



FUNCTION

The Fixture Relay Module, model UFR, turns 120VAC appliances or lighting ON and OFF based on digital commands received over the power wiring from a remote UPB (Universal Powerline Bus) controller. UPB controllers and modules can be freely located anywhere in the home. No additional wiring is required and no radio frequency signals are used for communication.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Installation should be performed by a qualified electrician.
3. Keep away from water. If product comes into contact with water or other liquid, unplug immediately.
4. Never use products that have been dropped or damaged.
5. Do not use this product outdoors.
6. Do not use this product for other than its intended use.
7. Do not connect multiple lamps or appliances that, when combined, exceed the maximum load ratings of the product.
8. To avoid risk of fire, burns, personal injury and electric shock, install this product out of reach of small children.
9. Do not cover the product with any flammable material when in use.
10. SAVE THESE INSTRUCTIONS.

INSTALLATION

The Fixture Relay Module is designed for indoor use with devices that are permanently wired into the home electrical system. To install the UFR module:

1. Locate the device to be controlled. Note that the device power rating must not exceed 12 amps.
2. Disconnect power at the circuit breaker.
3. Remove any existing ceiling or wall fixture hardware for the device. Disconnect the black wire that supplies power to the device.
4. Using a wire nut, connect the black (Line) wire of the fixture module to the black (Line) power wire.

5. Using a wire nut, connect the brown (load output) wire of the fixture module to the black wire from the device to be controlled.
6. If the application requires a remote wall switch to activate/deactivate the fixture module, connect the brown/white wire from the fixture module to the traveler wire that extends to a model USR Dedicated Remote Switch. Refer to the wiring diagram for details.
7. If a remote wall switch is not used, cap off the unused brown/white wire at the fixture module to prevent shorting.
8. Using a large wire nut, connect the white (Neutral) wire of the fixture module to the white (Neutral) power wire and the white wire from the lighting fixture. If a remote USR wall switch is used, this connection can also be used to supply a neutral to the USR switch. Refer to the wiring diagram for details.
9. Refer to instructions on CONFIGURATION and OPERATION prior to placing the fixture module in its final location, as it may be necessary to have access to the Program Switch in order to add the module to the UPB network and test its operation. Temporarily restore power in order to perform these functions. Disconnect power again when finished. Or, if a USR Remote Switch is part of the installation, simply tap the USR 5 times to put the UFD into Program Mode.
10. Once proper operation is established, fit the module into the outlet box or otherwise secure it using screws or wire ties. Reinstall fixture hardware as needed.

CONFIGURATION

1. To configure the UFR and assign it to one or more controllers, **please refer to instructions for the controller.**
2. When configuring a UPB system, it may be necessary to place the UFR in SETUP mode. To do this, press the Program Switch five (or the USR rocker) times rapidly using a non-metallic toothpick. The indicator will continuously blink GREEN when the unit is in SETUP mode. To exit SETUP mode, press the Program Switch once or wait five minutes.



CAUTION: Do not insert metal objects into the module while it is connected to power.

OPERATION

The Fixture Relay Module operates according to commands sent by a controller. The indicator on the module will glow RED when the controlled device is OFF and GREEN when the device is ON.

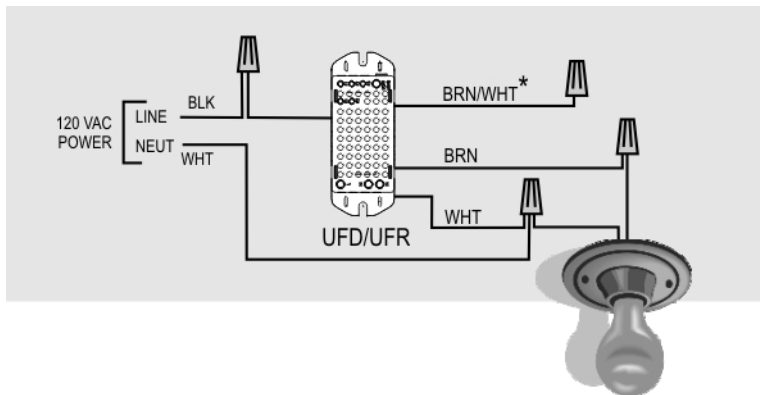
UPB FACTORY DEFAULT SETTINGS

To restore the following default settings, place the UFR in SETUP mode and then press the Program Switch ten times. Press the switch twice again to exit this mode.

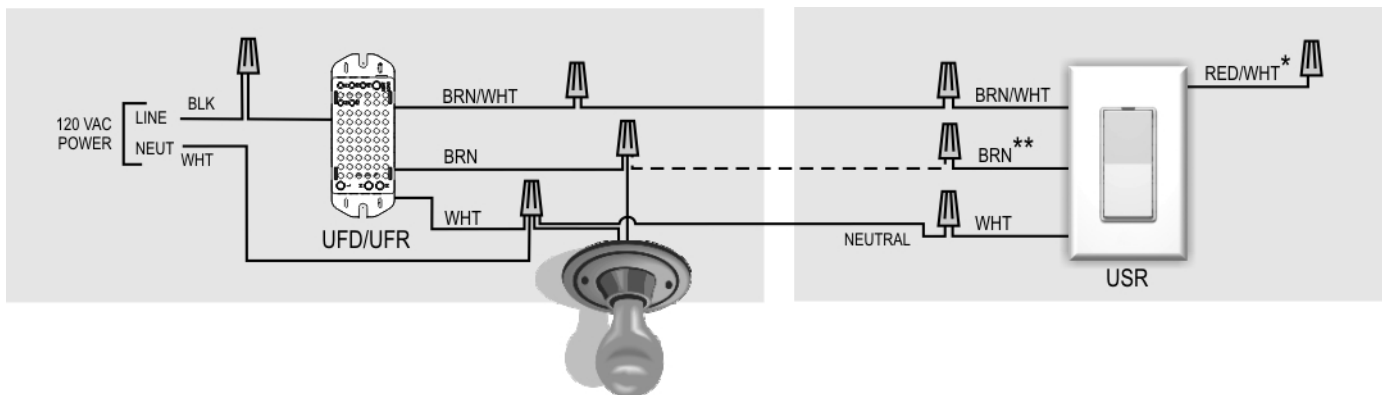
Network Name	“Network 1”
Room Name	“New Room Name”
Device Name	“New UFR”
Unit ID	7
Network ID	255
Network Password	1234

INSTALLATION FOR CONTROL WITH US1/2

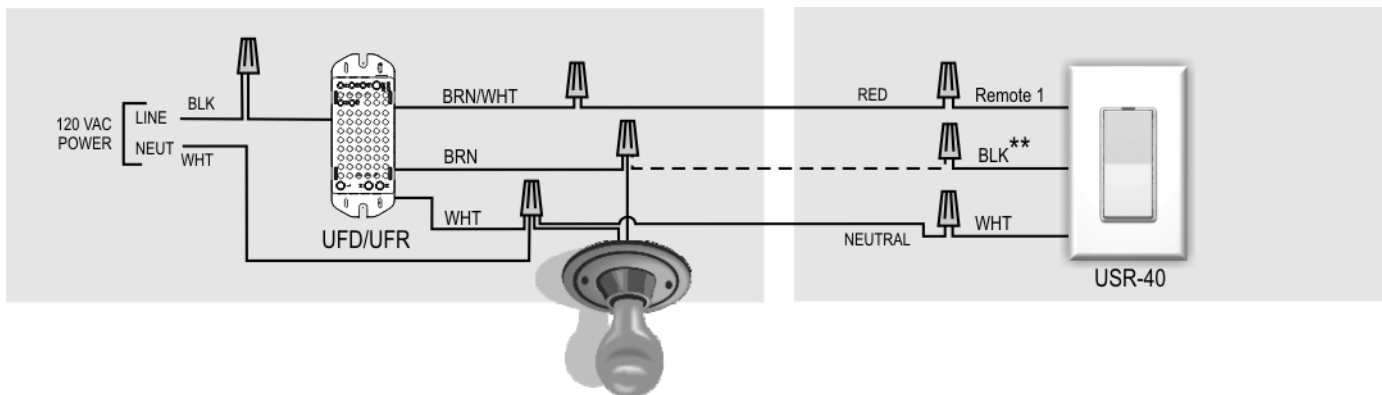
The UFD/UFR is wired to line and neutral, and controlled via link(s) transmitted from a US1, US2 or control system (hardwired or software).



INSTALLATION WITH OPTIONAL USR DEDICATED REMOTE SWITCH



INSTALLATION WITH OPTIONAL USR DEDICATED REMOTE SWITCH



NOTES:

* CAP UNUSED BRN/WHT AND/OR RED/WHT WIRES TO PREVENT SHOCK OR SHORTING.

** CONNECT THE BROWN WIRE (BLACK ON SOME MODELS) OF THE USR AS SHOWN TO ENABLE OPERATION OF THE LED INDICATOR. THIS WIRE IS NOT REQUIRED FOR SWITCH OPERATION AND CAN BE OMITTED IF A THIRD WIRE IS NOT AVAILABLE. CAP BROWN WIRE IF NOT USED.