

LUTRON®

For Your Information ...

Interfacing RadioRA® to Security and Fire Alarm Systems



Overview

RadioRA is frequently interfaced with other common systems within a home, such as security and fire alarm systems. Audible alarms are commonly utilized with these systems. The addition of lighting will add an enhanced level of security and peace of mind for the homeowner and their family. With the *RadioRA* Multi-Function Entry Master Control (RAMC-MFE), or the Switch Closure Interface (RA-SCI), it is possible to turn on selected lights to a preset level, and/or have other lights locked on full, and/or have different lights flash during an alarm condition.

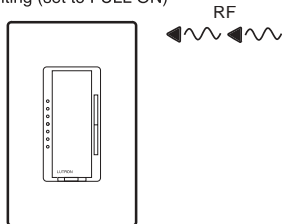
When interfacing with security systems, a dry maintained contact closure output must be provided by the security system installer. The output must be programmed to latch during an alarm condition. Most security systems have auxiliary relay outputs for this purpose. A common application is to make exterior lights flash, thereby alerting neighbors and making it easier for rescue personnel to locate the home. Interior lights are typically locked to FULL ON, scaring off intruders.

Interfacing with fire alarm systems requires the same type of dry maintained contact closure from the system installer. With the *RadioRA* system it is possible to light an emergency exit pathway from all bedrooms at a low light level, and flash exterior lights making it easier for rescue personnel to locate the home. Just as your car's high beams do not work well in dense fog, bright lights do not work in a smoke filled house. This feature is a must for homeowners with children living at home.

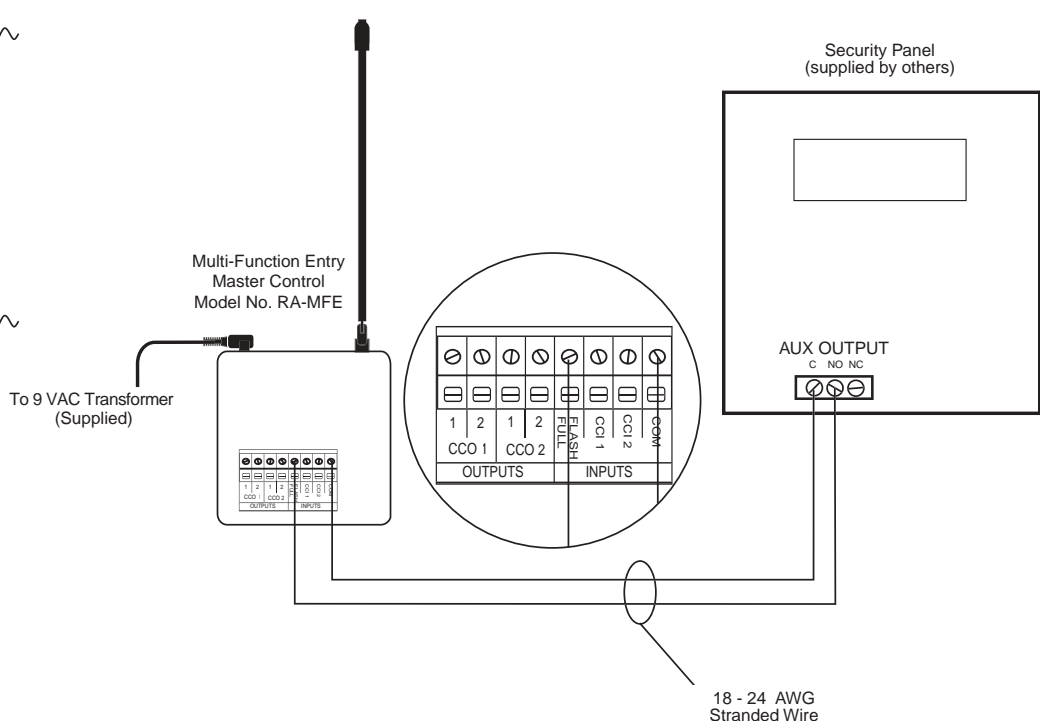
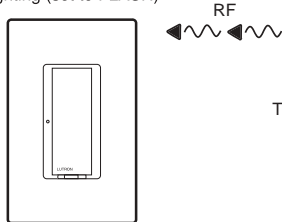
Wiring

Security Alarm Wiring for Multi-Function Entry Master Control

RadioRA devices for interior lighting (set to FULL ON)

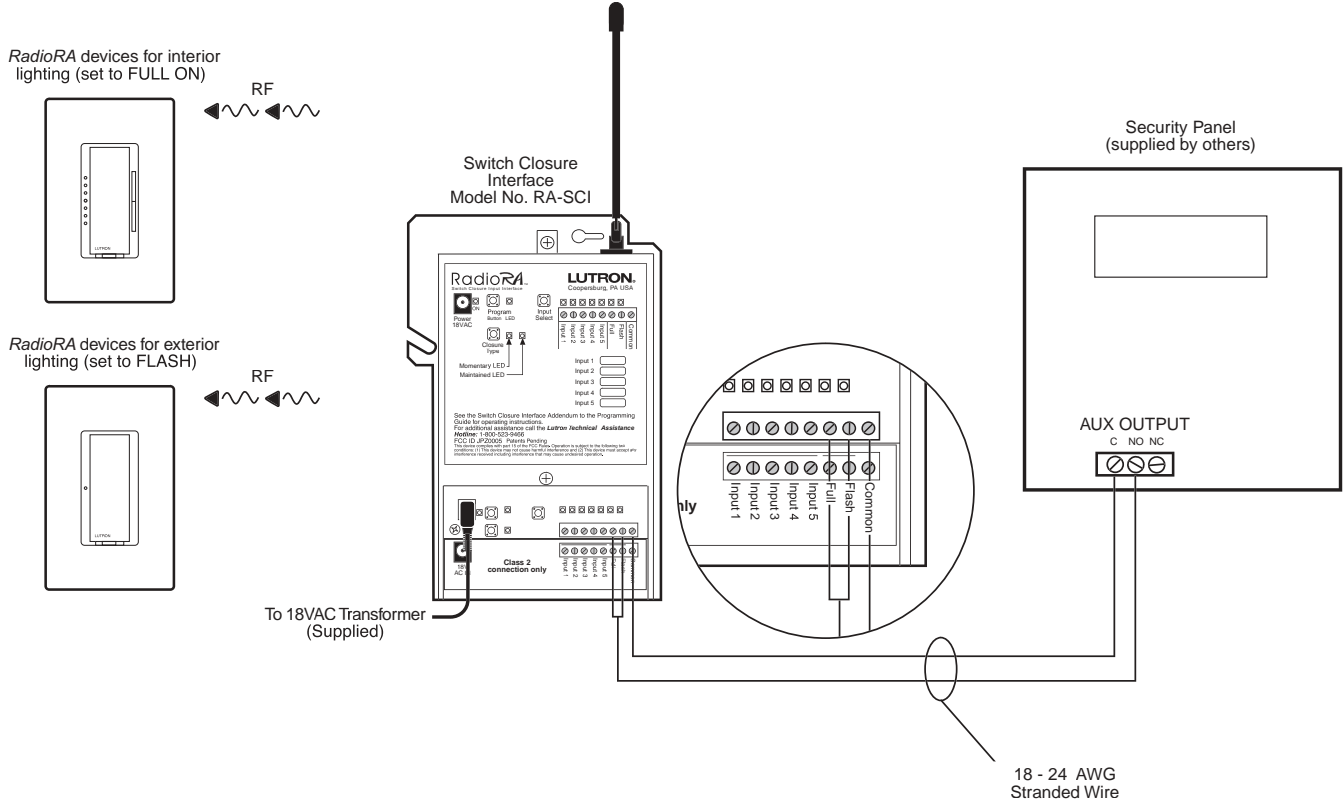


RadioRA devices for exterior lighting (set to FLASH)

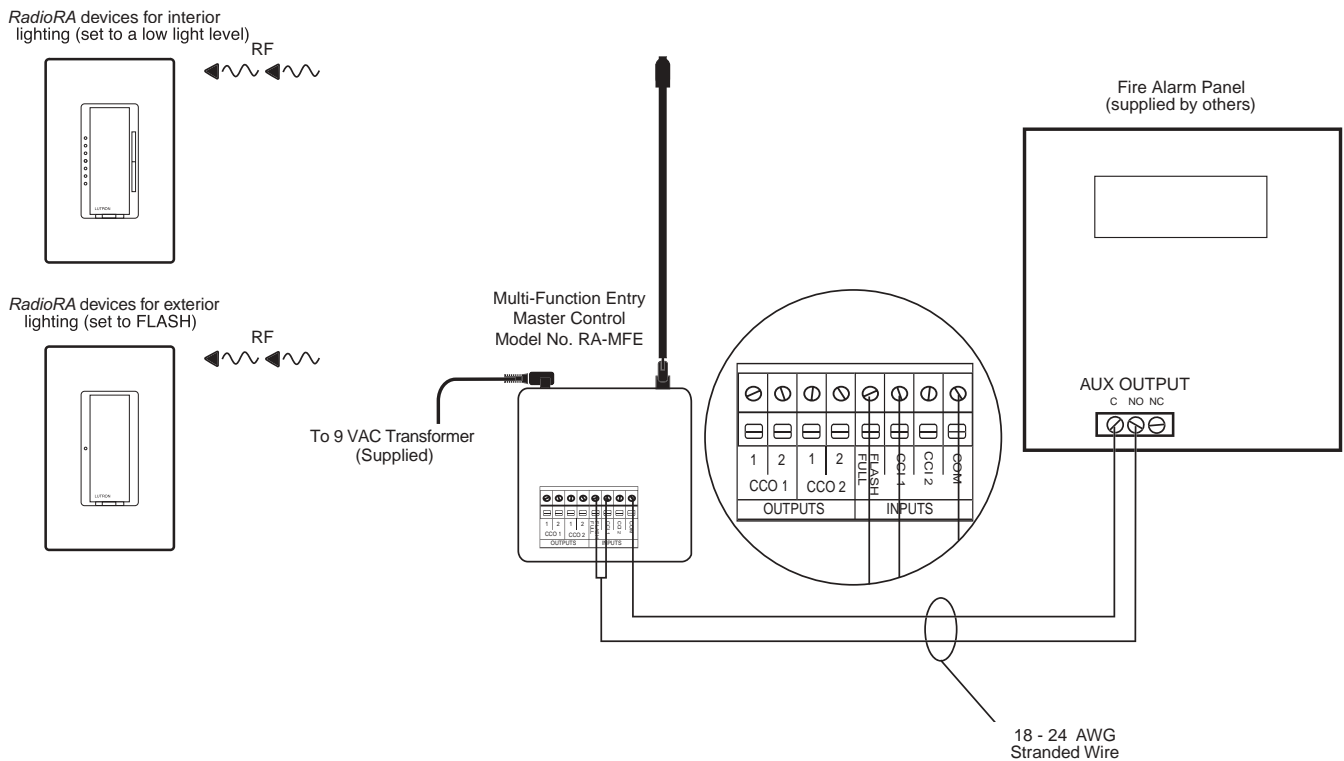


Need additional assistance? Call the Lutron Technical Support Center 1-800-523-9466
Please provide exact model number when calling.

Security Alarm Wiring for Switch Closure Interface

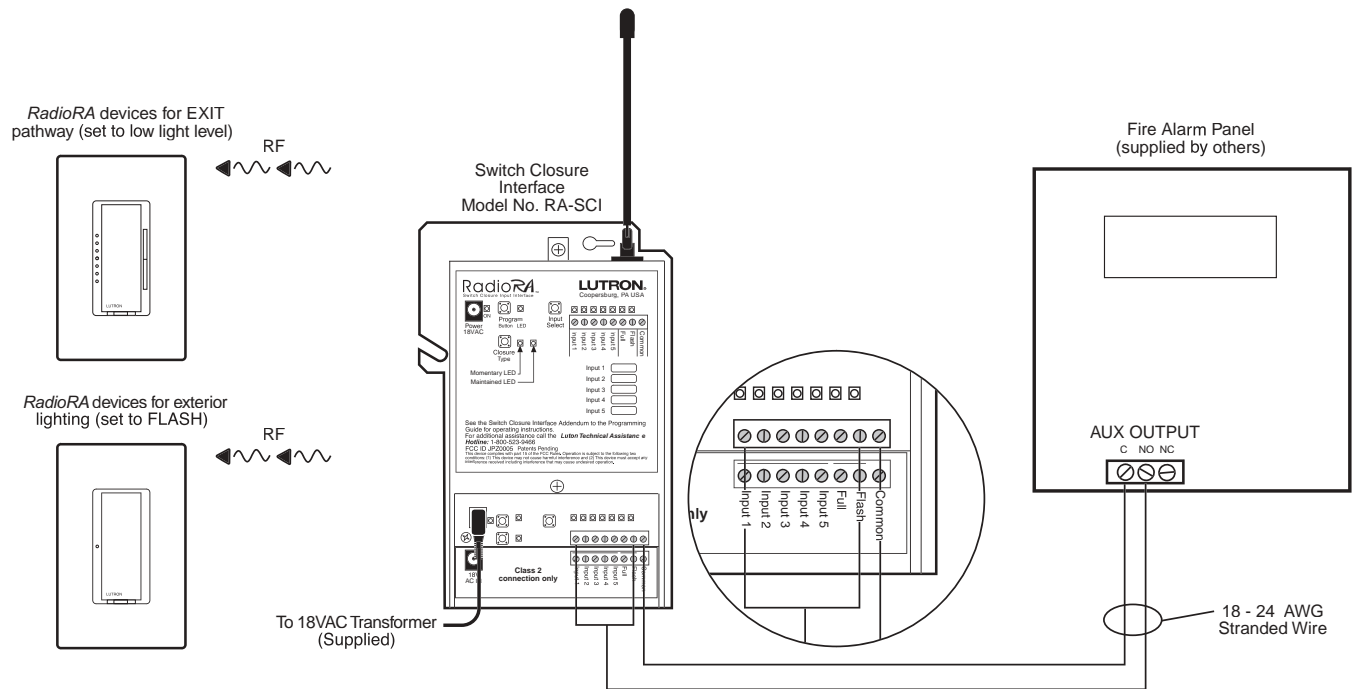


Fire Alarm Wiring for Multi-Function Entry Master Control



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Fire Alarm Wiring for Switch Closure Interface



Programming

RadioRA Multi-Function Entry Master Control (RAMC-MFE) or Switch Closure Interface (RA-SCI) should be set up as follows to achieve the above mentioned operation:

SECURITY

“FULL”- Select interior lights to be assigned. Typically at least one *RadioRA* device from each room is assigned. This is usually enough light to alert the homeowner and scare any unwanted intruders.

“FLASH” - Assign all exterior lights controlled by the *RadioRA* system. If none are controlled, use interior lights that are highly visible from outside the residence.

FIRE ALARM

“INPUT or CCI 1” - (Maintained Closure) Assign exit pathway and bedroom lights for a predetermined safety exit. Use level set mode to adjust lighting intensity to 50% or lower, depending on pathway.

“FLASH” - Assign exterior lights controlled by the *RadioRA* system. If none are controlled, use interior lights that are highly visible from outside the residence

Operation

Once the safety systems have been programmed to alert the *RadioRA* system, and the *RadioRA* system has been set-up and programmed, operation is completely automatic.

NOTES:

- Any contact closure connected to “FULL/FLASH” input of the RAMC-MFE or the “FLASH” or “FULL” inputs of the RA-SCI will lock out all control of the assigned *RadioRA* devices. No local changes can be made at dimmers or master controls until the Alarm Condition is reset at the security/fire panel.
- Fire and security outputs can be tied together to access the same “FLASH” scene on the RAMC-MFE or the RASCI, provided the outputs are isolated relay contact closures.
- All maintained contact closures from other equipment to the RAMC-MFE or the RA-SCI must be MECHANICAL and should not supply voltage or current.

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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