

EcoSystem™ Module Control of Multiple Fixtures

Overview

EcoSystem modules (C5-BMF-2A) are able to control one Lutron dimming ballast or up to maximum of 2A of Lutron dimming ballasts. When controlling more than one fixture it is advisable to mount the EcoSystem module in either a lighting fixture or within a remote mounted NEC listed electrical enclosure.

When using an EcoSystem module with an emergency (essential) lighting circuit two approaches can be used: (1) power the module via an emergency feed or (2) power a lamp in a fixture using a battery pack. Both approaches are compatible with EcoSystem.

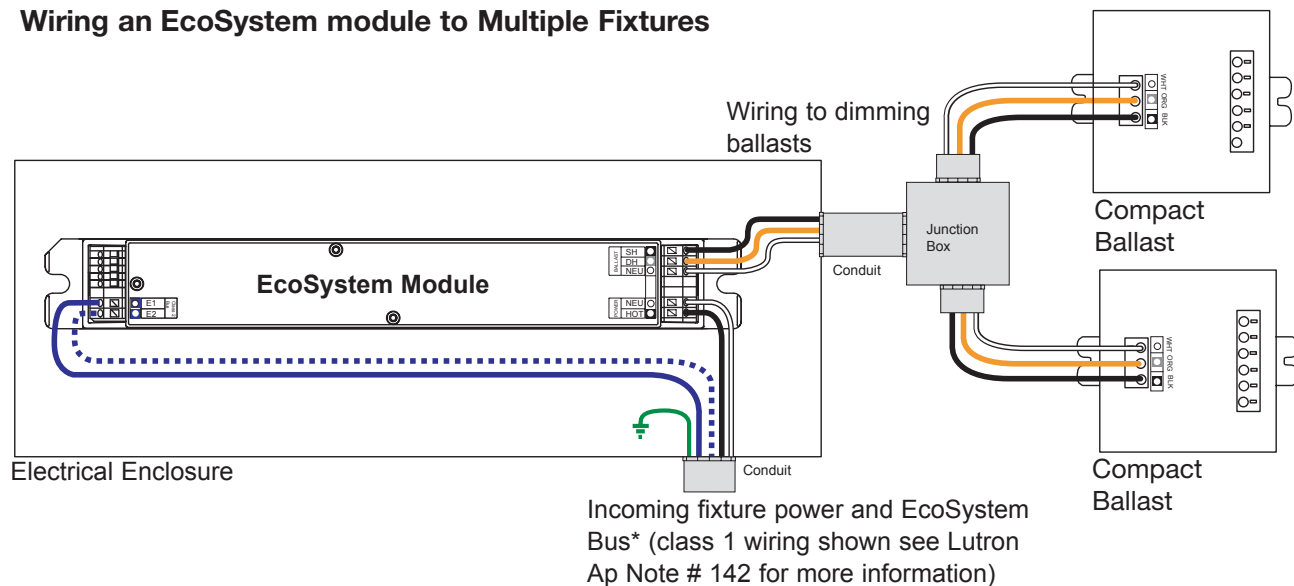
Wiring Details: Module Wires to Multiple Fixtures

When an EcoSystem module controls multiple Lutron dimming ballasts, wire the 3-wire output of the module to each fixture it controls. For proper operation: wire dimmed hot, switched hot, and neutral from the module to every fixture controlled by the module.

Per electrical code the EcoSystem module must be mounted in a NEC approved electrical enclosure. Minimum dimensions of the enclosure are 9" long, 3" wide and 2" deep for one module. Larger enclosures can be used for wiring convenience or for mounting multiple modules in one enclosure.

The diagram below shows the wiring scheme.

Wiring an EcoSystem module to Multiple Fixtures

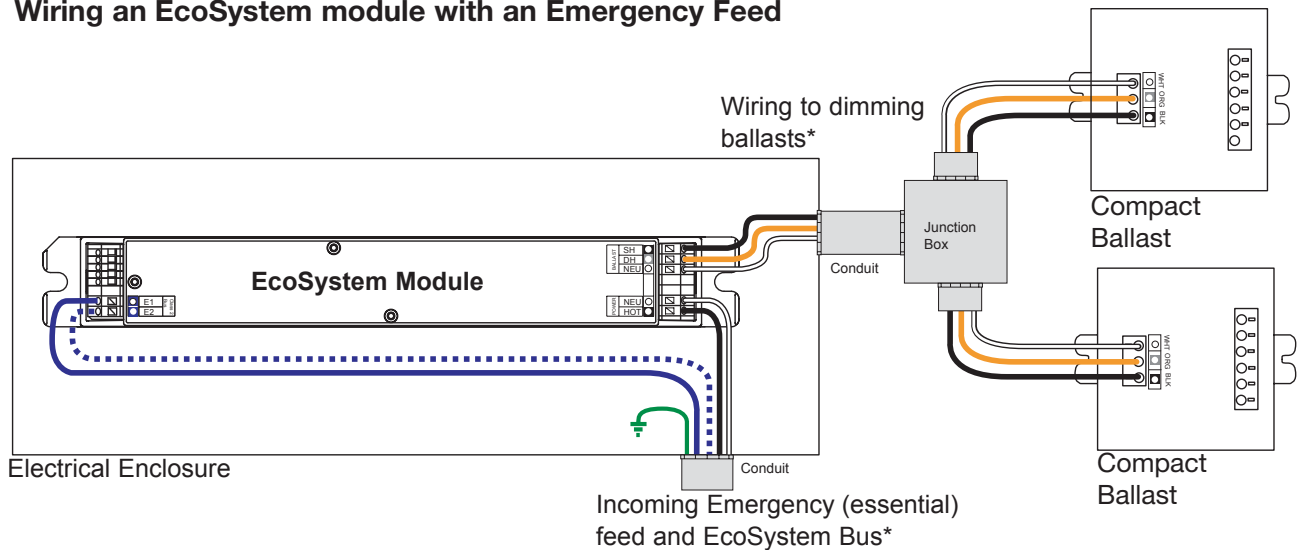


* Module terminals are compatible with #18 and #16 AWG solid wires only, sensor input terminals are compatible with #22 AWG solid only

Emergency and EcoSystem Modules

When an EcoSystem module is used to control an emergency fixture, it wires the same as shown above. The only change is that the module is powered via a dedicated emergency feed from a transfer switch and generator. Under this wiring scheme all fixtures wired to the module will be powered at the emergency light level (full on by default). See Lutron Application Note #140 for more information on how EcoSystem operates with emergency wiring

Wiring an EcoSystem module with an Emergency Feed



* Module terminals are compatible with #18 and #16 AWG solid wires only, sensor terminals are compatible with #22 AWG solid only.

For applications where an emergency ballast or battery back of ballast is used to power a lamp in a fixture during a power failure, see Lutron Application Note #50 for more information on wiring dimming ballasts and emergency ballasts.

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