CONTENTS

Guarantee, service, repairs and maintenance

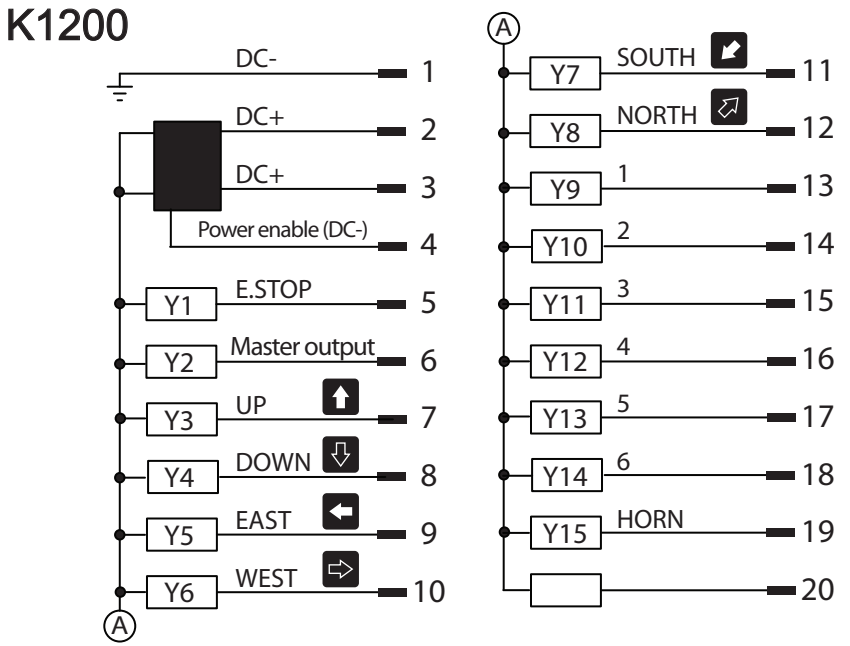
The JUUKO products are covered by a guarantee/warranty against material, construction and manufacturing faults. During the guarantee/warranty period, JUUKO may replace the product or faulty parts. Work under guarantee/warranty must be carried out by JUUKO or by an authorized service centre specified by JUUKO.

This is not covered by the guarantee/ warranty:

- Faults resulting from normal wear and tear
- Parts of a consumable nature
- 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 only
- 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



What is the MASTER Output for ?

It is used to operate the pump of an electro-hydraulic power pack or maybe a clutch pump. It can also be used for powering a dump valve, master valve etc. It can be configured to work continuously, that is ON when START is pressed and OFF when STOP is pressed; or in parallel with any output (default setting), that is, it is active only a function is operated. If it is needed with certain functions only, this can easily be configured.

⚠

1. The Receiver is designed to carry a maximum of 15 Amps. That is, for example,15 Amps through one output or 5 Amps each through 3 outputs.

2. Master Output. This can be configured to Continuous or Parallel operation, see wiring diagram for details.

3.Safety Feature. Both the Transmitter and the Receiver will “time out” after 30 minutes of inactivity. This can be altered, ask your dealer.

Transmitter

LED Signal (● 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

Receiver

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

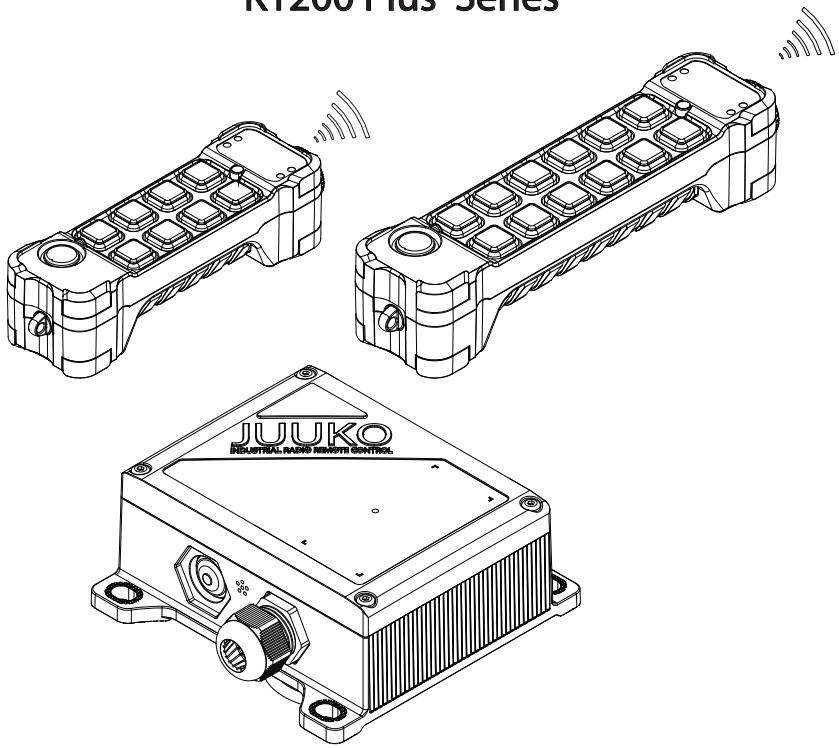
LED Signal (● SHORT, — LONG)	Failure Analysis	Solution
STATUS: LED red —●●●, LED green —	-RF error	-Check the antenna and make sure it is not loose. -Change a new RF module. -Contact dealer
STATUS: LED red —, LED green —	-Receiver is not powered.	-Check the fuse. -Check the power supply.
STATUS: LED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

Radio remote control system

BASIC INSTALLATION INSTRUCTIONS

【NC2/NC2Q】

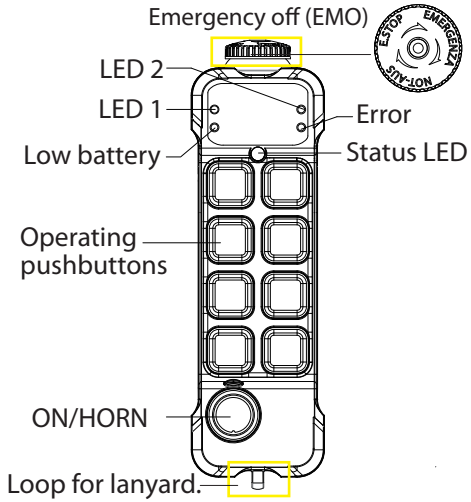
K200 Plus Series
K400 Plus Series
K600 Plus Series
K800 Plus Series
K808 Plus Series
K1000 Plus Series
K1200 Plus Series

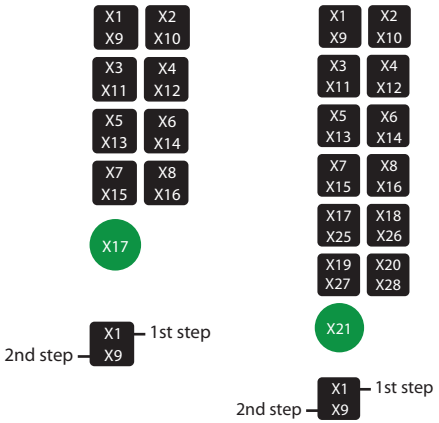


【HV】(NC2/NC2Q)
915MHZ

JUUKO
INDUSTRIAL RADIO REMOTE CONTROL

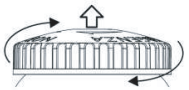
The K Plus series transmitter comes in different versions, featuring 2, 4, 6, , 8, 10 or 12 pushbuttons. The transmitter also features 2-step pushbuttons. Both steps of each pushbutton can operate different functions like controlling the speed of a movement, step 1: slow, step 2: fast.





Start/ Horn switch

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

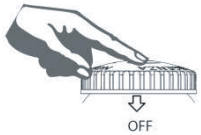


Start the transmitter in operating mode

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

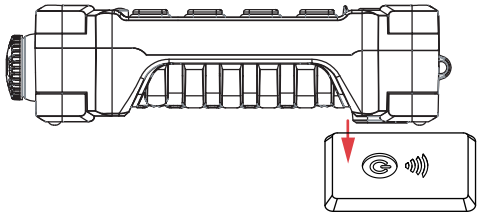
Turning the transmitter off

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

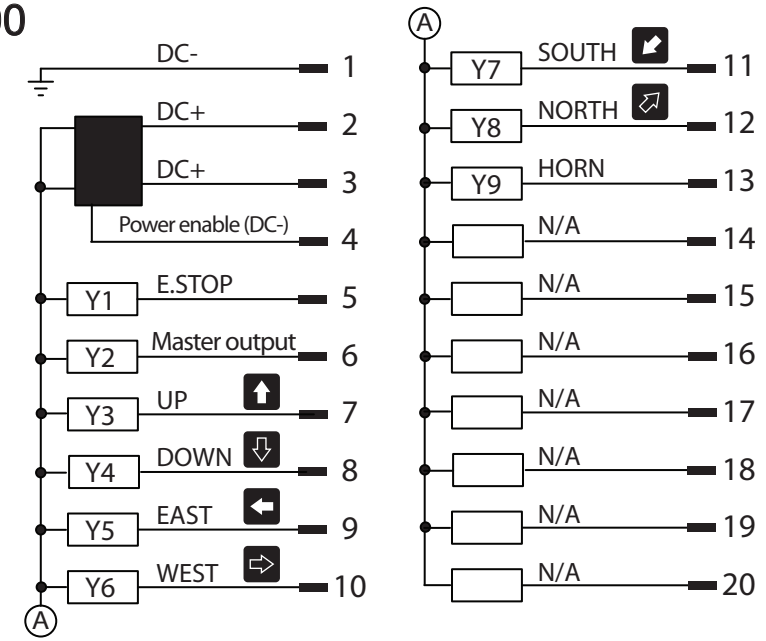


How to use Qi wireless charging (Optional)

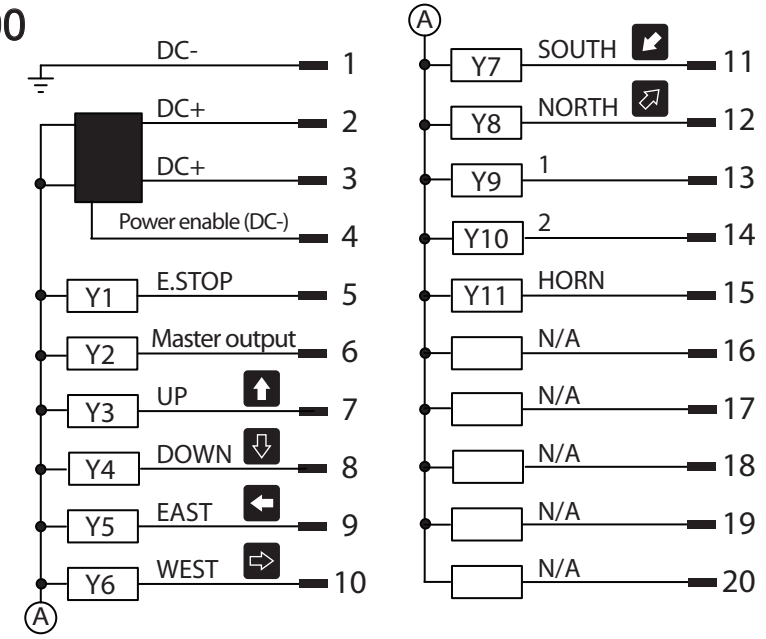
1. Turn the transmitter off by completely pressing the emergency off button.
2. Place the transmitter on top of the wireless charging pad. You'll hear a beep, the battery LED flash every 1 second. When it's finished charging the battery LED flash every 5 seconds.
3. Remove the transmitter from the pad.



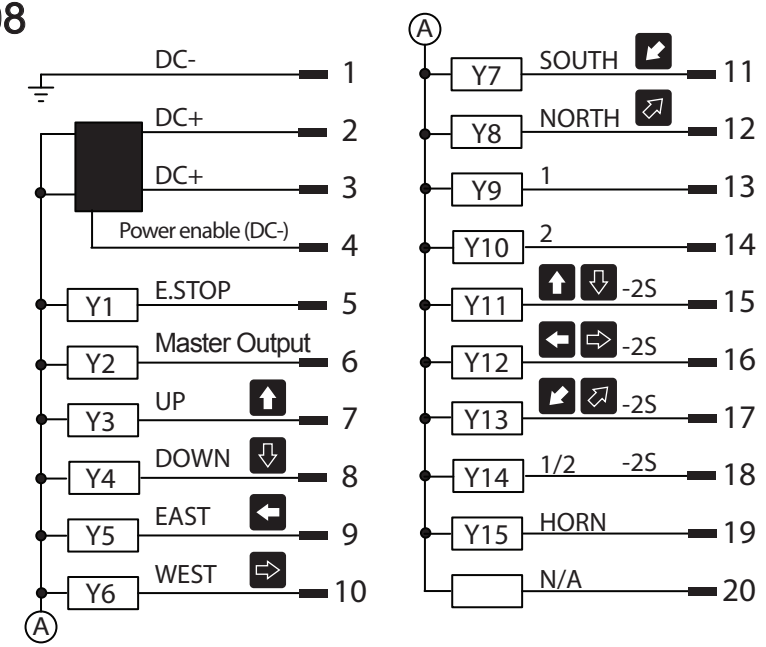
K600



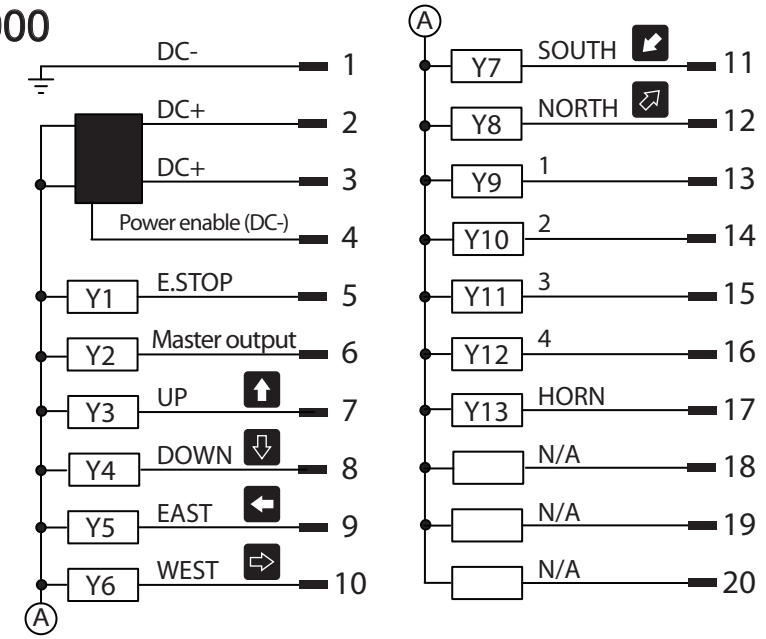
K800



K808



K1000



Thank you for purchasing a JUUKO product.

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 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 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 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

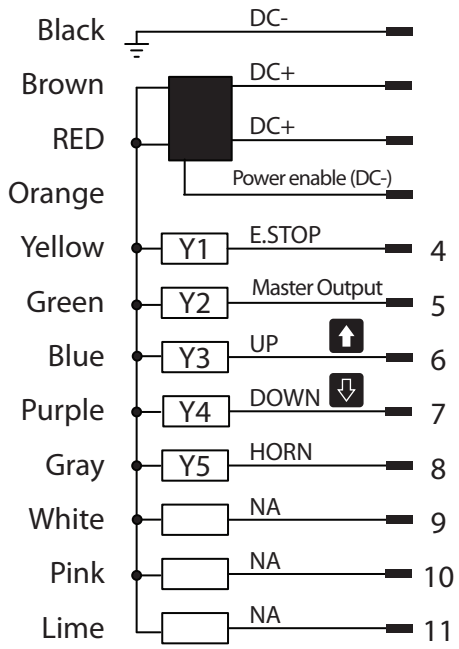
The following CE marking is valid for EU harmonized tel

CE 0560

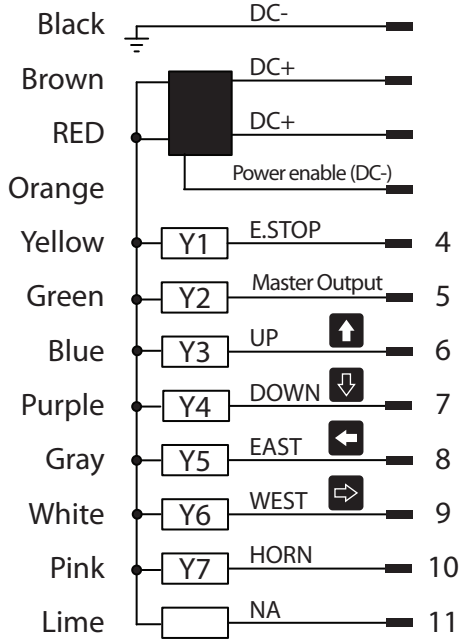
IC Statement

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.

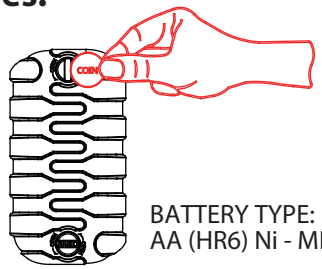
K200



K400

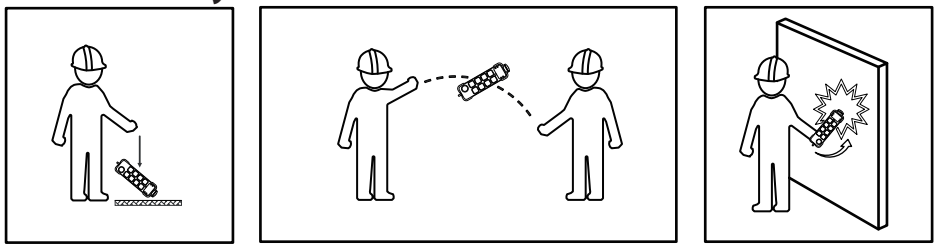


Changing the batteries:



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.

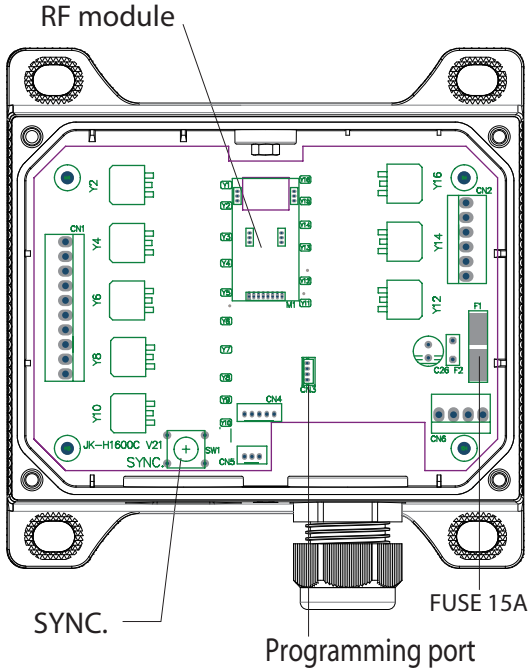
Technical data

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)
	230× 57.3 × 52.3mm (10-12 buttons)
Weight (including battery)	Approx.325g(2-8 buttons) ; Approx.390g(10-12 buttons)
Housing material	PA6(30% Glass Fiber)

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.



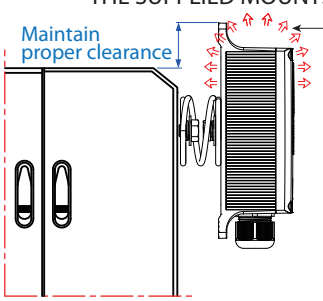
Technical data

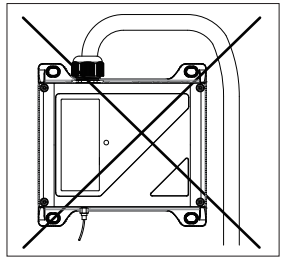
Receiver

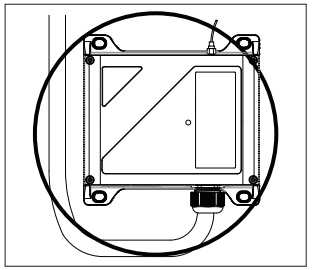
Frequency	902.5 ~ 927.5 MHz
Modulation method	2 GFSK
Sensitivity	-112dBm@baud1.2K bps
Control system	PLL
Antenna impedance	50Ω
Typical response time for Stop command and commands	50mS~100mS
Power supply	Specified on the receiver
Antenna	Internal (External as optional)
Standby power	16mA
Operating and storage temperature	(-20°C)~(+55°C)/(-40°C)~(+65°C)
Protection degree	IP65
Dimensions	142×141.2×58.5 (mm)
Weight	800g
Housing material	PA6(30% GF)

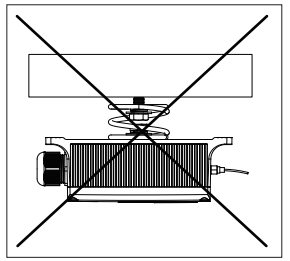
Instruction guide

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





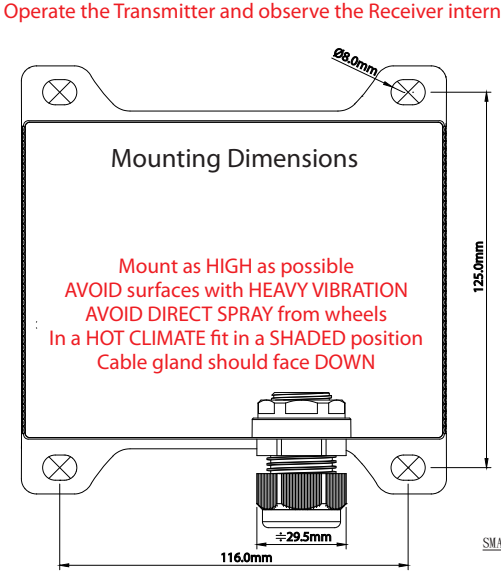




Do not flush mount.
Use the supplied mounting spring

TAKE TIME TO LOCATE THE BEST POSITION

If necessary, power the Receiver and move it around the vehicle until the required performance is achieved.
Operate the Transmitter and observe the Receiver internal LED's



Antenna **(Optional)**