

Specification

Operating Voltage	12-24 VDC
LED indicator	Red LED - Reception of KEELOQ® RF signal Blue LED - Transmission of Wiegand signal
Current Consumption @ 12 VDC	10 mA maximum
Physical Dimensions	124L x 32W x 80H (mm) (includes mounting tabs)
Case Material	ABS plastic
Output Channels	6
Output Options	Jumper shunt selectable INT: 10K pull up to 5 VDC Removed: Open Collector EXT: +5 VDC output terminal active for selection of user

Reverse Polarity Protection	Yes (Diode)
RF Operating Frequency	433MHz
Wiegand outputs	Standard Wiegand 26 bits Wiegand 34 bits available at special request
RF Signal type (Data Transfer)	KEELOQ® Code Hopping, On Off keying (OOK)
Coding Combination	4.2 billion
Compliance	CE
RF working distance	100 meter open air, 30 meter typical urban environment.

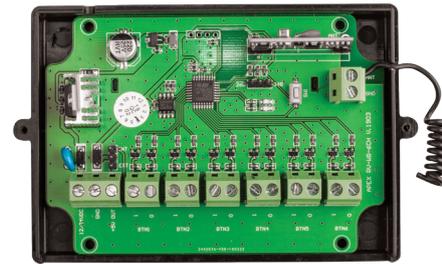
Neptune reserves the right to change specifications without notice in the interest of product development.

Product Overview

The Neptune 6 channel Wiegand receiver is a long range, high security RF receiver which employs KEELOQ® code hopping technology. It provides 6 output channels of 26 bit Wiegand protocol and connects to the controller in the same way as a typical card reader. 34 bit Wiegand can be provided upon special request.

The RF signal sent from the Neptune keyfob is encrypted with KEELOQ® Code Hopping technology. The receiver then decodes it into a Wiegand 26 bit number and the output which corresponds to number pressed on the fob being 1,2,3,4, 5 or 6. This Wiegand ID information is then directed to the input on the access control panel. In this mode up to 6 entry points / devices can be controlled by the receiver.

There is virtually no limit for the number of keyfobs encoded with Wiegand 26 bit code that can be processed by the receiver. The Neptune wireless Wiegand receiver will only work with keyfobs encrypted with KEELOQ® code hopping technology.



Note:

1. Our range of Neptune keyfobs can be optionally supplied with embedded coils and programmed in HID, EM or Mifare format for further integration into your access control system.
2. All of our Wiegand keyfobs are compatible with our Neptune 6 channel relay receivers with 6 channels of relay output. Ideal for controlling multiple devices such as electric locks, garage doors and gates, for example.

Installation and Setup

1. 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.
2. Connect receiver to a DC power source (12 - 24 VDC) and connect the Wiegand outputs (D1 & D0) from the receiver to the Wiegand 26 access control system. The Wiegand ID outputs of the receiver can also be connected in parallel with the output of any card reader to the Access Control System.
3. By default, all Neptune Wiegand 6 channel receivers are factory set for operation with Wiegand 26 bit code which is the most common for access control systems. Setting for Wiegand 34 bit is available upon special request.
4. The learning of the Neptune keyfob is easy by simply pressing on any button of keyfob twice. The successful learning of keyfob to the Wiegand Receiver will be indicated by the flashing of RED LED and then followed by BLUE LED. Additional keyfobs can be learned to the system any time by pressing any button of the keyfob. If on pressing any button of the keyfob, the RED LED only flashes once and without flashing of BLUE LED follows, it indicates an unsuccessful learning to the receiver. This is possibly due to that the keyfob is not of the same secure encryption. Alternatively as all remotes come pre-programmed with a site code and user number. When the receiver is connected via Wiegand some access control systems will register a user input when a button on the remote is pressed. You can then highlight this entry in the software and add the user information from there.
5. Test the keyfobs and Wiegand Receiver with the access control systems.

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, manufacturer will repair or replace the product at its sole discretion, and will not be responsible for any loss or damages in association with uses 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.