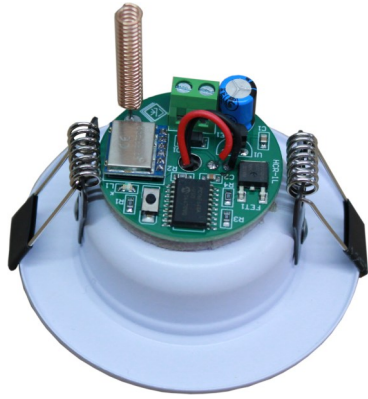


HCR-1L

RF LED Downlight

The HCR-1L is a single channel 433.92Mhz receiver controlling a 5W or 9W LED downlight. The receiver is mounted on the rear of the LED including a small spring antenna. It is designed to be used with any of our keyfobs, wall plates and other transmitter products. It is fully compatible with the Bosch™ WE800EV2 product. Suggested use is where a spare channel is available on your alarm system keyfob, the spare button (any channel 1 to 6) can be learned to the HCR-1L. This product is also ideal for use with a 12VDC solar off grid power supply. Circuit Level can assist with advice and supply of parts for this set up if requested.



SPECIFICATIONS

Receiver/LED	Operating Voltage	=	12VDC
	Current consumption	=	8mA LED OFF @ 12V
		=	450mA 5W LED ON @ 12VDC
		=	750mA 9W LED ON @ 12VDC
	EEPROM storage	=	19 Transmitter switches (ie: fob or Wall plate)

***POWER (Important)

Although the HCR-1L can be powered from an alarm systems power supply we do not recommend this. **13.8VDC output increases the downlight current draw considerably and reduces LED life** and depends on what other load (PIRs etc) is powered constantly by the alarm systems supply. As most alarm systems rate the available power @ 1Amp it is recommended that an additional power supply be used for any downlights installed. A minimum 500mA 12VDC plugpack can be used for ONE 5W downlight. A minimum 1Amp 12VDC plugpack can power ONE 9W downlight. A 5Amp 12VDC plugpack could power up to 10 x 5W or 7 x 9W.

INSTALLATION

Installation in a plaster/gyprock or other ceiling will require the below circular cutouts.

5W Downlight	=	60mm
9W Downlight	=	70mm

The area around the downlight (within 50mm all around) should be cleared of insulation etc to allow heat dissipation.

Connect power to the 2 way terminal. Learn the fob/transmitters to the HCR-1L and then test operation before folding the two spring clips upward and inserting into the cutout hole. In the case of a power outage the downlight will function again upon return of power. The transmitters will not be lost from eeprom memory.

LEARNING FOBS/TRANSMITTERS

Press the on board switch once. The LED will flash rapidly. Transmit a signal from the new fob or transmitter. The LED on the receiver will stop flashing whilst receiving a signal. Repeat for extra fobs or press the switch to exit learn mode (LED OFF). Note that should you forget to exit learn mode the receiver will do so automatically after 20 seconds of no transmissions.

DELETING FOBS/TRANSMITTERS

Hold down the on board switch (LED will light). Continue to hold down until LED turns off. All fobs are now deleted. It is not possible to delete individual fobs.

Note: The HCR-1L receiver will learn **ANY** channel on a compatible fob/transmitter. Eg: HCT-4P.

WARRANTY

The Receiver PCB for this product is guaranteed against defects for a period of **3 YEARS**. The LED downlight is warranted for **1 YEAR**. We will at our discretion repair or replace a faulty product. A full warranty statement is available upon request.