



Universal switching receiver RCM 255

The RCM255 is a RF receiver designed to switch various 120V electronic loads such as incandescent lamps, high-voltage halogen lamps, electronic ballast and inductive loads upon receipt of authenticated radio packets sent by EnOcean transmitters.



The RCM 255 receiver can learn a maximum of 30 EnOcean easyfit PTM radio switches or up to 2 EnOcean easyfit STM 250 radio window contacts. By assigning the first transmitter the operating mode is defined. The operating mode can only be changed after deleting all transmitters with the CLR button

Mode RADIO SWITCH: Each assigned PTM transmitter can be used to change the switching state of the receiver output. It is possible to switch ON with one switch and OFF with another switch.

Mode RADIO WINDOW CONTACT: If at least one of the assigned window contacts is open the switching state of the receiver is ON. If both contacts are closed the state is OFF. The radio window contacts are transmitting a life signal typically every 15 minutes. Around 60 minutes after reception of the last life signal the receiver considers this contact to be closed.

Features Overview

Power supply:	.....	120V AC $\pm 10\%$, 60 Hz
Power dissipation:	.....	1300mW max.
Relay Output:	.....	maximum load 1100VA resistive ($\cos\phi=1$) 200W tungsten (incandescent lamp), 140W ballast with $\cos\phi=0.4-0.6$ (fluorescent lamp)
Frequency/ Channel bandwidth / Sensitivity:	.....	868.3 MHz / 280 kHz / -95 dBm
Antenna:	.....	internal
Control inputs:	.....	2 pushbuttons LRN (set receiver into learning mode) and CLR (clear all)
Learn Mode indication:	.....	acoustic feedback (switching noise of relay)
Number of RF transmitters learnable:	.....	up to 30 switches or up to 2 magnet contacts Note: either PTMs or either STM250s can be learned, not mixed (for priority reasons)
Dimensions of housing:	.....	49 x 37 x 33 mm
Operating temperature:	.....	-10 up to +45 °C
Humidity:	.....	0% to 95% r.h., no condensing

Easy learning of radio transmitters: 1.) Set the receiver into Learning Mode via pressing LRN pushbutton. The receiver will confirm Learning Mode via a cyclic output switching behaviour (1 sec. switch-over time) 2.) Operate the associated radio transmitter, the receiver will confirm the correct learning of sender code (switch-over paused for 4 seconds). 3.) Repeat 2. for learning further radio transmitters or press LRN again for ending the Learning Mode.

This product is approved by FCC and IC and conforms to cCSAus safety requirements.

Type	Type	Ordering Code
RCM 255	120V AC	H5002-B255