Specifications

Operating Voltage	12 to 24VAC or DC
Current Consumption @ 12VDC	15mA standby 36mA both relays latched
Physical Dimensions	79 x 55 x 25 mm
Antenna	165mm x 1mm wire
Output Channels	2
Output Type	SPDT Relay
Relay Rating	1A @ 30VDC
Output Options	Shunt selectable
Reverse Polarity Protection	Yes (diode)
RF Operating Frequency	433.42mhz
RF Signal Type (Data Transfer)	DSRF Manchester code
Memory Capacity	200 Keyfobs
Country of Manufacture	Australia
Compliance	AS4268 Aust/NZ

Warranty

Circuit Level Electronics (Aust) Pty Ltd warrants this product to be free from defects in materials and workmanship for a period of **2 Years** from date of purchase. We will in the event of failure repair or replace the product at our sole discretion. This warranty does not apply in the event of accidental damage, abuse, misuse, non approved purpose or act of God. This warranty is given in addition to any rights allowed by New South Wales law.

Designed and Manufactured in Australia
By
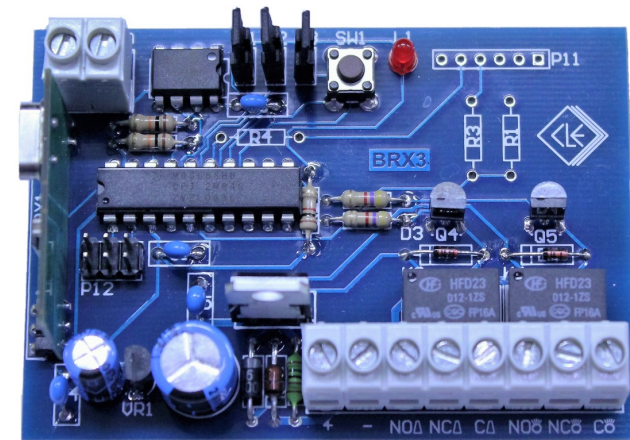Circuit Level Electronics (Aust) Pty Ltd
ABN 51 074 517 570
for
BOSCH SECURITY SYSTEMS

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

Product Overview

The HCR-BU2 receiver is designed to provide relay outputs which can be operated from any of the DSRF™ transmission type keyfobs supplied by Bosch Security Systems. These keyfobs are The RF3334, RF-HCT4UL-FOB and the Radion™ Keyfob FB.

This receiver removes the need to wire from the control panel to an external device such as a garage door or gate to operate the device. The HCR-BU2 can be powered from 12 to 24V AC or DC.

The product is supplied as a PCB only with no housing. This allows installation into gate motor housings etc.

The two relays are activated by the [icon] and [icon] buttons on the RF3334 and RF-HCT4UL-FOB keyfobs.

On the Radion™ keyfob the "Dot" and "Double Dot" buttons are used.

Receiver Layout

Antenna   Relay Options Learn RX LED

Receiver Module

Power 12/24 AC/DC   Relay Outputs
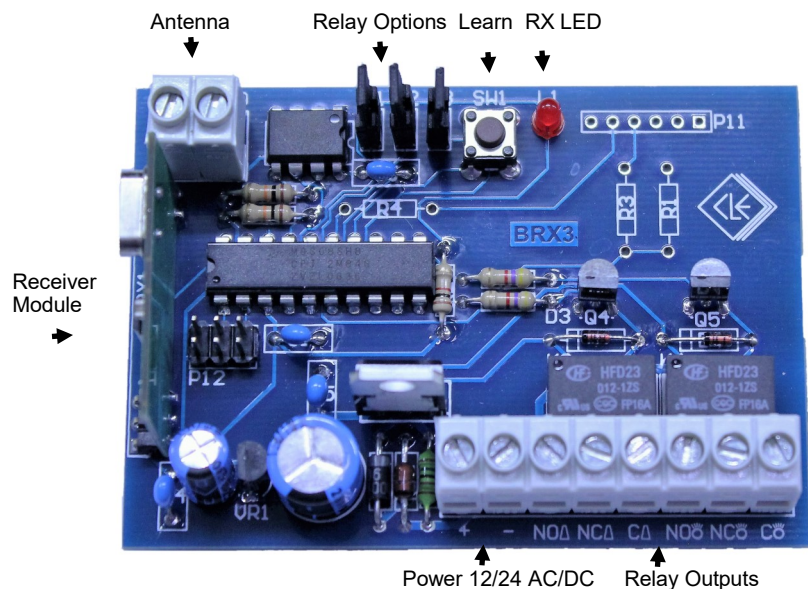
IMPORTANT NOTE:

The two buttons used for activating the relays are set by default for various functions on different Solution™ Control Panels. The programming will need to be altered if these buttons are used for a relay on the HCR-BU2 receiver.

Installation

1. Locate the receiver in a position where as much as possible it is not surrounded by or mounted on a METAL surface as this can severely effect the range of the product. If surrounding metal surfaces cannot be avoided it may be necessary to install the receiver in an enclosure remote from the device being operated.
2. Ensure that the antenna wire is as vertical as possible and unobstructed.
3. Connect a power source in the range 12 to 24V AC or DC.
4. Perform a Memory Delete before learning fobs.
5. Learn fobs. Up to 200 keyfobs may be learned to memory.
6. Set the relay options as desired.
7. Test.

Delete Keyfobs

Press and HOLD the Learn switch on the receiver PCB. The Red LED will light. Continue holding for 15 seconds after which the LED will flicker rapidly. Release the switch. The LED will flicker and then flash slowly for a few seconds before extinguishing. The memory is now empty. Individual fobs cannot be deleted.

Learn Keyfobs

Press the Learn switch on the receiver PCB. The Red LED will commence flashing Press a button on the keyfob to be learned. The LED flashing will pause while the keyfob is learned to memory and then resume flashing. Repeat for each keyfob to be learned. When done press the Learn switch to extinguish the LED or wait five seconds after which the receiver will automatically exit Learn mode.

Relay Options

The relay operation is set using the shunts P1, P2 and P3 adjacent to the Learn switch. The available options are as below.

P1	P2	P3	FUNCTION
ON	ON	ON	Both outputs momentary 1 second
OFF	ON	ON	Output 1 = Latch, Output 2 = Momentary
ON	OFF	ON	Output 1 = Momentary, Output 2 = Latch
OFF	OFF	ON	Both Outputs Latching
ON	ON	OFF	Out 1 = Momentary, Out 2 = 10 sec timed
OFF	ON	OFF	Out 1 = Momentary, Out 2 = 20 sec timed
ON	OFF	OFF	Out 1 = Momentary, Out 2 = 30 sec timed
OFF	OFF	OFF	Out 1 = Momentary, Out 2 = 60 sec timed

Output 1 is the [icon] or "Dot" button. Output 2 is the [icon] or "Double Dot" button.