

APPLICATION PROCEDURE

- For use with concealed electric monitored hinges.
- Steel hinges for interior use only.
- Brass and stainless steel hinges for interior and exterior use.
- Install Hager 430 mortar box on mortar filled frames. Failure to install mortar box will void manufacturer's warranty.

ELECTRICAL RATINGS

- Maximum electrical rating of switch: 30 Volts DC @ .5 Amp
- Wire gauge size: 28 AWG
- **Closed loop secure**

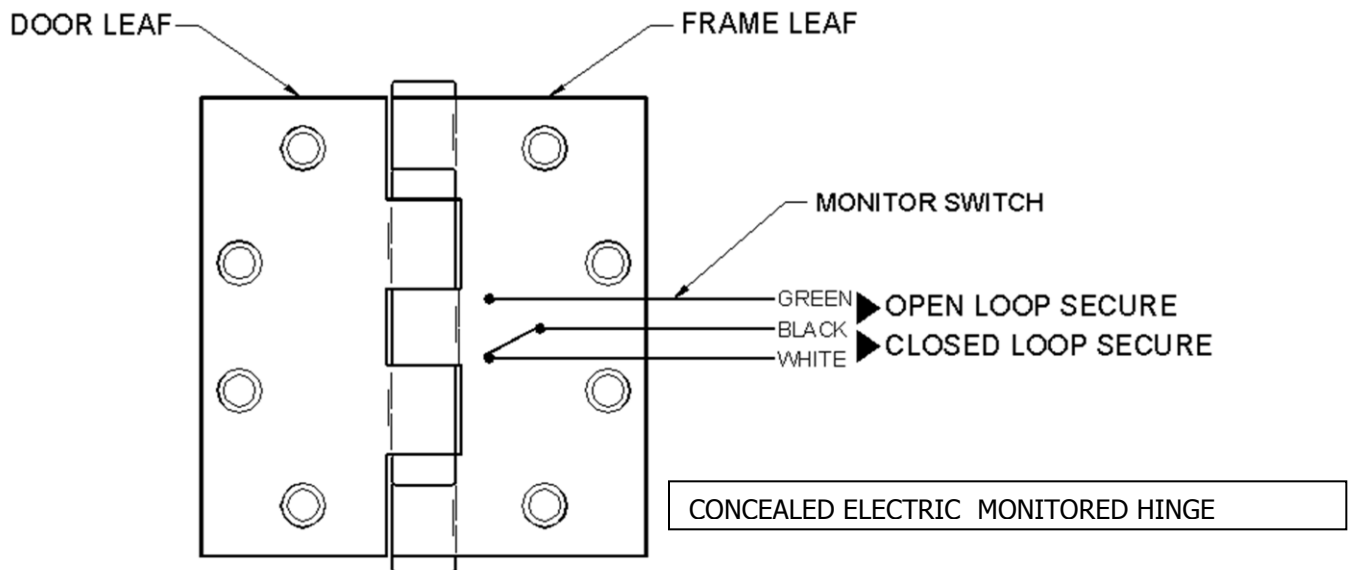
Use black and white wires

When the door is secure (closed position), the monitor switch shows a contact closed state. When the door opens (unsecure position), an open contact is detected as an alarm.

- **Open loop secure**

Use black and green wires

When the door is secure (closed position), the monitor switch contacts are open. When the door opens (unsecure position), a closed contact is detected as an alarm.



DOOR AND FRAME PREPARATION

- Door and frame must be prepared in accordance with the appropriate EMN template.
- Monitored hinges are non-load bearing and must be mounted in the center hinge position only.
- Do not attempt to disassemble hinge. Hinge must be installed assembled. If hinge is disassembled, manufacturer's warranty will be void.

- Wire access holes must be free of burrs and sharp corners. Check to make sure that hinge fits freely in prep. To avoid damaging and or shortened life, do not force hinge into prep hole.
- Hang the door on the top and bottom hinges first (note: these are non-electrical hinges).

INSTALLATION

- Attach wires in accordance with project wiring diagrams.
- Open door to 90° or more for access to jamb preps.
- Extract interior wiring through the prep hole from the jamb.
- Terminate wire connections with appropriate crimp splices or wire nuts.
Note: it is helpful to stagger terminations. This allows for easy insertion of wires through prep holes.
- **Do not hang hinge by wires during installation or serious damage could occur.**
- Insulate all ends of unused wires.
- 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.

ADJUSTMENT

- All concealed electric monitored hinges are pre-adjusted at the factory. This adjustment is such that the door cannot be opened more than 2" inches before the switch contacts change state. Measurements should be made between the door and the frame opposite the hinge side.

If further adjustments are necessary follow these instructions:

Step 1: Remove hinge leaf from frame side by removing mounting screws.

Step 2: Carefully swing hinge from frame prep hole to expose brass switch enclosure. It is not necessary to remove wire connections.

Step 3: Using a small standard blade screwdriver, turn screw clockwise to increase gap. Turn screw one-half turn, then check gap between hinge leaves. Repeat process until desired switch gap is achieved.

If proper gap cannot be achieved within 1-2 full turns, please consult factory.

Step 4: Install hinge into frame prep and secure with screws.

