# 830 Series

**Heavy Duty Keyswitches** 

## **INSTALLATION INSTRUCTIONS**

#### Section 1

### **General Description**

The 830 series SPST keyswitches are a reliable and economical way to turn on and off (830-A) or momentarily activate (830-B) automatic doors or other low voltage electrical devices.

#### **Switch Operation Options:**

| 830-A:    | Single Maintained Contact Switch             |  |
|-----------|--|--|
| 830-B:    | Single Momentary Contact Switch              |  |
| 830-AA:   | Double Maintained Contact Switches           |  |
| 830-BB:   | Double Momentary Contact Switches            |  |
| 830-AB:   | Single Maintained Contact and Single         |  |
|           | Momentary Contact Switches                   |  |
| 830-A-RG: | <b>Single Maintained Contact Switch with</b> |  |
|           | Red and Green Indicator LEDs                 |  |
| 830-B-RG: | <b>Single Momentary Contact Switch with</b>  |  |
|           | Red and Green Indicator LEDs                 |  |

In addition to the switch operation options, there are three face plate styles to choose from. Each option is also available with LED indicators. Add the suffix "-RG" to the part number to specify the LED option (830-A-RG). The RG option includes one Red and one Green LED, and one RCM Relay Conversion Module. Please refer to Figure 4 at the end of this manual for using the RCM.

The keyswitch assembly will fit in a variety of locations from a 1<sup>3</sup>/<sub>4</sub>" door frame to a single, 2-gang, or junction electrical box. Surface mounting boxes are also available from the factory.

| 830-A or B:   | $4\frac{1}{2}$ " x $4\frac{1}{2}$ " stainless steel face plate (fits |
|---------------|--|
|               | single, 2-gang, junction electrical boxes)                           |
| 830-AL or BL: | $2^{3}/4$ " x $4^{1}/2$ " stainless steel face plate (fits           |

single gang electrical boxes) 830-AN or BN: 1 11/16"x 41/2" stainless steel face plate

(fits 1<sup>3</sup>/<sub>4</sub>" door frames)

# Section 2

# **Basic Installation**

#### Single Gang Electrical Box: 830-A or B & 830-AL or BL

- 1) Install the electrical box (purchased separately) in its intended location.
- 2) Insert the mortise cylinder through the casting and attach it with the cylinder ring nut.



NOTICE: The keyswitch casting will accommodate mortised cylinder depths of  $1\frac{1}{8}$ " to  $1\frac{1}{4}$ " with standard cams. If using a different depth of cylinder, please ensure that it aligns properly with the push button switch(es).

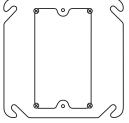
- 3) Adjust the push button switch(es) so that it aligns directly beneath the cam of the key cylinder. Using a 1/2" wrench, loosen and tighten the panel nut that holds the switch(es) in place within the casting to allow movement forward or back.
- 4) Make the appropriate electrical connections to the wires connected to the switch(es) or LED indicators.
- 5) Secure the keyswitch assembly to the electrical box with the 6-32 x 1" screws provided and adjust assembly for squareness. Attach the face plate with the two tamper proof 6-32 screws provided. MAX TORQUE 4 inch.-lbs. DO NOT OVER TIGHTEN!



NOTICE: If the electrical box is mounted too deep in the wall, it may be necessary to shim out the keyswitch assembly in order to attach the face plate.

#### 2-Gang Electrical Box or Junction Box: 830-A or B

- 1) Install the electrical box (purchased separately) in its intended location.
- 2) Attach the adaptor ring provided (see below) to the electrical box.



Insert the mortise cylinder through the casting and 3) attach it with the cylinder ring nut.



NOTICE: The keyswitch casting will accommodate mortised cylinder depths of  $1\frac{1}{8}$ " to  $1\frac{1}{4}$ " with standard cams. If using a different depth of cylinder, please ensure that it aligns properly with the push button switch(es).

- 4) Adjust the push button switch(es) so that it aligns directly beneath the cam of the key cylinder. Using a 1/2" wrench, loosen and tighten the panel nut that holds the switch(es) in place within the casting to allow movement forward or back.
- 5) Make the appropriate electrical connections to the wires connected to the switch(es) or LED indicators.
- 6) Secure the keyswitch assembly to the electrical box with the 6-32 x 1" screws provided and adjust assembly for squareness. Attach the face plate with the two tamper proof 6-32 screws provided. MAX TORQUE 4 inch.-lbs. DO NOT OVER TIGHTEN!





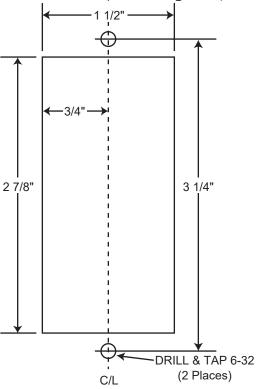
NOTICE: If the electrical box is mounted too deep in the wall, it may be necessary to shim out the keyswitch assembly in order to attach the face plate.

#### Door Frame: 830-AN or BN

830 Series

**Heavy Duty Keyswitches** 

1) Make a cutout in the door frame at the intended location. Drill and tap 2 mounting holes (see below).



2) Insert the mortise cylinder through the casting and attach it with the cylinder ring nut.



NOTICE: The keyswitch casting will accommodate mortised cylinder depths of 1<sup>4</sup>/<sub>8</sub>" to 1<sup>4</sup>/<sub>4</sub>" with standard cams. If using a different depth of cylinder, please ensure that it aligns properly with the push button switch(es).

- Adjust the push button switch(es) so that it aligns directly beneath the cam of the key cylinder. Using a ½" wrench, loosen and tighten the panel nut that holds the switch(es) in place within the casting to allow movement forward or back.
- 4) Make the appropriate electrical connections to the wires connected to the switch(es) or LED indicators.
- 5) Secure the keyswitch assembly to the electrical box with the 6-32 x 1" screws provided and adjust assembly for squareness. Attach the face plate with

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#### the two tamper proof 6-32 screws provided. MAX TORQUE 4 inch.-Ibs. DO NOT OVER TIGHTEN!

#### Section 3

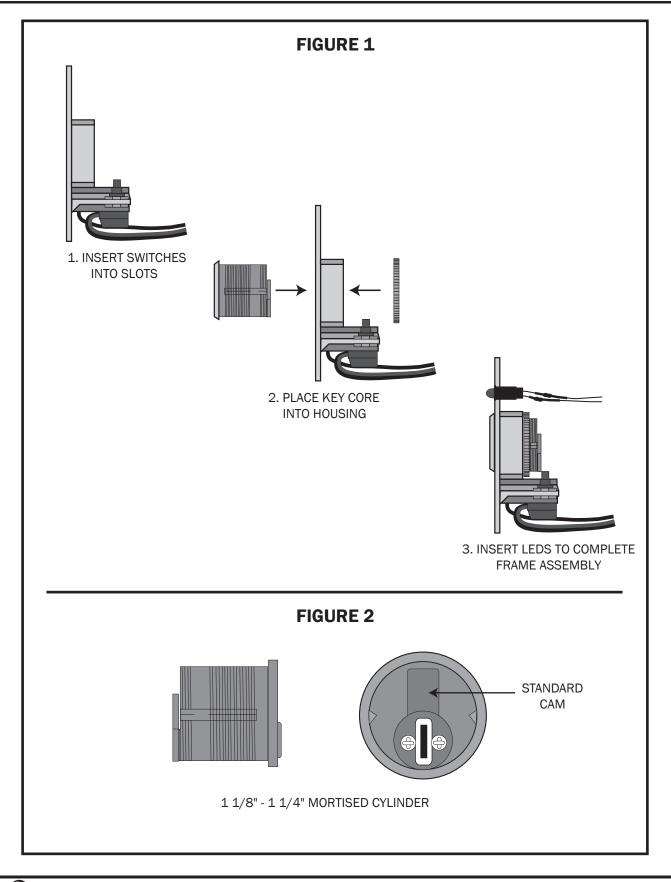
# **Technical Data**

| Momentary Push Button  | UL Listed                       |
|------------------------|---------------------------------|
|                        | Single Pull Single Throw (SPST) |
| Rating                 |                                 |
| Maintained Push Button | UL Listed                       |
|                        | Single Pull Single Throw (SPST) |
| Rating                 |                                 |
| LED Indicator Rating   |                                 |

# 830 Series Heavy Duty Keyswitches

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# **INSTALLATION INSTRUCTIONS**



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