Specifications

Operating Voltage	12 to 24VAC or DC
Current Consumption @ 12VDC	6mA standby 24mA relay latched
Current Consumption @ 24VAC	20mA standby 42mA relay latched
Physical Dimensions	45 (L) x 45 (W) x 25 (H) mm
Antenna	165mm x 1mm wire
Output Channels	1
Output Type	SPDT Relay
Relay Rating	1A @ 30VDC
Output Options	T4 Shunt, Latch or Momentary
Reverse Polarity Protection	Yes (diode)
RF Operating Frequency	433.92mhz
RF Signal Type (Data Transfer)	Keeloq ™ Rolling code
Coding combinations	4.2 billion
Memory Capacity	19 Keyfobs or transmitters
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

Circuit Level reserves the right to change specifications without notice in the interest of product development.
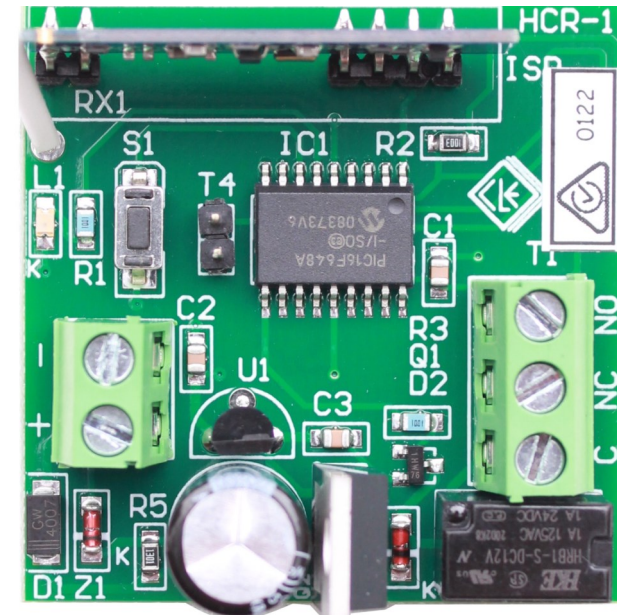
HCR-1
Single Channel Receiver

- Learns ANY keyfob channel (1 to 6)
- Each keyfob can be a different channel
- Compatible with all CLE Bosch coded keyfobs
- 12 to 24V AC/DC powered
- Small size
- Momentary or Latching output
- SPDT 1 Amp Relay
- 19 transmitter capacity
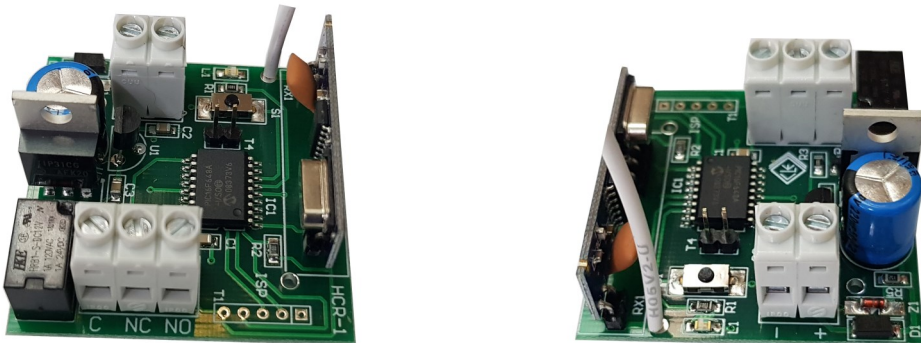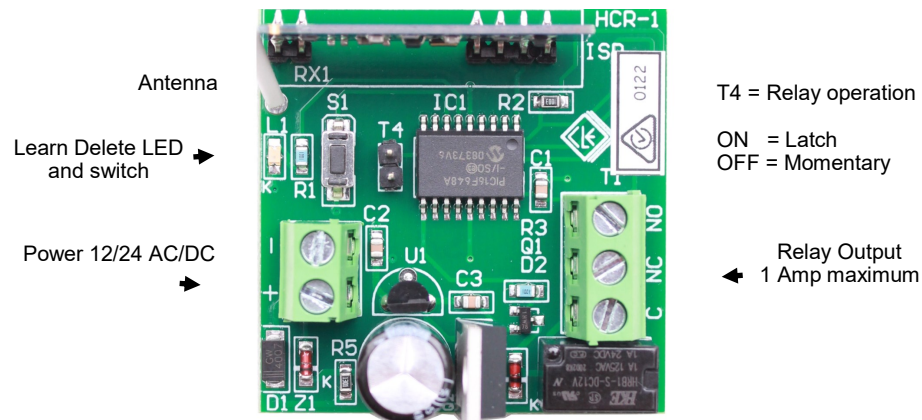- Available as PCB only or with a quality ABS housing

Product Overview

The HCR-1 is a 433.92Mhz single channel SPDT relay out superheterodyne receiver compatible with all of our transmitter products except the PTP transmitter

The unique feature of the HCR-1 is the ability to learn ANY button/channel of the SIX used in Circuit Level products to operate the relay output. The HCR-1 is only interested in the rolling code information to learn a transmitter/ keyfob, the channel part of the code is irrelevant. Because of this feature the installer can **Learn different buttons on different keyfobs to the one receiver** or learn different buttons to individual receivers. This product is very flexible.

The small size makes installation into gate motors, garge doors etc simple. The only requirement is 12 to 24V AC or DC. The HCR-1 is also available in a high quality ABS bulkhead housing.

Receiver Layout

Antenna

Learn Delete LED and switch

Power 12/24 AC/DC

T4 = Relay operation

ON = Latch
OFF = Momentary

Relay Output
1 Amp maximum

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 19 keyfobs may be learned to memory.
6. Set the relay option as desired using **T4. ON = Latch, OFF = Momentary**
7. Test.

Delete Keyfobs

Press and HOLD the Learn switch on the receiver PCB. The Red LED will light. Continue holding for 5 seconds after which the LED will extinguish. EEPROM memory is now blank. <u>Individual fobs cannot be deleted.</u>

Learn Keyfobs

Press the Learn switch on the receiver PCB. The Red LED will commence flashing Press the 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 20 seconds after which the receiver will automatically exit Learn mode.

HCR-1 receiver fitted in optional high quality ABS bulkhead housing
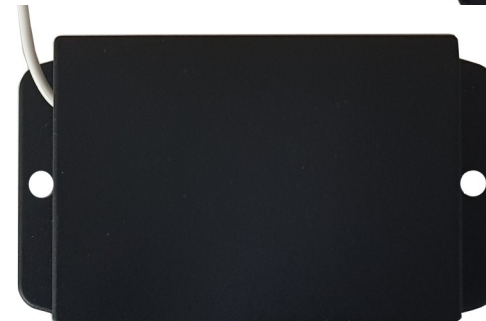
Lid of ABS housing clips onto base which removes the need to unscrew the housing from a wall.