

For Your Information ...

Using a Photocell with the RadioRA® System

Overview

The *RadioRA* system has the ability to accept Class 2 dry contact closures to automatically control lights in a home. There are times when photocell functions are desired so that lighting events change with background light levels. This can be accomplished by using an external photocell as shown below.

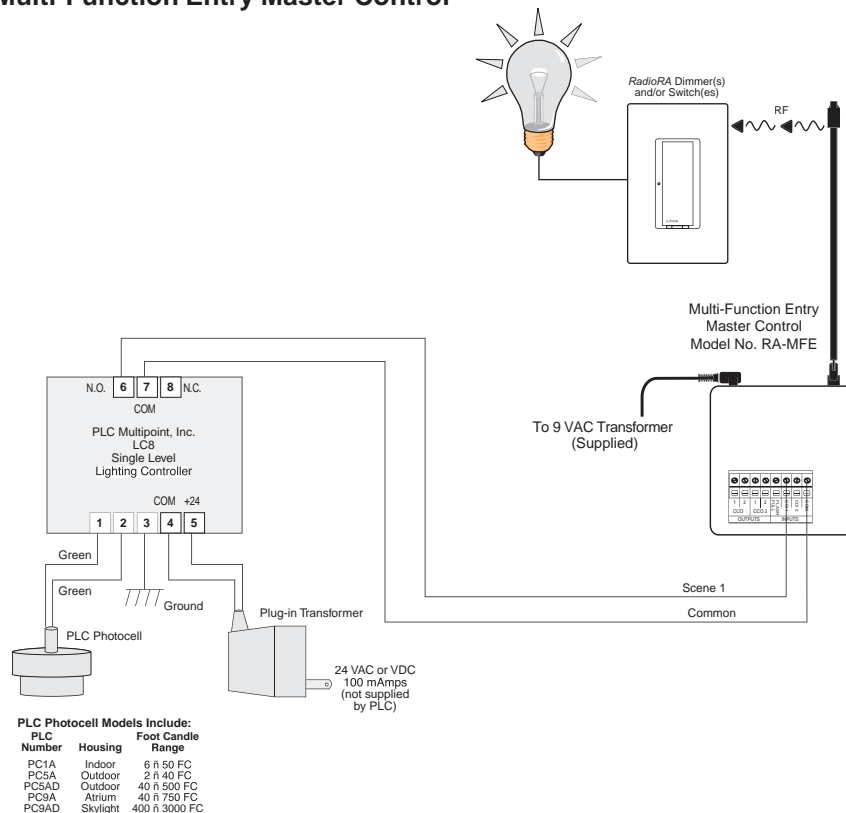
Wiring

The wiring diagram below uses a *RadioRA* Multi-Function Entry Master Control or a Switch Closure Interface, and a photocell Manufactured by PLC Multipoint, Inc.

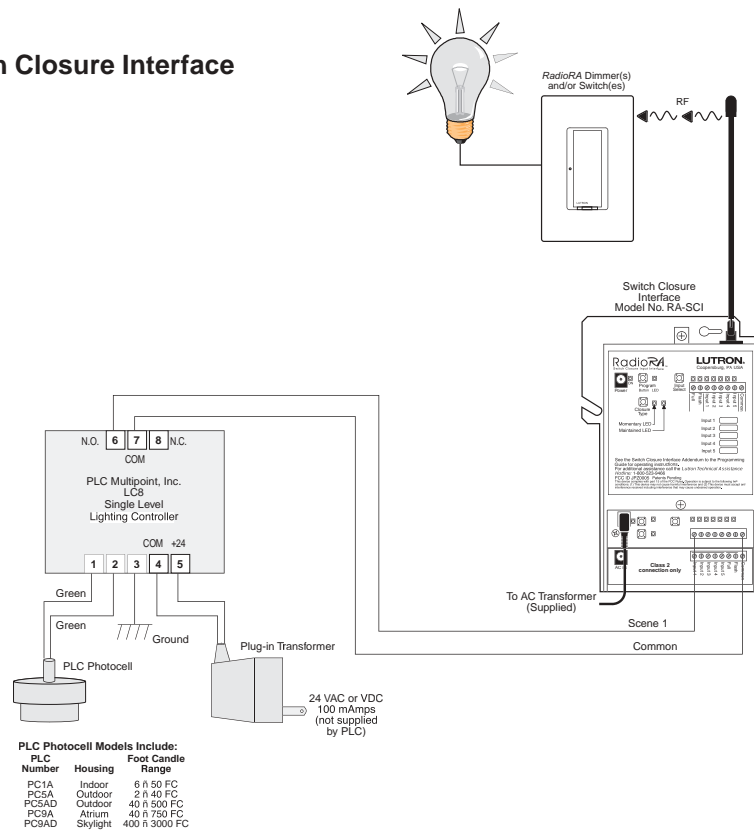
Using the *RadioRA* Setup Guide or RAMC-MFE Setup and Installation Guide, an input on the RA-SCI or RAMC-MFE can be programmed to the MAINTAINED function such that a maintained switch closure will turn a SCENE ON. The input SCENE turns on when the switch closure is made. When released, the input SCENE returns to OFF.

For information on purchasing this photocell, contact PLC Multipoint at:
3101 111th Street SW, Suite F
Everett, WA 98204
(425) 353-7552

Photocell Wiring for Multi-Function Entry Master Control



Photocell Wiring for Switch Closure Interface



Operation

SCENE 1: Turn some exterior landscape lighting ON at dusk and OFF at dawn.

- Using the *RadioRA* Setup Guide or the RAMC-MFE Setup and Installation Guide, configure CCI 1 on the *RadioRA* Multi-Function Entry Master Control (RAMC-MFE) or input 1 on the Switch Closure Interface (RA-SCI) to the MAINTAINED function for control of the *RadioRA* Dimmers, Switches or GRAFIK Eye® Control Units that control exterior landscape lighting.
- Configure the output circuit of the photocell to provide a maintained ON closure when the photocell senses its LOW setpoint and a maintained OFF closure when the photocell senses its HIGH setpoint. (Setpoints can be calibrated to the actual desired light level. See instructions provided with photocell.)
- Wire CCI 1 and common or input 1 and common as shown in the wiring diagram on page one.

OPERATION: As dusk arrives and the photocell senses that the background light level is reaching the LOW setpoint, the photocell will provide a maintained ON closure to CCI 1 on the RAMC-MFE or input 1 on the RA-SCI. The RAMC-MFE or RA-SCI will turn scene 1 ON to its preprogrammed light levels (in this case the andscape lighting). As dawn approaches and the background light level reaches the HIGH setpoint, the photocell will turn its closure OFF, which will open the MAINTAINED closure on the RAMC-MFE CCI 1 or RA-SCI input 1, which will turn scene 1 (the landscape lighting) OFF.

Other inputs may be dedicated to other functions such as timeclock, telephone interface, motion sensor, pressure pad, etc.

Worldwide Technical and Sales Assistance

If you need assistance call the toll-free **Lutron Technical Support Center**. Please provide exact model number when calling.

(800) 523-9466 (U.S.A., Canada, and the Caribbean)
Other countries call (610) 282-3800
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