Prepare door and frame.

Prepare center hinge position of door and frame for 3 knuckle hinge or 5 knuckle hinge, as shown below. Note that the swing clear 5 knuckle model uses the same preparation as the 3 knuckle hinges. Deburr holes to prevent wire damage.

### 5 Knuckle Hinge (Except Swing Clear Models)

![Diagram of 5 Knuckle Hinge](image)

- Drill 3/4" dia. hole in door
- Right Hand Shown (Left Hand Opposite)
- Drill 1" dia. hole in frame

### 3 Knuckle Hinge (and Swing Clear 5 Knuckle Models)

**Left Hand Door**

- Drill 1" dia. hole in frame
- 1 1/16" (4.5" high leaf)
- 1 3/16" (5" high leaf)

**Right Hand Door**

- Drill 1" dia. hole in frame
- 1 1/16" (4.5" high leaf)
- 1 3/16" (5" high leaf)

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For hinges with monitor switch*, determine correct wiring configuration.

Using black and white wires:
When door is secure (closed position), the monitor switch shows a closed contact. When the door is unsecure (open position), contact is open.

Using black and green wires:
When door is secure (closed position), the monitor switch shows an open contact. When the door is unsecure (open position), contact is closed.

Connect wiring, and install hinge.

3a Check hinge fit in prepared door and frame. Hinge should fit easily without binding.

Warning: Do not hammer hinge for any reason. It can cause serious damage and shortened life.

3b Open door to 90° or more for access to jamb preps.

3c Extract exterior wiring through the prep holes from the door jamb.

3d Attach wires in accordance with project wiring diagrams, ensuring that the same color wires are connected properly on both sides of hinge.

3e Terminate wire connections with appropriate crimp splices or wire nuts.

Note: It is helpful to stagger terminations. This allows for easier insertion of wires through prep hole.

Warning: Do not hang hinge by wires during installation. Serious damage could occur.

3f After all terminations are completed, carefully slide wires through prep hole, making sure that wires are placed so they will not be cut or pinched as hinge is installed.

Electrical Specifications

Through-wires:
Each wire is 28 AWG and rated 50 Volts AC/DC at 3.5 amps max. continuous, or 16 amps max. pulse (maximum pulse width 400 msec. with minimum "off" time between pulses 10 seconds)
For continuous current greater than 1.5 amps, use two or more wires in parallel. It is recommended to use an equal number of ground and power wires.

Electric Monitor Switch*:
Maximum rating of switch 30 VDC at .5 amps.

For hinges with monitor switch*, adjust hinge gap for desired operation, if needed.

Note: All concealed monitor hinges (MON & TWM) are pre-adjusted at the factory to ⁵⁄₁₆" - ⁷⁄₁₆" gap between hinge leaves.

4a Remove hinge leaf from frame side by removing mounting screws.

4b Swing hinge out of frame prep hole to expose the brass switch enclosure.

4c Using a small standard blade screwdriver, turn screw clockwise to increase gap. Turn screw ½ turn, then check gap between hinge leaves. Repeat process until desired switch gap is achieved.

Note: Items marked with an asterisk (*) have not been evaluated by UL.
### INSTALLATION INSTRUCTIONS TW4 AND TW8

<table>
<thead>
<tr>
<th>Material</th>
<th>White Paper</th>
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#### Additional Notes:
1. None

#### Notes:
1. printed two sides
2. printed black
3. tolerance ± .13
4. printed in country may vary
5. drawings not to scale

#### Revision History

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- **Edited By**: D. Rollison
- **Approved By**: M. Roberts
- **EC Number**: 078533
- **Release Date**: 01-28-19

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