

Load Controller Module for receptacles and wall boxes

ERM-DL



energy conservation - home and office

Overview

One of the benefits of wireless controls is the distributed nature with which they can be deployed in any type of facility. Distributed wireless devices can control individual fixtures or appliances without disrupting other electrical devices. Product and installation cost has always been a barrier to deployment of any technology at this scale and density until now. Echoflex's ERM is an embedded wireless device that will automate the activation of miscellaneous electrical loads using remote energy harvesting switches and sensors. As a wireless solution, the switch leg cost of wire and installation time is eliminated making the ERM ideal for retrofit applications.

The ERM installs in electrical junction boxes, behind receptacles, wall switches in ceiling fixtures, or any other location with an electrical load. Assigning Echoflex battery-free wireless switches to the ERM is easy and you can use the switch as a configuration tool. Smart Click or Simple Tap software allows you to change time outs periods, add new switches, activate the repeater function plus many other features. Using remote management software allows commissioning to be completed via a laptop simplifying large deployments.

The ERM is a versatile control device that can be used in a large number of applications including; timed switch, daylight harvesting lighting, occupancy based lighting, and miscellaneous electrical load control.

Call 888-324-6359 or email (sales@echoflexsolutions.com) for more information on the ERM controller.



Features

- ⇒ Gain control over plug-in electrical appliances
- ⇒ Use for controlling in-wall or ceiling light fixtures or any miscellaneous electrical load
- ⇒ Supports commissioning via Smart Click, Simple Tap or Remote Management
- ⇒ Assign up to 20 battery-free Echoflex wireless wall switches or sensors to one controller
- ⇒ Reliable radio reception range of 80 ft. in most common indoor applications
- ⇒ Low-cost alternative to running wires and conduit - ideal for retrofit projects
- ⇒ Versatile voltage range makes specification easy, there's only one controller to order
- ⇒ Available with either 315 MHz and 868 MHz EnOcean Dolphin radios
- ⇒ Near-Cross switching technology for long relay life

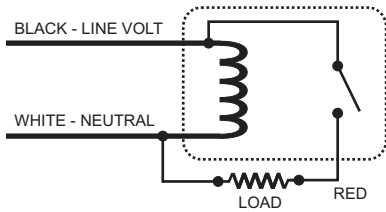
Ordering Information

Model Number	Description	Part Number
ERM-DLC	90-240V Load Controller, 315MHz	001-0505
ERM-DL	90-240V Load Controller, 868MHz	001-5505
ERM-DLC-277	120-277V Load Controller, 315MHz	001-0492
ERM-DL-277	120-277V Load Controller, 868MHz	001-5492

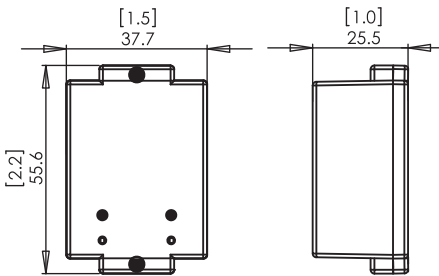


ERM-DL

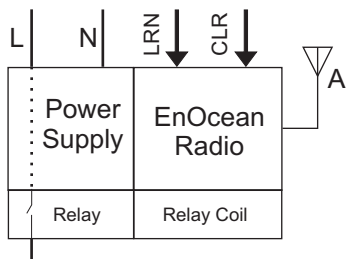
Wiring Diagram



Dimensional Drawing



Block Diagram



EnOcean Equipment Profiles (received)

EEP: F6-02-02	Light (with dimming) and Blinds Control - US/Canada application
EEP: F6-04-01	Key Card Activated Switch
EEP: A5-06-02	Light Sensor [range 0 - 1024 lux]
EEP: A5-07-01	Occupancy Sensor
EEP: A5-30-02	Single Input Contact (doors and windows)
EEP: A5-11-01	Lighting Controller (transmitted)
EEP: D5-00-01	1BS Contact and Switches

Hardware Specifications

Power Supply	ERM-DLC: 90 - 240 VAC, 50/60Hz	ERM-DLC-277: 120 - 277 VAC, 50/60Hz
Power Consumption max	2.5 W full load	
Outputs	N.O. Relay rating 15A @ 90 - 277 VAC 2 x LEDs, Learn(green) and Power(red)	
Maximum Load Ratings	<u>ERM-DL(C)</u>	<u>ERM-DL(C)-277</u>
Incandescent/Tungsten	1300 W @ 90 VAC 3600 W @ 240 VAC	1800W @ 120 VAC 4000W @ 277 VAC
General Purpose	15A @ 90 - 240 VAC	15A @ 120 - 277 VAC
Fluorescent Ballast	15A @ 90 - 240 VAC	15A @ 120 - 277 VAC
Inputs	LEARN and CLEAR buttons for sensor assignment	
Communications	315 MHz or 868 MHz EnOcean radio with whip antenna	

Mechanical Specifications

Operating Temperature for models ERM-DLC & ERM-DL at 240V:	14°F to 104°F (-10°C to 40°C ambient)
Operating Temperature for models ERM-DLC-277 & ERM-DL-277 at 277V :	14°F to 113°F (-10°C to 45°C ambient)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	2.2 ounces (60 grams.)
Dimensions	2.2" x 1.5" x 1.0" (56 mm. x 38 mm. x 26 mm.)

Agency Listing and Compliance

Safety	ETL Recognized Component 4001597 Conforms to UL Standard 508 Conforms to CAN/CSA Std. C22.2 No.14
Radio Frequency	FCC Part 15.231 - Remote Control Transmitter Industry Canada RSS-210



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