

# 2800T Series Installation Instructions

## Architects and engineers specifications

Switch and magnet housings shall be die cast aluminum, coated with brown textured paint. Switch housing dimensions shall be nominally 1.5" (3.81 cm) W x 5.75" (14.61 cm) L x 2.0" (5.08 cm) H. Mounting holes for #10 screws shall be on 5.25" (13.34 cm) x .75" (1.91 cm) centers. Switch housing lid shall be attached on 5.25" (13.34 cm) x 1.5" (3.81 cm) spacing with #10-24 screws. Fitting with .50" threads shall be provided for direct connection to conduit. Magnet housing dimensions shall be nominally 5.75" (14.61 cm) L x .813" (2.06 cm) H x 1.5" (3.81 cm) D. Mounting holes for #10 screws shall be on 5.25" (13.34 cm) centers.

Switch shall comprise three biased reed contacts, wired in SPDT configuration, and include a plunger-type tamper actuated on removal of cover. Connection to switch shall be made by screw terminals.

### 2807T, 2808T

Switch shall include a magnetic tamper switch and an optional pry tamper switch. It shall be fastened to the mounting surface with a pry tamper plate mounted with #6 x .75" flathead screws on 2" centers. Model 2808T shall include a remote test function.

### 2804T

Switch includes a magnetic tamper switch and optional circuit breaker-type switch protection at 80% of maximum current. Switch also includes a tamper resistant, two-piece magnet.

Figure 1: 2800 series

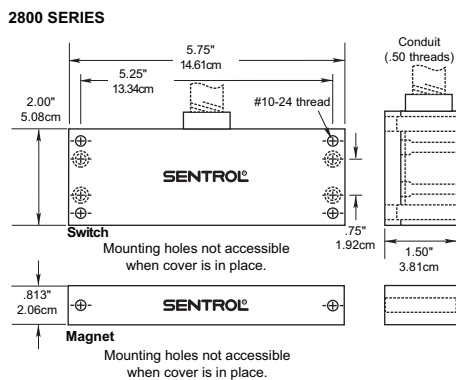


Figure 2: 2807T, 2804T series

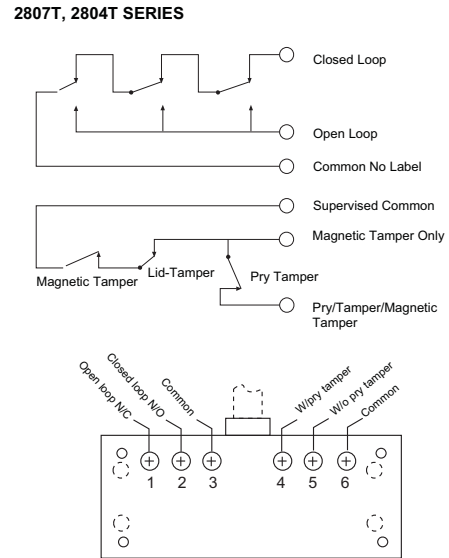
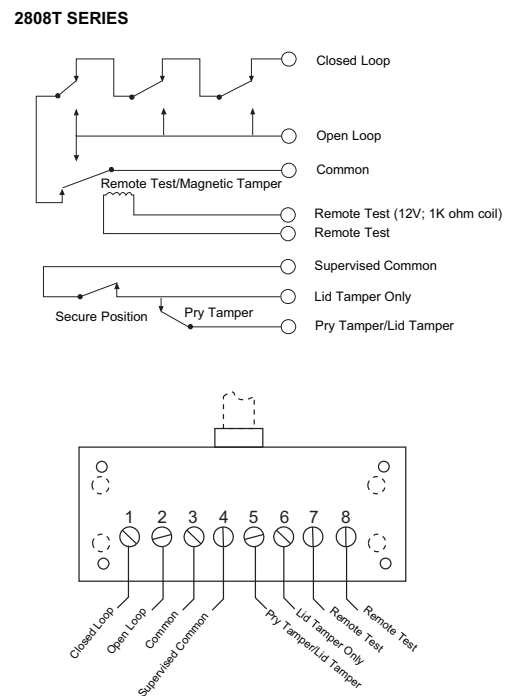


Figure 3: 2808T series



## Installation instructions

### 2807T, 2808T

Mount switch in desired location. The gap distance is approximately .4". However, environmental conditions, such as the thickness of the metal to which the switch and magnet are attached, may cause slight variations in gap distance.

Therefore, recommended installation method is as follows:

Bring magnet toward switch until ohmmeter reads "0" ohms. Mark this point, then continue bringing magnet toward switch until meter reads INFINITY. Mark this point, and position the magnet between these two marks. Once this position is established, use the magnet template and mark the mounting holes. With magnet positioned properly, the switch will trip if an external magnet (67 gauss or greater) is used in an attempt to defeat the switch.

### 2807T, 2804T

When pry tamper is used, mount pry tamper plate beneath the switch with #6 x .75" flathead screws. Connect terminals 4 and 6 to 24-hour loop. When pry tamper is not used, discard plate and connect terminals 5 and 6 to 24-hour loop. The pry tamper plate is required for the Certified Safe and Vault applications.

### 2808T

When pry tamper is used, mount pry tamper plate beneath the switch with #6 x .75" flathead screws. Connect terminals 4 and 5 for pry tamper. Use terminals 4 and 6 for use without pry tamper. The pry tamper plate is required for the Certified Safe and Vault applications.

### 2804T

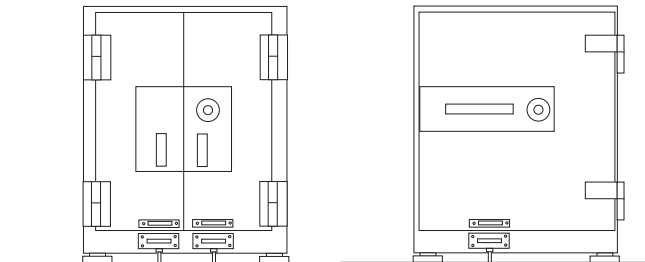
To install Model 2804T on a safe or vault:

1. Using template included for switch housing, place the bottom of template approximately 1/4" from the edge of the door on the frame. Mark the mounting holes.
2. Drill the four mounting holes 5/8" deep using a 5/32" drill. Tap the holes for a #10-24 machine screw thread. Mount the contact with the #10-24 x 1 1/4" flathead machine screws provided.
3. Before running the conduit attach an ohmmeter to the common and the closed loop terminals. Meter should read INFINITY with magnet away from switch (wiring diagram provided).
4. The magnet for the unit is contained in two pieces. The master magnet is brown, and the sub-magnet is silver. Place the sub-magnet housing into the master magnet housing, making sure that the yellow dot on the sub housing is towards the switch.

5. Position magnet and switch so that the labels read in the same direction, and the Sentrol "S" on the magnet is directly aligned with the "S" on the switch. The set-up gap distance is .4". Switches will operate at approximately .2" to .6" on closing, and go into alarm at approximately .4" to .8" on opening. Minimum gap is .1". However, environmental conditions, such as the thickness of the metal to which the switch and magnet are attached, may cause slight variations in gap distance. Therefore, recommended installation method is as follows:

Bring magnet toward switch until ohmmeter reads "0" ohms. Mark this point, then continue bringing magnet towards switch until meter reads INFINITY. Mark this point, and position the magnet between these two marks. Once this position is established, use the magnet template and mark the mounting holes.

6. First drill the two inside mounting holes 5/8" deep using a 9/64" drill. Tap the holes for a #8-32 machine screw thread. Then drill the two outside mounting holes 5/8" deep using a 5/32" drill. Tap the holes for a #10-24 machine screw thread.
7. Remove the sub-magnet housing from the master magnet housing. Mount the sub-magnet housing first utilizing the two center holes. Use the #8-32 x 1 1/2" machine screws provided. ENSURE THAT THE YELLOW DOT FACES THE SWITCH.
8. Mount the master magnet housing directly over the sub-magnet housing. Use the #10-24 x 1 3/4" machine screws provided. ENSURE THAT THE LABELS ON SWITCH AND MAGNET READ IN SAME DIRECTION.
9. Recheck switch with an ohmmeter to ensure proper continuity.
10. Install conduit.



**Table 1: Ordering information**

Part #	Loop type	Electrical configuration	Lead type	Nominal gap (make)*
2804T	Open or closed	SPDT	#6 screw terminal	3/16" min., 5/8 "max
2807T	Open or closed	SPDT	#6 screw terminal	3/16" min., 5/8 "max
2808T	Open or closed	SPDT	#6 screw terminal	3/16" min., 5/8 "max

\* Gap specifications are nominal and may vary  $\pm$  20%.

## Specifications

Form C	2844TW, 2847T, 2847TH
Voltage	30 VAC/VDC max.
Current	0.25 A max.
Power	3.0 W max.
Cover tamper	2847TH at 24 VAC/VDC, 125 mA max. at 6 to 12 VDC, 250 mA max.

## Contact information

[www.utcfireandsecurity.com](http://www.utcfireandsecurity.com) or [www.interlogix.com](http://www.interlogix.com)

For customer support, see [www.interlogix.com/customer-support](http://www.interlogix.com/customer-support)

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## Regulatory information

Listings	UL
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