

- Motion Activated Light After Sunset -

Objective

Provide lighting when motion is detected after sunset.

Equipment List

- ◆ Apex Destiny 6100 control panel, rev. 8.05 or greater
- ◆ Hardwire Motion Detector
- ◆ X-10 PRO Power Line Interface Module, PSC05
- ◆ X-10 PRO Incandescent Wall Switch Module, PLW01
- ◆ X-10 PRO Sundowner Mini Controller, PHC03

Sequence of Operation

When motion is detected after sunset, the system will turn on a light and turn it off after a programmed countdown time. If motion is detected again within the countdown time then the light will remain on and the countdown will restart.

System Sequence of Events

- 1) When motion is detected Zone 1 will be activated and the system will speak "Motion Detected".
- 2) At sunset the X-10 Sundowner Mini Controller will send the X-10 output signal "A4 ON" which will enable Control Channel 33. At sunrise the X-10 output signal "A4 OFF" will be sent disabling Control Channel 33.
- 3) The X-10 light (Control Channel 33) is linked to Zone 1 and if it is sunset will turn on whenever Zone 1 is activated and remain on until the programmed countdown time has expired. If Zone 1 is activated again within the countdown time the light will remain on and the countdown will restart.
- 4) At sunrise Control Channel 34 will send the X-10 output signal "A1 OFF". This will ensure that the X-10 light turns off because if the light is turned on and the countdown time has not expired at sunrise then the light would remain on. Control Channel 33 is disabled at sunrise and will not send the "A1 OFF" signal to turn off the light after the countdown time has expired.

Required Programming

| Location | Value | Function |
|----------|-------|--|
| 4865 | 013 | Enable control channel 33 with automatic turn-off and countdown restart |
| 4868 | 008 | Disable channel when light(sunrise) |
| 4869 | 005 | On units (minutes) |
| 4886 | 096 | X-10 output signal = "A1" |
| 4889 | 001 | Enable control channel 34 |
| 4891 | 016 | Turn channel 34 off when light(sunrise) |
| 4910 | 096 | X-10 output signal = "A1" |
| 0901 | 001 | Zone – control channel link option (open = on) |
| 0902 | 033 | Zone – control channel link channel (zone 1, channel 33) |
| 5570 | 099 | X10 sunset / sunrise output signal = "A4" |
| 5572 | 022 | X-10 "A4 ON" signal = sunset |
| 5573 | 021 | X-10 "A4 OFF" signal = sunrise |
| 9940 | 01 | Zone type = 000, Option 1 = 080, Option 2 = 033, Hardware device = 000, Input = 01 |
| 9940 | 02 | Zone type = 015, Option 1 = 000, Option 2 = 001, Hardware device = 020, Input = 1 |
| 9920 | 001 | 109(Motion), 056(Detected) |

Application Diagram

