

# App Note 203

#### **Problem**

A home has an existing set of outdoor lights controlled by a switch. The homeowner wants to divide them into several zones each independently controllable. They also want to add some way for them to go on at dusk and off at different times for weekdays and weekends.



#### The Usual Solution

The usual solution involves installing a separate switch for each zone in the house – cutting holes for new boxes - and running wires from the switch to the loads for that zone. For time control it will be necessary to have some sort of timer (mechanical or electronic) for each zone that attempts to power the zone on and off at the correct times each day – probably not possible to handle the different times on the weekends - but unless this is a smart electronic timer that has the ability to know the location and date, this will not be a satisfactory solution.

### The SimpleWorx solution

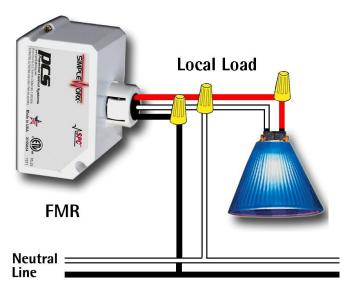
The SimpleWorx solution replaces the existing wall switch with a KPT4 keypad. This is physically capable of being installed in the same single-gang box as the existing switch so the replacement is easy. The power circuit that was controlled by the switch is rewired at the box to have the loads always powered on.







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A FMR fixture module is installed in each device to be controlled. Alternatively, local wiring between the fixtures can be adjusted so that all the fixtures on one zone can be controlled by a single FMR. The choice will be made based upon the work to do that rewiring vs the cost of the fixture modules.

Once the FMRs are installed on the load circuits, each buttons on the keypad in the house is linked to the FMRs it controls. This gives the homeowner the control they have asked for.

The final step is to install and program a Daily Astronomical Timer (DAT4). As this is a plug-in unit it can be installed anywhere. It is configured with the location and Daylight Saving rules so will correctly know sunset each day.

##end##



