

# SENTROL

## 2810T SERIES

### Installation Instructions

Models: 2814T, 2817T

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#### PRE-INSTALLATION

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##### To ensure correct switch operation without the remote test feature:

1. Check open loop operation by attaching an ohmmeter to terminals 1 and 3. The meter should read 5 ohms or less with no magnet in the proximity of the switch.
2. Check closed loop operation by attaching the ohmmeter to terminals 2 and 3. The meter should read open/infinity with no magnet in the proximity of the switch.
3. To check tamper loop operations, attach wires to terminals 5 and 6 through the conduit hub. The meter should read open-infinity with the switch lid off.

Place the lid on the switch and press it into position. The meter should read 1 ohm or less.

Now introduce a defeat magnet to the upper right side of the switch. The tamper loop will open and the meter will read open/infinity. Remove the defeat magnet. If the switch performs as just described, follow the Installation Instructions.

##### To ensure correct switch operation with the remote test feature:

1. Check open loop operation by attaching an ohmmeter to terminals 2 and 3. Meter should read 5 ohms or less with no magnet in the proximity of the loop.
2. Check closed loop operation by attaching the ohmmeter to terminals 1 and 3. The meter should read open/infinity with no magnet in the proximity of the loop.
3. To check tamper loop operation, attach the wires to terminals 4 and 6 through the conduit hub. The meter should read open/infinity with the switch lid off.

Place the lid on the switch and press it into position. The meter should read 1 ohm or less.

Now introduce a defeat magnet to the upper right hand side of the switch. The tamper loop will open and the meter will read open/infinity. Remove the defeat magnet.

4. To check the remote test, connect the ohmmeter to terminals 1 and 3. Place the actuator magnet approximately 3/8" below the switch. The meter should read 5 ohms or less.

Apply 12 VDC to terminals 7 and 8. The meter should read open/infinity.

If the switch performs as just described, fall the installation instructions.

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#### INSTALLATION

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##### For Doors Opening Inward to the Protected Area (Figure 2)

###### Mount switch only after verifying correct operation.

1. Place supplied switch housing template as close as possible to bottom of door header. It may be necessary to remove some types of door trim to provide a flat mounting surface. Mark four mounting holes and drill with a #24 (.152" dia) drill at least 5/8" into solid structure. Mounting screws are #10, thread-forming, type AB.
2. Remove switch lid, disconnect ohmmeter and power leads.
3. Install switch with appropriate fasteners to assure secure hold.
4. Install rigid conduit.
5. Make terminal connections as indicated in Figure 1.
6. Apply RTV mounting compound to lid and conduit hub to prevent moisture seepage. Replace switch lid.

##### For Doors Opening Outward from the Protected Area (Figure 3)

###### Mount switch only after verifying correct operation.

When installing the 2814T or 2817T on an outward-opening door, it is important first to **create** a flat mounting surface if the doorframe does not already have one. In figure 3, the simplest and most typical commercial installation is given. If the doorstop is less than 2 3/4", a shim may be required between the switch and frame to assure firm mounting.

1. Fold the supplied switch and magnet template and place in desired position. The .3" gap distance has already been measured. Mark all mounting holes and drill with a #24 (.152" dia.) drill at least 5/8" into solid structure. Mounting screws are #10, thread-forming, type AB.
2. With door closed, mount magnet with appropriate fasteners to assure a secure hold.

## INSTALLATION CONT.

7. Temporarily attach magnet to tamper proof mounting bracket #1960, finger tight only. With door closed, hold magnet so that the protective flange completely and squarely covers the switch lid and switch bottom is situated exactly .3" from magnet. Mark door for bracket installation.

### Alignment is critical!

8. Remove magnet from bracket. Open door and mount bracket as marked with provided fasteners. Reattach magnet loosely and reclose door. Assure .3" gap distance is correct. Mark magnet location on bracket. Open door and tighten magnet to bracket.

9. Check outputs for correct operation.

3. Open door, remove switch lid and disconnect ohmmeter and power leads.
4. Hold the switch in its mounting position to assure correct alignment with magnet. Mount the switch firmly with provided fasteners.
5. Install rigid conduit.
6. Make terminal connections as indicated in Figure 1.
7. Apply RTV mounting compound to lid and conduit hub to prevent moisture seepage. Replace switch lid.
8. Check outputs for correction operation.

**Be certain that switch and magnet line up squarely!**

## WARRANTY

Because manufacturer does not install, adjust, place or operate this security device the manufacturer cannot guarantee the performance of this security device. Therefore, there are not express warranties (except as stated herein below) or implied warranties (including any warranty of merchantability or fitness) attached to the sale or use of this product.

In lieu of all other express warranties or any implied warranties MANUFACTURER EXPRESSLY WARRANTS against defects in material and workmanship in the security device for eighteen (18) months from the of manufacture. During the warranty period, the manufacturer will repair or replace, at its sole option, free of charge, any defective unit returned freight prepaid. This warranty shall remain in full force and effect for eighteen (18)

months provided that the unit: Is owned by the original purchaser; was properly installed and operated; has not been subjected to abuse or misuse; and, has not been repaired, altered or modified outside manufacturer's authorized facilities.

The foregoing states the buyer's sole and exclusive remedy for any breach of warranty or for any claim, whether sounding in contract, tort, strict liability or negligence, based upon any defect in this security device. Manufacturer shall in no event be responsible for any incidental or consequential damages incurred by the buyer.

This warranty gives you specific legal rights and you may have additional rights which vary from state to state.

## ORDERING INFORMATION

Part Number	Loop Type	Electrical Configuration	Finish	Gap Distance	Setup Housing	Guarded Shield	Internal
2814T	Open or Closed	SPDT	Textured Brown	.2 to .6"	.4"	Yes	No
2817T	Open or Closed	SPDT	Textured Brown	Up to .5"	.3"	Yes	No

**Form C:** (2814T, 2817T)

European Union Specifications; 48 V AC/DC Max., 0.5 Amp

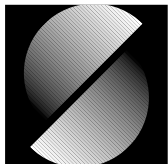
Voltage: 100 V AC/DC MAX.

Current: 0.3 A MAX.

Power: 3.0 W MAX.

Cycles: 10,000,000

\*\* Gap distances are nominal make distance  $\pm$  20%.



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Sentrol reserves the right to change specifications without notice.

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