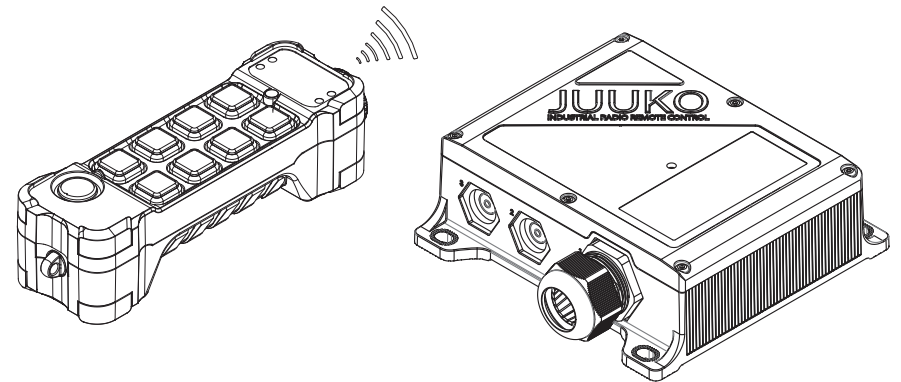| LED ● SHORT ▬ LONG			Failure Analysis	Solution
STATUS	LED red	LED green	-Corrosion on the battery terminals. -Low battery. -Damage batteries.	-Clean the battery terminals. -Replace the batteries.
🔋	●●●●●●			
⚠				
STATUS	LED red	LED green	-Transmitter is not communicating with the receiver.	-Check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

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

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

JUUKO
INDUSTRIAL RADIO REMOTE CONTROL

Radio remote control system
BASIC INSTALLATION INSTRUCTIONS

【NC2 / NC2Q】

K202 Plus Series
K404 Plus Series
K606 Plus Series
K806 Plus Series
K808 Plus Series

【HS】（NC2/NC2Q）
915MHZ

SGS
C US
710320

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

Contents

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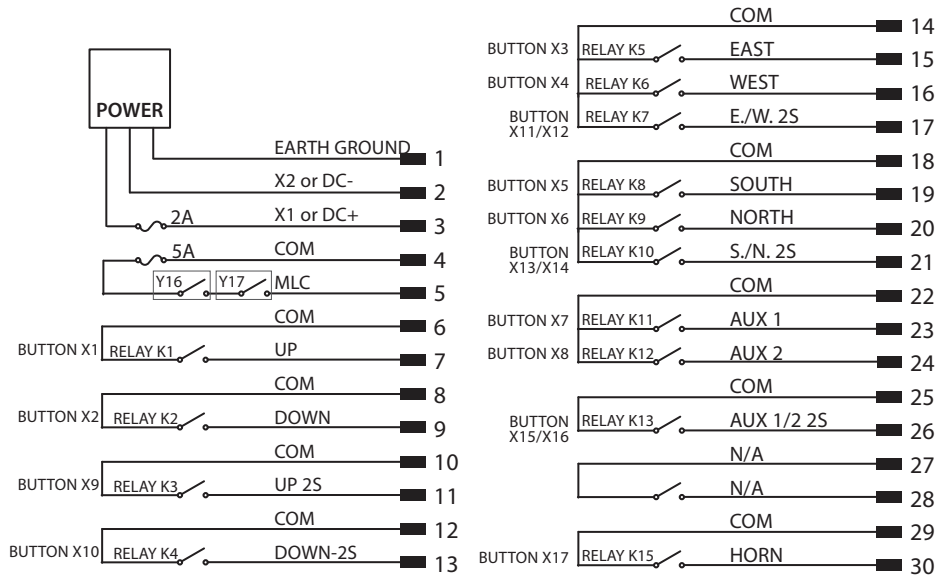
INTENDED USE
The HS and HM Receiving units are intended as the control unit interface for the Radio Remote Control for Hoists, Cranes, Monorail and Material Handling equipment.

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.

Memo:

K808 Plus

POWER

EARTH GROUND — 1
X2 or DC- — 2
2A — X1 or DC+ — 3
5A — COM — 4
Y16 | Y17 — MLC — 5
COM — 6
BUTTON X1 — RELAY K1 — UP — 7
COM — 8
BUTTON X2 — RELAY K2 — DOWN — 9
COM — 10
BUTTON X9 — RELAY K3 — UP 2S — 11
COM — 12
BUTTON X10 — RELAY K4 — DOWN-2S — 13

COM — 14
BUTTON X3 — RELAY K5 — EAST — 15
BUTTON X4 — RELAY K6 — WEST — 16
BUTTON X11/X12 — RELAY K7 — E./W. 2S — 17
COM — 18
BUTTON X5 — RELAY K8 — SOUTH — 19
BUTTON X6 — RELAY K9 — NORTH — 20
BUTTON X13/X14 — RELAY K10 — S./N. 2S — 21
COM — 22
BUTTON X7 — RELAY K11 — AUX 1 — 23
BUTTON X8 — RELAY K12 — AUX 2 — 24
COM — 25
BUTTON X15/X16 — RELAY K13 — AUX 1/2 2S — 26
N/A — 27
N/A — 28
COM — 29
BUTTON X17 — RELAY K15 — HORN — 30

Memo:

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.

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 FCC ID : TX-(RN489896162JK915S) / 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
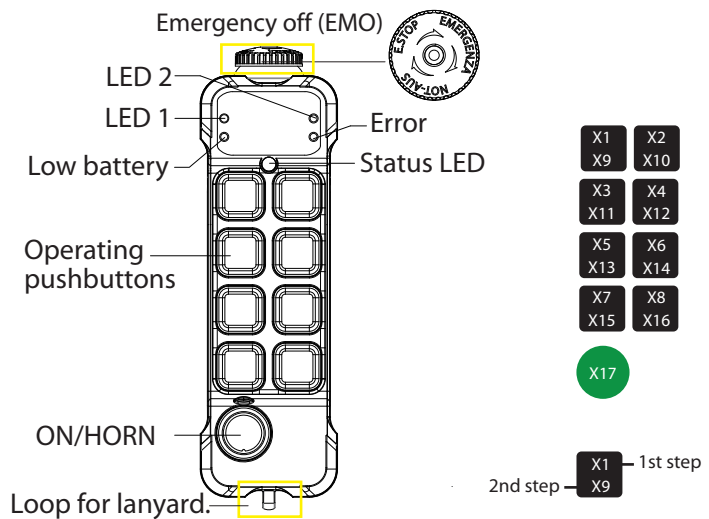
Safety: EN 60950-1:2006+A11:2009+A1:2010+A12:2011
EMC: ETSI EN30 1489-1 V1.9.2 2001-09; ETSI EN 301 489-3 V1.4.1 2002-08
Radio: ETSI EN 300 220-1 v2.4.1: 2012; ETSI EN 300 220-2 v2.4.1: 2012
The following CE marking is valid for EU harmonized tel

CE 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.

The K Plus series transmitter comes in different versions, featuring 2, 4, 6, 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.

Emergency off (EMO)
LED 2
LED 1
Error
Low battery
Status LED
Operating pushbuttons
ON/HORN
Loop for lanyard.

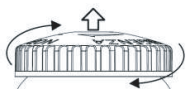| X1 X9 | X2 X10 |
X3 X11	X4 X12
X5 X13	X6 X14
X7 X15	X8 X16

X17

X1 X9 — 1st step
2nd step

Start/ Horn switch

The K series transmitter has a Start/Horn pushbutton onthe left side. The Start/Horn switch has 2 functions:
1. Press to Start.
2. Press for horn while operating.

START

Start the transmitter in operating mode

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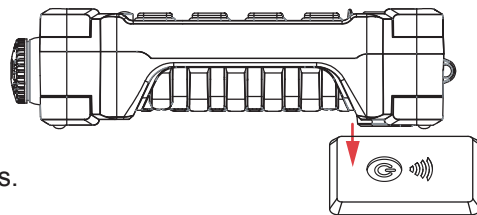2. Press the "START" button.

Turning the transmitter off

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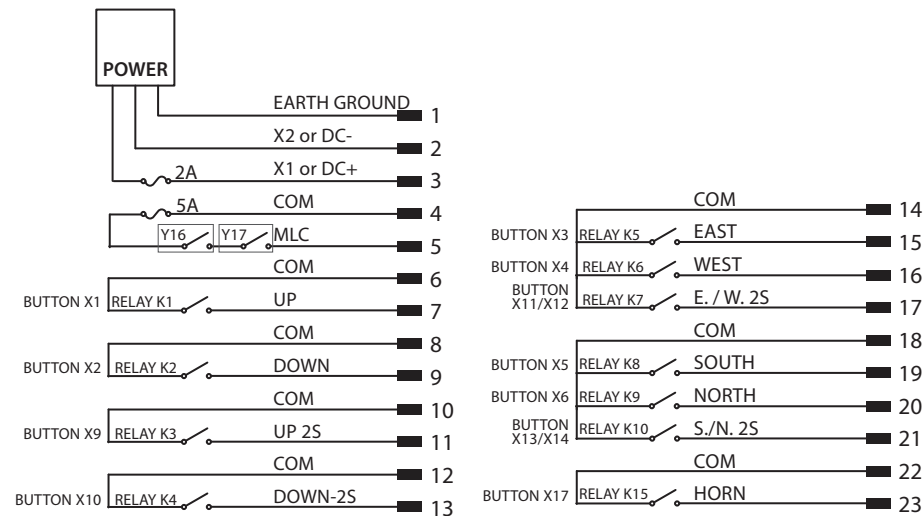
OFF

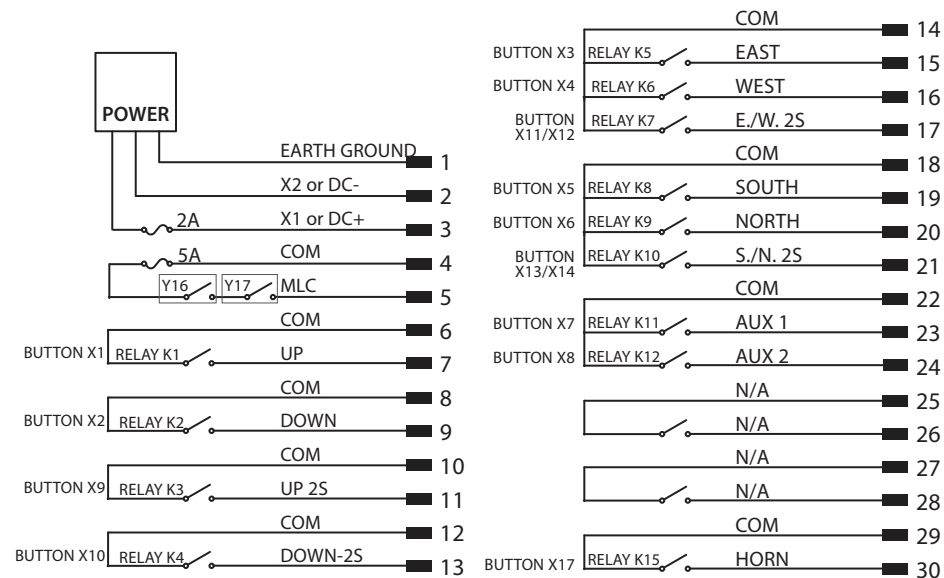## How to use Qi wireless charging

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.

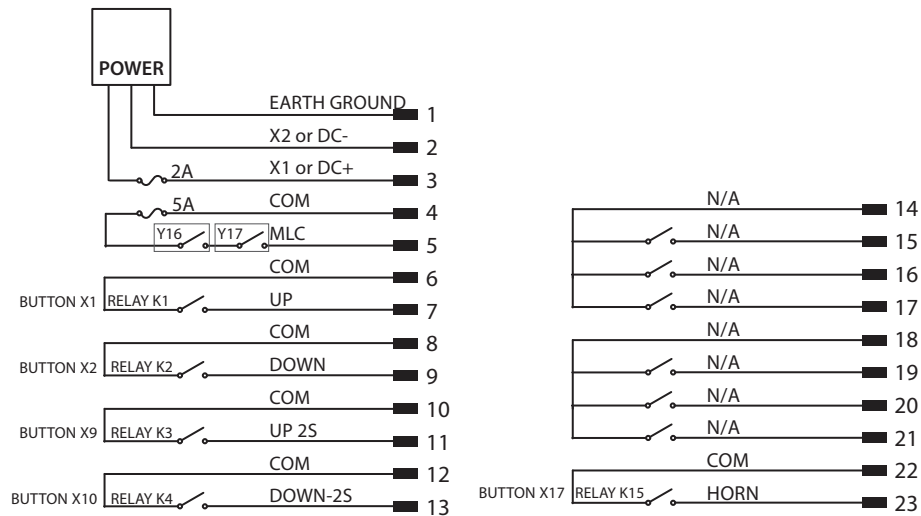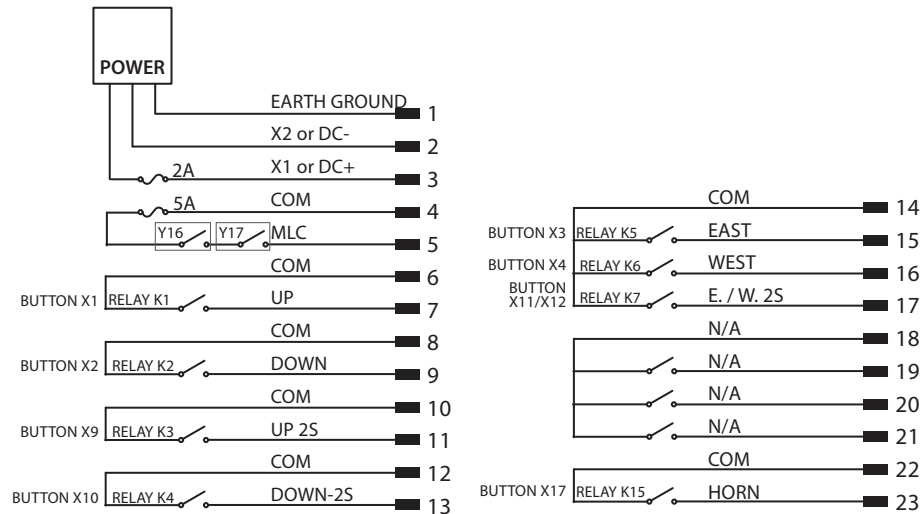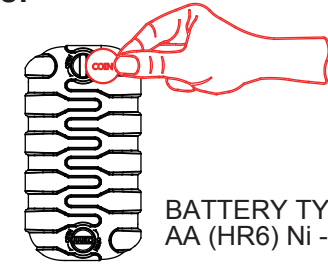3. Remove the transmitter from the pad.

K606 Plus

POWER

EARTH GROUND	1
X2 or DC-	2
2A	X1 or DC+	3
5A	COM	4
Y16 Y17	MLC	5
	COM	6
BUTTON X1 RELAY K1	UP	7
	COM	8
BUTTON X2 RELAY K2	DOWN	9
	COM	10
BUTTON X9 RELAY K3	UP 2S	11
	COM	12
BUTTON X10 RELAY K4	DOWN-2S	13

	COM	14
BUTTON X3 RELAY K5	EAST	15
BUTTON X4 RELAY K6	WEST	16
BUTTON X11/X12 RELAY K7	E. / W. 2S	17
	COM	18
BUTTON X5 RELAY K8	SOUTH	19
BUTTON X6 RELAY K9	NORTH	20
BUTTON X13/X14 RELAY K10	S./N. 2S	21
	COM	22
BUTTON X17 RELAY K15	HORN	23

K806 Plus

POWER

EARTH GROUND	1
X2 or DC-	2
2A	X1 or DC+	3
5A	COM	4
Y16 Y17	MLC	5
	COM	6
BUTTON X1 RELAY K1	UP	7
	COM	8
BUTTON X2 RELAY K2	DOWN	9
	COM	10
BUTTON X9 RELAY K3	UP 2S	11
	COM	12
BUTTON X10 RELAY K4	DOWN-2S	13

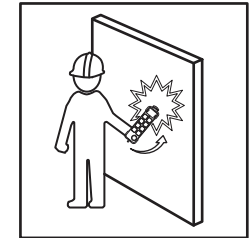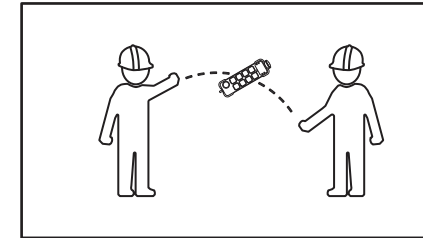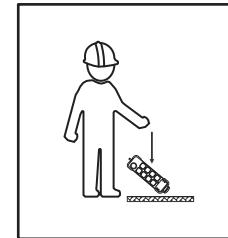|		
	COM	14
BUTTON X3 RELAY K5	EAST	15
BUTTON X4 RELAY K6	WEST	16
BUTTON X11/X12 RELAY K7	E./W. 2S	17
	COM	18
BUTTON X5 RELAY K8	SOUTH	19
BUTTON X6 RELAY K9	NORTH	20
BUTTON X13/X14 RELAY K10	S./N. 2S	21
	COM	22
BUTTON X7 RELAY K11	AUX 1	23
BUTTON X8 RELAY K12	AUX 2	24
	N/A	25
	N/A	26
	N/A	27
	N/A	28
	COM	29
BUTTON X17 RELAY K15	HORN	30

K202 Plus

K404 Plus

Changing the batteries:

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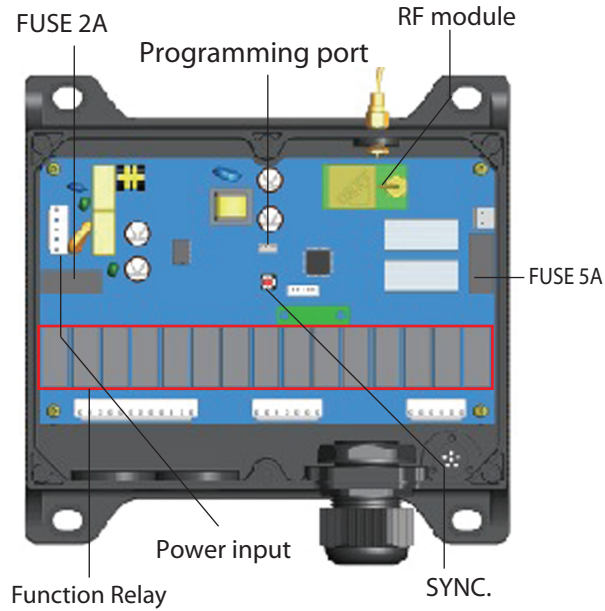AA (HR6) Ni - MH x 2

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

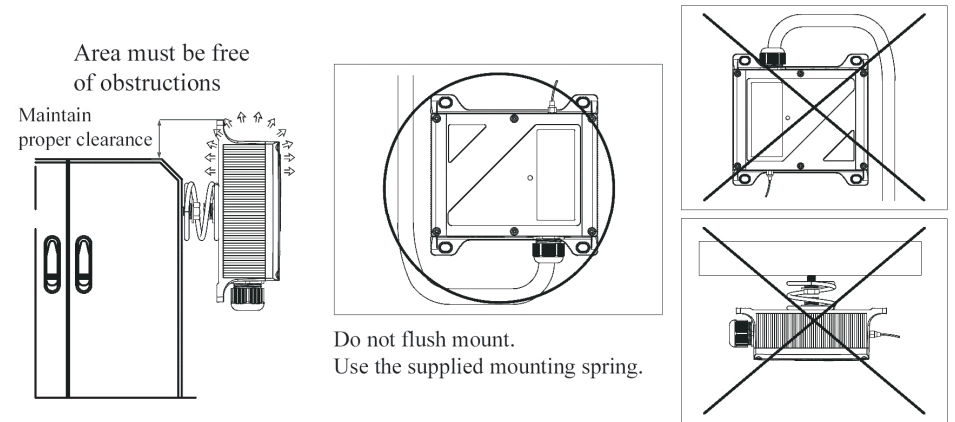|	
Frequency range	902.5 ~ 927.5MHz
Modulation method	2 GFSK
Typical operating range	300 feet
Control system	PLL (Phase Lock Loop)
Antenna impedance	50 ohms
Typical response time for commands	50ms ~ 100ms
Power supply	AA(HR6) Ni-MH x 2
Antenna	Internal
Average power consumption	38mA@2.5V dc(default setting)
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)

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.

- FUSE 2A
- Programming port
- RF module
- FUSE 5A
- Power input
- Function Relay
- SYNC.

Technical Data

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)	24 ~ 240V AC，50/60Hz
Input power(DC)	24 ~ 160V DC
Power consumption	AC：8.3W，DC：12.8W
Power system	switching
Antenna	External
Standby power	0.97W
Operating temperature	(-20°C) - (+55°C)
Storage temperature	(-40°C) - (+70°C)
Dimensions	189.5 x 183.5 x 95.7(mm)
Weight	3.95Lbs.
Remote control channel	17
Housing material	PA6(30% Glass Filled)
Operation altitude	2000m

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

Maintain proper clearance

Do not flush mount.
Use the supplied mounting spring.

Receiver Dimensions (Not to scale)

- 189.5mm
- 156.0mm
- 165.5mm
- 183.5mm
- 202.8mm
- M8 screw recommend
- φ8.0mm
- 46,5mm
- 175±2
- φ3.7
- 65
- SMA Male
- Antenna (Optional)
- 305±3mm
- RG-174 2M-5M
- 49mm
- SMA MALE(Gold)