EPT / EPTL ELECTRICAL POWER TRANSFER
INSTALLATION INSTRUCTIONS

1. DESCRIPTION

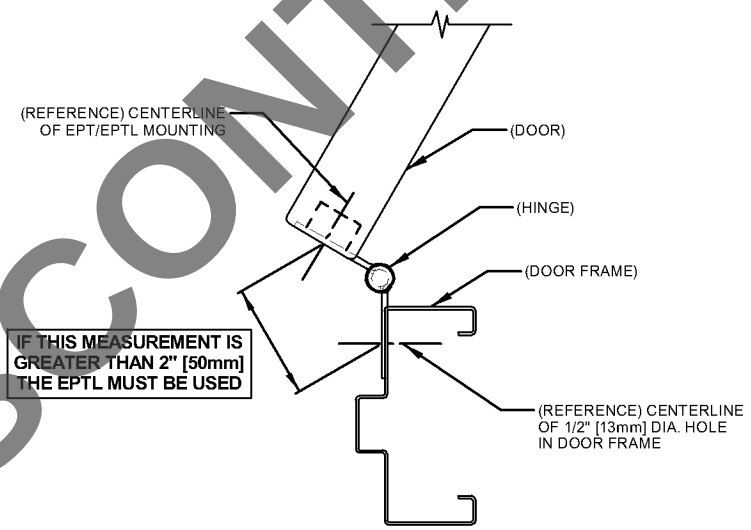
The EPT or EPTL installs between the edge of a door and frame allowing power to be routed to the door in a fully concealed fashion. The EPT includes a flexible steel shield of roughly 5/16" [8mm] (internal) diameter through which an installer supplied cable can be passed. This allows operation of a door mounted electric lock or an electrified exit device Touch Sense Bar. The EPT/EPTL may be employed with any door hung with butt hinges, continuous hinges or pivots which are offset 3/4" [19mm] or less. **It is not compatible with center pivot doors**. Also, **the EPT should not be used on fire rated doors** (as cutting into the door is not allowed).

2. PHYSICAL INSTALLATION

Prior to installation, ensure that you have the **correct version of the electrical power transfer** for the particular door/frame. The shorter EPT is used when the gap between the door edge and the frame is small (when the door is fully open). Otherwise, the longer EPTL is used.

A simple measurement may be taken to determine which power transfer version is correct for the application: **Figure 1** shows this measurement graphically.

Figure 1: SELECTION OF EPT OR EPTL



- After the door has been fully opened, measure from the center of the door edge (where the power transfer will be installed) to the corresponding position on the frame. If this distance is **more than 2" [50 mm]**, **the EPTL must be used**; otherwise the EPT may be used.

Once you have verified that you are using the correct version, use the following step by step procedure and **Figures 2** and **3** (showing the exploded assembly and routing detail) to install the unit into the door and frame.

Note: Routing is generally performed into the edge of the door (as shown) but this can be reversed with the routing being done into the frame.

1. Using a router, cut the 1.00" [25mm] wide X 0.67" [17mm] (minimum depth) slot into the edge of the door as shown in **Figure 3**. Note that the slot should be located as close to the face of the door which carries the hinge as possible. If the door is hollow metal, the slot should be positioned right up next to the inner surface of the door wall. If the door is wood, the slot should be inset about 1/4" [6mm] from the door face as this will leave enough wood along the edge of the door to provide a strong installation.

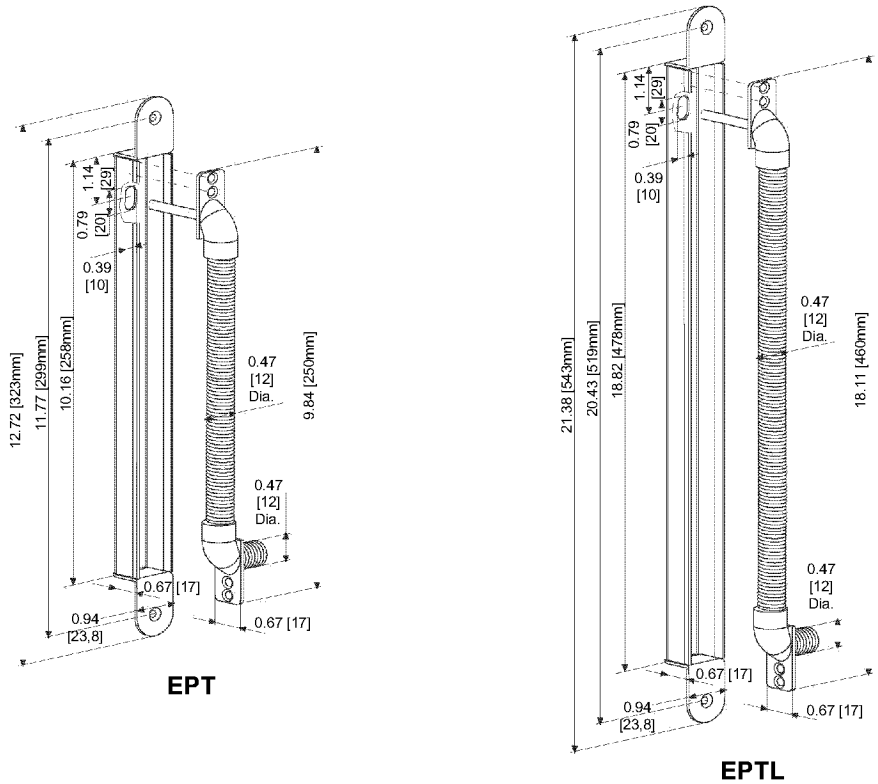
    a. For wooden doors, place the support cover of the unit into place in the routed cut out performed in step 1, and using the oblong hole in the cover, mark center position for the 1/2" [13mm] diameter hole required for the cable. Then drill the 1/2" [13mm] diameter hole through the door.

2. Locate and mark the 1/2" [13mm] on the frame, then using a drill bore a 1/2" [13mm] diameter hole through the door frame as shown in **Figure 3**. **Note: The center of this cable hole in the frame must align with the center of the support cover when the door is closed or the EPT/EPTL will not function properly**.

3. Pull the wire from the door, through the oblong hole in the support cover, into and through the flexible shield and finally through the door frame via the hole drilled in step 2.

4. Using a screwdriver and the two (2) mounting screws included, install the support cover into the routed slot in the door and then install the top of the flexible shield through the back of the support cover using its two (2) screws.

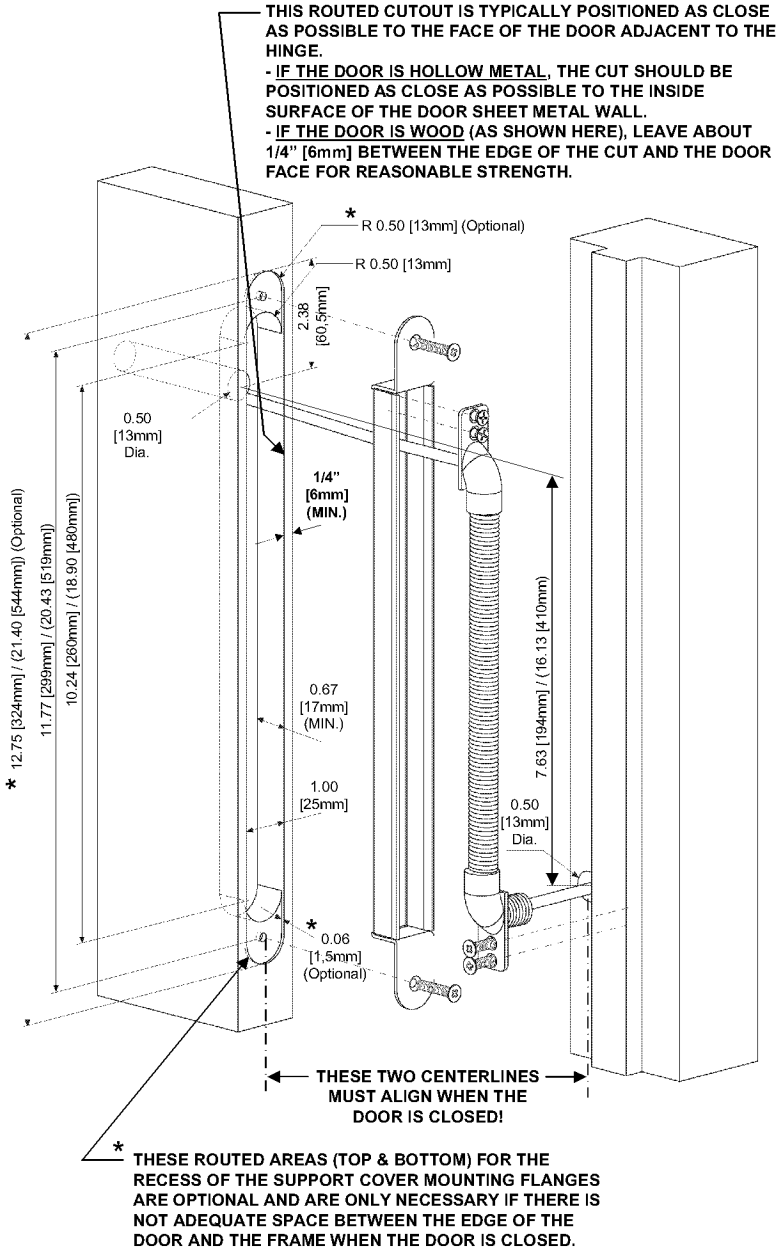
Figure 2: EXPLODED ASSEMBLY VIEW OF EPT & EPTL



5. Insert the bottom end of the flexible shield into the frame and mark the two (2) holes of the mounting flange on the frame. Remove the end of the flexible shield from the hole and drill two (2) 7/64" [2,7mm] diameter holes into the frame.

6. Using a screwdriver and the two (2) screws provided, install the bottom end of the flexible shield into the frame. *Note that the ends of the shield freely rotate so that they can be positioned (rotated) square prior to being installed into the door and frame respectively.*

Figure 3: ROUTING DETAIL



Notes:

- Dimensions in (Parenthesis) are for EPTL.
- Dimensions in [Brackets] are metric (millimeter).