

Power Requirements for the R4000 Series



Power Requirements for the R4000 Series:
Does Not Have Self-Contained Battery System

There are two ways to power the R4000 Series Emergency Fixture.

Method #1 (One Circuit)

Provide one emergency power circuit that is energized only during the operation of the generator. This can be sourced from the emergency panel circuit breakers typically located on the generator itself. Dedicated circuit breakers must be called out as part of the generator specifications. The emergency circuit voltage must be specified and can be either 120 Volt or 277 Volt AC.

Item # Example:

Concealite R4-Wattage-120E/Generator Leads Only
or R4-Wattage-277E/Generator Leads Only

Method #2 (Two Circuits)

The R4000 only needs to be powered during the emergency mode. The R4000 automatically returns to the closed position when the emergency circuit is de-energized. However, monitoring what is actually happening within the area and supply sources available dictates, whether one or two input circuits are needed.

Provide one emergency power circuit from a building emergency panel. This is typically a panel that is constantly supplied by normal power & backed up by emergency power via an automatic transfer switch from a generator. This emergency circuit would basically serve the R4000 with a constant hot emergency source, so we need to notify the R4000 when an actual emergency condition is occurring.

Provide one normal power circuit from a building normal power panel that is not backed up by an emergency source. This circuit would power a relay in the R4000 that would sense the loss of normal power and close the contact on the emergency circuit serving the R4000 during emergency mode.

The emergency and the normal branch circuit voltages must be specified and can be any combination of 120 Volt or 277 Volt AC.

Item # Example:

R4-Wattage-120N/120E or R4-Wattage-277N/277E
R4-Wattage-120N/277E or R4-Wattage-277N/120E