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AKRX64-S Receiver Instructions

Description

The AKRX64-S is a self-contained 433.92MHz rolling key receiver designed to be directly interfaced with any devices or controllers able to utilise a dry contact relay signal. With it's 4 on-board 1 Amp (max resistive) 125 VAC rated dry contact relay outputs, this receiver can be connected across existing push buttons connected to various door and gate controllers or used to switch power directly to a vast number of electrical or electronic products.

Power Supply Configuration

This receiver is capable of being powered with voltages ranging from 12 – 28 volts AC or DC. To operate receiver on 12-28VAC or >=12VDC, place the power link (near the heatsink) on **HV**. To operate on a 12V battery, place the power link on **LV**. This will enable the relays to continue operating with a supply voltage down to 10V.

Channel Setting

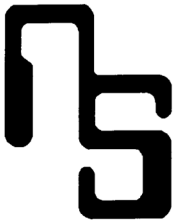
The receiver can learn up to 340 unique (2, 4 or 6 button) transmitters. The table below shows all possible configuration options that can be set by selectively placing links across the **M1**, **M2** and **FF** pins.

The factory default setting of the AKRX64-S with all links removed is for the left hand button of an AKTX2 or top left hand button of an AKTX4 or button 1 of an AK2TX4 or AK2TX6 activating relay 1. The right hand button of an AKTX2 or the top right hand button of an AKTX4 or button 2 of an AK2TX4 or AK2TX6 activating relay 2. The bottom left hand button of an AKTX4 or button 3 of an AK2TX4 or AK2TX6 activating relay 3 and the bottom right hand button of an AKTX4 or button 4 of an AK2TX4 or AK2TX6 activating relay 4.

Links			Operating Function	Output			
M1	M2	FF		Ch 1	Ch 2	Ch 3	Ch 4
OFF	OFF	OFF	Momentary Pulse	1	2	3	4
ON	OFF	OFF		3	4	5	6
OFF	ON	OFF	Hold Output	1	2	3	4
ON	ON	OFF		3	4	5	6
OFF	OFF	ON	Flip-Flop	1	2	3	4
ON	OFF	ON		3	4	5	6
OFF	ON	ON	Momentary & Flip-Flop	1 (mom)	2 (mom)	3 (FF)	4 (FF)
ON	ON	ON		3 (mom)	4 (Mom)	5 (FF)	6 (FF)

For operations that describe a momentary output, the output relay is triggered for 300 milliseconds. Where the output is Flip-Flop, the relay will maintain it's new state indefinitely until triggered by another button press.

For Hold modes, the relay will remain active for up to 20 seconds as long as the button of the Airkey is held on and the Airkey is transmitting.



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Programming

The AKRX64-S has a remote learning function allowing users to add new Airkeys into a receiver without direct access to the receiver itself. This function is invoked when the 5 pin green socket is plugged into the 5 pin ICSP header with the bevelled end pointing towards the centre of the receiver as below:

