

Please read the manual before use and keep for future reference

## Specification

<b>Operating Voltage</b>	10 to 26 VDC
<b>Current Consumption @ 10 VDC</b>	Standby 55 mA, All relays 230 mA
<b>Current Consumption @ 12 VDC</b>	Standby 70 mA, All relays 290 mA
<b>Current Consumption @ 26 VDC</b>	Standby 170 mA, All relays 460 mA
<b>Dimensions</b>	110L x 75W x 31H (mm)
<b>Case Materials</b>	ABS Plastic
<b>Output Channels</b>	6 channels; each can be selected individually with output in any one of 3 modes latching, momentary or timed (5 seconds)

<b>Reverse Polarity Protection</b>	Yes ( Diode)
<b>RF Operating Frequency</b>	433.92 MHz
<b>RF Signal type</b>	KEELOQ® Code Hopping, On Off Keying (OOK)
<b>Coding Combination</b>	Over 4 billion
<b>Learning Capacity (RF devices)</b>	240 keyfobs or transmitters
<b>RF working distance</b>	100 meter open air, 30 meter typical urban environment.

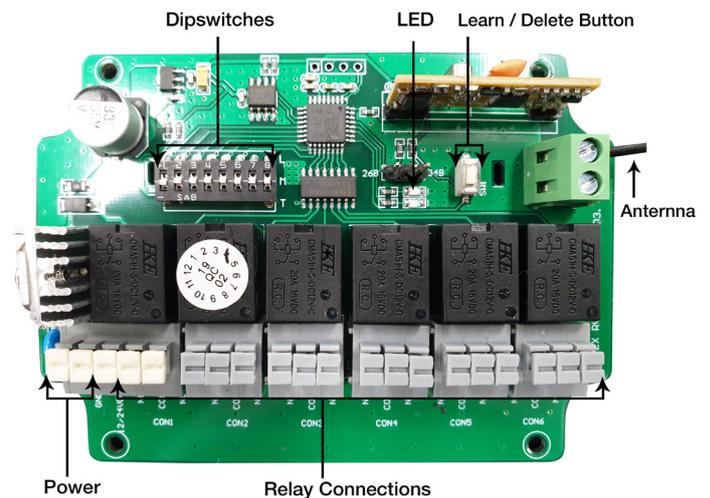
Neptune reserves the right to change specifications without notice in the interest of product development.

## Product Overview

The Neptune 6-channel receiver is a multi-purpose 6 channel RF receiver. Six single pole triple throw (SPTT) outputs are available for connection to control external devices. The receiver is designed for use with keyfobs of 6 channels or less. Each channel is individually programmable through onboard dipswitches to one of 3 operational modes of relay outputs (momentary, latching and timed for 5 seconds). Our receivers use KEELOQ® Code Hopping technology for secure RF transmission.

## Installation Guide

For best performance the receiver should not be installed on or next to a metallic surface. If unavoidable you may need to connect an extended antenna to the receiver to create distance from the metallic surface. If the receiving distance is poor or you get interference from other devices you may improve this by relocating the receiver to another location.



## Keyfob Learning

This receiver employs code learning technology and makes the learning process a simple task. Each receiver can learn up to 240 keyfobs.

1. We recommend when setting up the receiver for the first time to clear the memory of the EEPROM. This is done by pressing and holding the Learn / Delete button for 5 seconds. The LED on the board will flash twice and then go out to indicate the EEPROM memory is now empty.
2. To learn a new keyfob into the memory press the Learn / Delete button once. The LED will light to indicate it is in learning state.
3. A keyfob is learned by the receiver by pressing any button on the fob once. The LED will flash to indicate successful learning. Each channel on the receiver will learn a different button on your keyfob with a maximum of 6 Channels available depending on your keyfob.
4. Additional keyfobs can be continuously learned to the receiver by pressing the button of the keyfob while in the learning mode. To exit learning mode press the Learn / Delete button once. Alternatively the receiver will automatically exit learning mode if no further programming action is taken after 5 seconds.

## Deletion of Keyfobs

Press and hold the Learn / Delete button for 5 seconds. The LED will flash twice and go out to indicate successful removal of previous learned keyfobs from the EEPROM memory. It is not possible to delete individual keyfobs.

## Relay Setting

There is a 6-way single pole triple throw (SPTT) DIP switch (each channel with relay output) on the receiver. Each of the relays can be set individually to any of the 3 different operational modes by setting the position of the DIP switch as follows –

1. **Position ( + ) Latching Mode:** - Each transmission from keyfob will change the On or Off status of the relay.
2. **Position ( 0 ) Momentary Mode:** - The relay output is continuously on while a RF transmission is received (the pressing on the button of keyfob).
3. **Position ( - ) Fixed Time ( 5 seconds ) Mode:** - The relay output will be on for 5 seconds.

## Warranty

Neptune warrants that product to be free from defects in materials and workmanship for a period of 1 year from date of purchase. In the event of failure, the manufacturer will repair or replace the product at its sole discretion. It will not be responsible for any loss or damages in association with use of its products. This warranty does not apply in the event of accidental damage, improper use, abuse, misuse, non approved purpose or act of God.