

Keyless Entry System: Additional Relay

Background

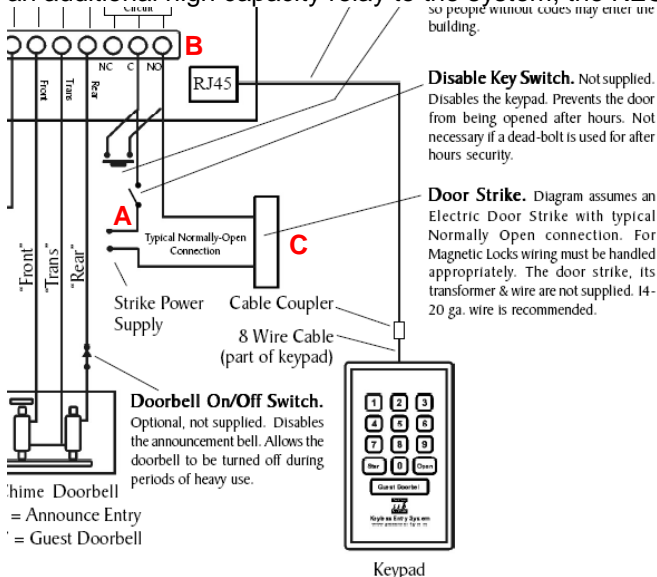
In a small number of installations, the onboard relay of the Keyless Entry System (KES) may be insufficient for the power requirements of the door strike system. The relay is rated at 110V 5A, but there are a wide variety of equipment and installation scenarios that can result in a door strike power draw that is outside of these specifications. This is likely to be the case if the relay fails multiple times, for example, 3 times within a 36 month period.

Solution

Finding the exact situation that is creating the excess power draw can be a complex task. Understanding exactly what is going on, from a wiring problem to an over-sized "industrial" strike is a good thing to do. In any case, the KES relay needs to be protected.

Wiring

In the standard diagram the strike power "A" goes through the KES relay "B" and energizes the door strike "C". By adding an additional high capacity relay to the system, the KES relay is protected with minimal additional cost.



A stout 15A relay (image below) with a terminal base can be purchased at most electrical suppliers for approximately \$25. By wiring the KES relay so it controls the large relay, the additional power requirement is accommodated.



See diagrams on next page >>

Diagram 1 – Relay Connections

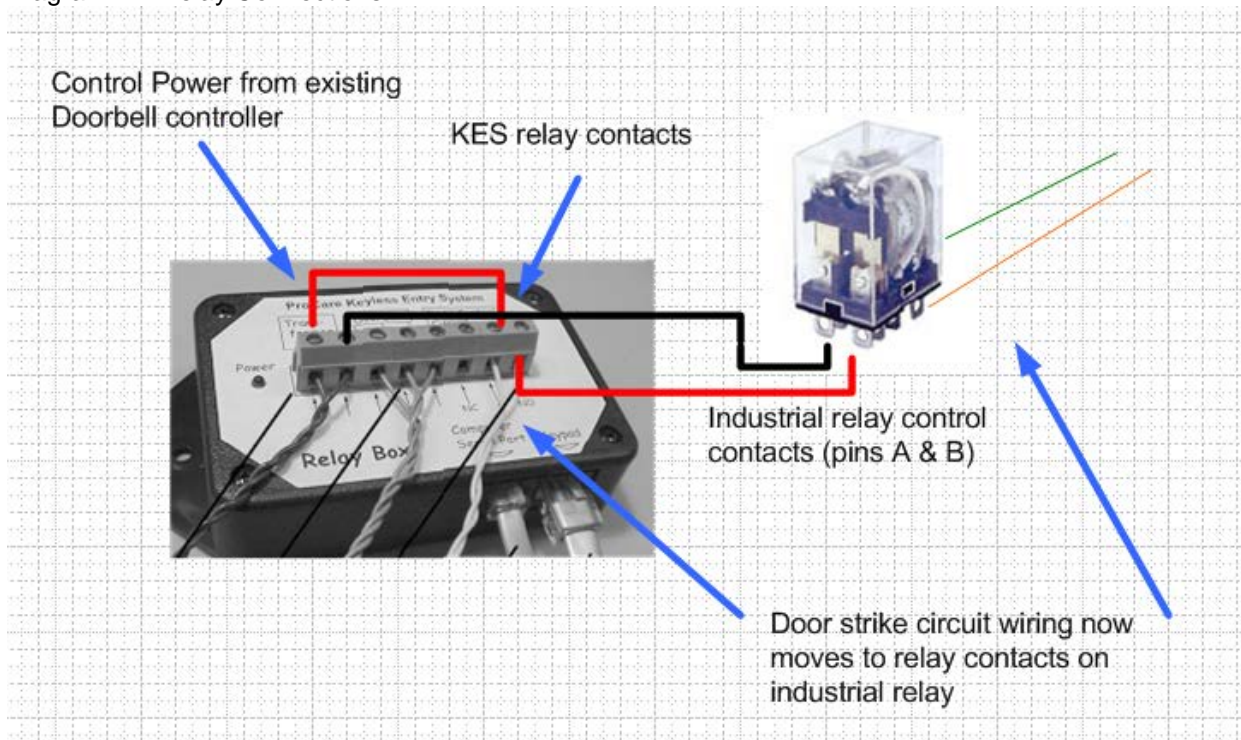


Diagram 2 – Relay Location

