# Installation Instructions
## RKF-001 - Remote Keyfob and Receiver Kit

### General Information
The RKF-001 kit is designed for general use analog wireless remote control. The RKF-001 transmitter features a compact IP68 rated design suited for use in marine conditions. The transmitter's paired receiver features (1) double throw relay and (3) single throw relay connections operated remotely by the (4) keyfob buttons. The transmitter and receiver feature KeeLoq® rolling code technology used as a security measure for encrypting it's 433.92 MHz radio frequency transmission and eliminate the chances of 'code snatching'. The RKF-001 has an open air range of 196ft and can be applied to any MPower CLMD(xx), Octoplex SIU, Maretron RIM100 or SIM100 Inputs, or used as a stand- alone device. The RKF-001 is commonly used to switch both analog circuits for some channels and used to input to a digital Maretron device for other channels.
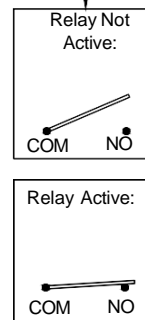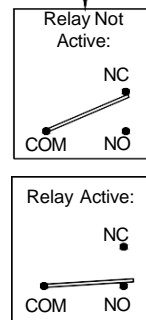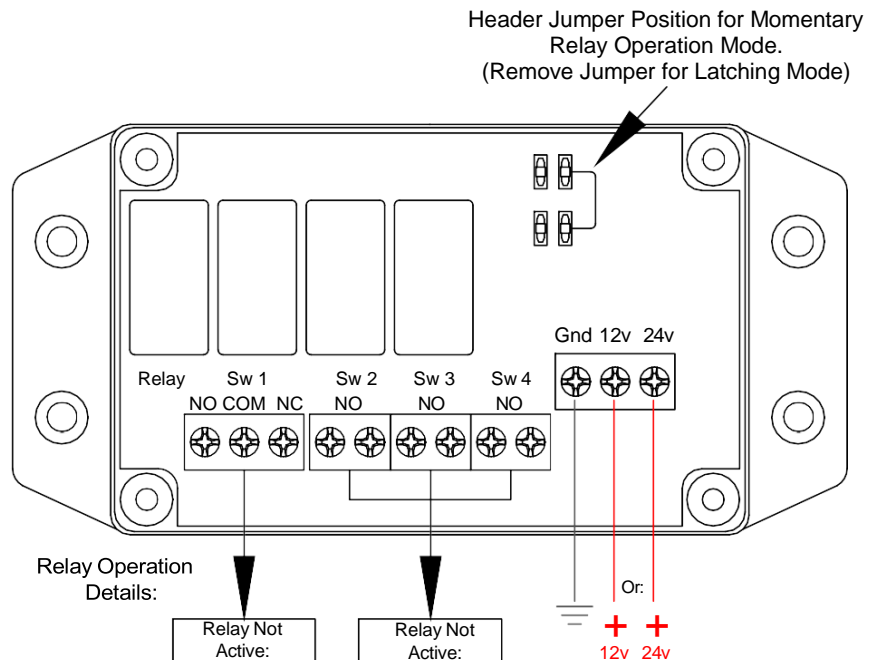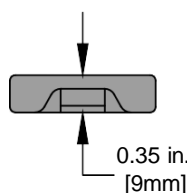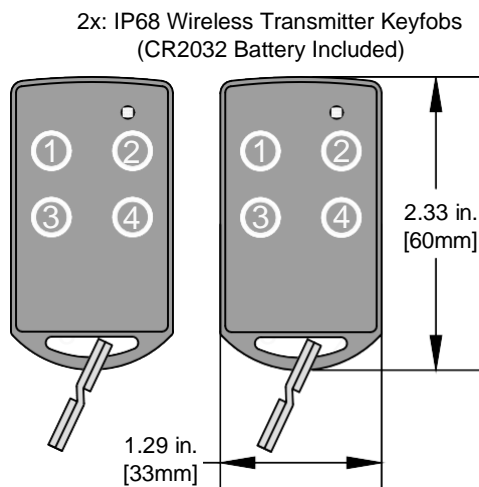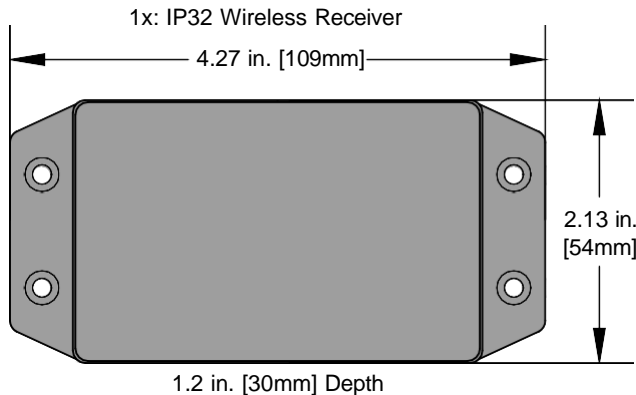
### Installation Guidelines
- When using RKF-001 wired to any MPower CLMD(xx), Octoplex SIU or Maretron RIM100 only a single signal wire is needed to wire the two devices together and the input polarity can be chosen. When using RKF-001 wired to a SIM100, a wire pair must be used to wire the two devices together.
- The RKF-001 requires a #1 Philips screwdriver for wiring the device. All wiring to the device is made by set-screw terminal connections accepting up to 14 AWG wire. Four (4) #8 x 5/8" screws are recommended for mounting RKF-001. Mounting hardware is not Included.
- The receiver's (4) relays are rated 5A, 12-24v DC or 5A, 0-230V AC and can be switched by the transmitter keyfob in either 'Momentary' or 'Latching' mode configured by applying or removing an internal jumper.

**WARNING:** Never mix AC and DC switching within the RKF-001 device. The RKF-001 may only switch one power type within the same device. It is the installer's responsibility to ensure proper circuit protection for any load being switched through the RKF-001.

### Wiring & Programming Instructions



Header Jumper Position for Momentary Relay Operation Mode.
(Remove Jumper for Latching Mode)

1x: IP32 Wireless Receiver
4.27 in. [109mm]
2.13 in. [54mm]
1.2 in. [30mm] Depth

2x: IP68 Wireless Transmitter Keyfobs
(CR2032 Battery Included)
2.33 in. [60mm]
0.35 in. [9mm]
1.29 in. [33mm]

Gnd 12v 24v

Relay Sw 1 Sw 2 Sw 3 Sw 4
NO COM NC NO NO NO

Relay Operation Details:
Or:
12v 24v

Relay Not Active:
NC
COM NO

Relay Not Active:
NC
COM NO

Relay Active:
NC
COM NO

Relay Active:
NC
COM NO

**Pairing Keyfobs:**

Briefly short the two 'learn' pins on the receiver PCB using the header jumper, the receiver relays will click continuously.
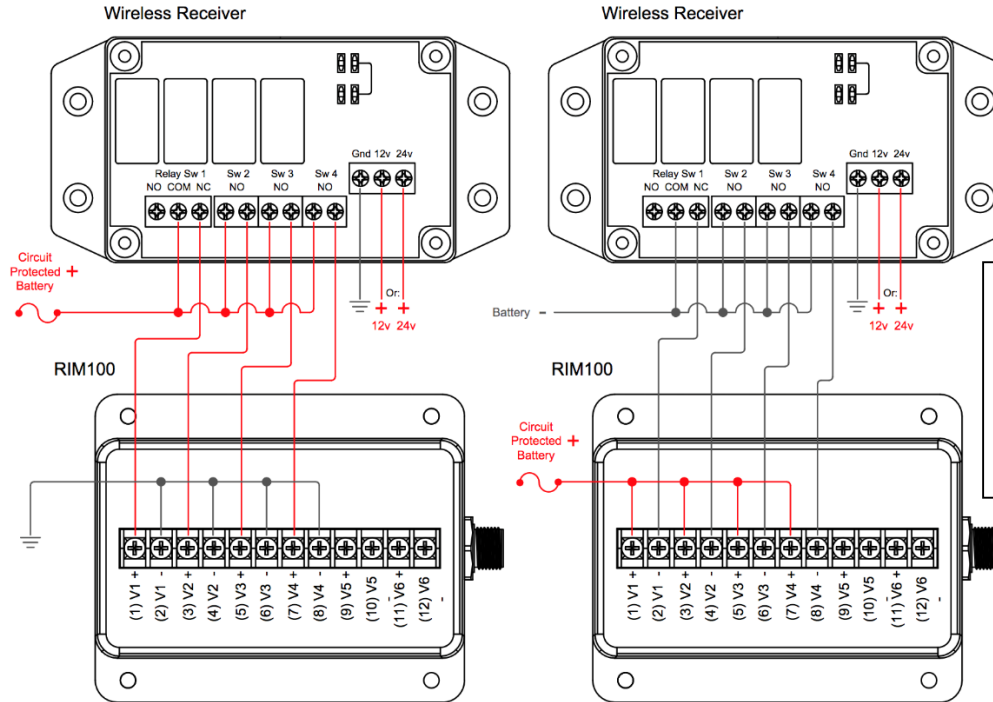
Press any transmitter button once, the receiver relays will stop clicking.

Press the same transmitter button again, the receiver relays will 'buzz' briefly.
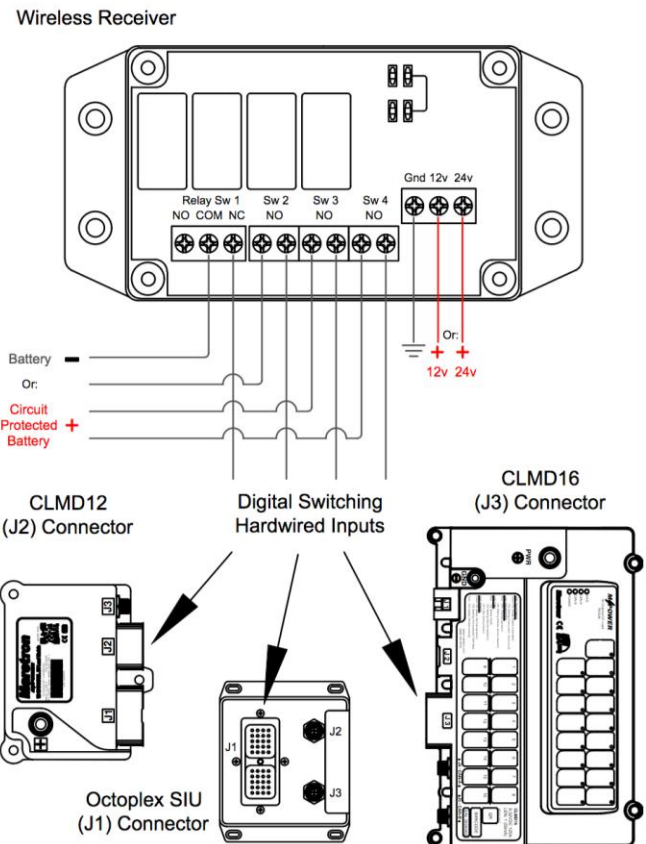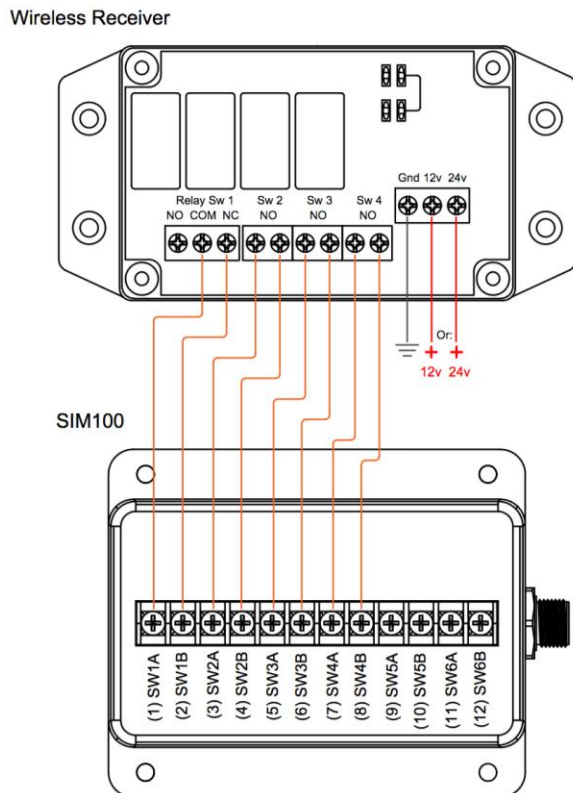
After a short time delay for reset, the transmitter will operate the receiver

Note: Shorting the 'learn' pins for more than 10s will erase all programmed transmitter keyfobs.

# Application Specific Wiring Suggestions



**Note:**
When wiring the RKF-001 to RIM100, the channels can receive DC (+) on all channels, DC (-) on all channels, or any combination of both DC (+) and DC (-) signals.

**For installation support, please contact:**

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