PBSCM PUSH BUTTON STATION CONDUIT MOUNT

This mount is designed to facilitate easy routing and connection of ½" diameter conduit to the bottom of the mount, prior to securing an iNS/iDS (or any other Polara model push button with the same form factor), to a wooden pole, or flat concrete or metal surface that does not allow internal wire routing to the button. This mount is constructed from aluminum and is powder coated, black. A 1/2" straight liquid tight conduit fitting and mounting hardware is included for attachment to a wood pole. For attachment to a concrete or metal surface, the installer must determine and acquire the proper hardware required for secure mounting.
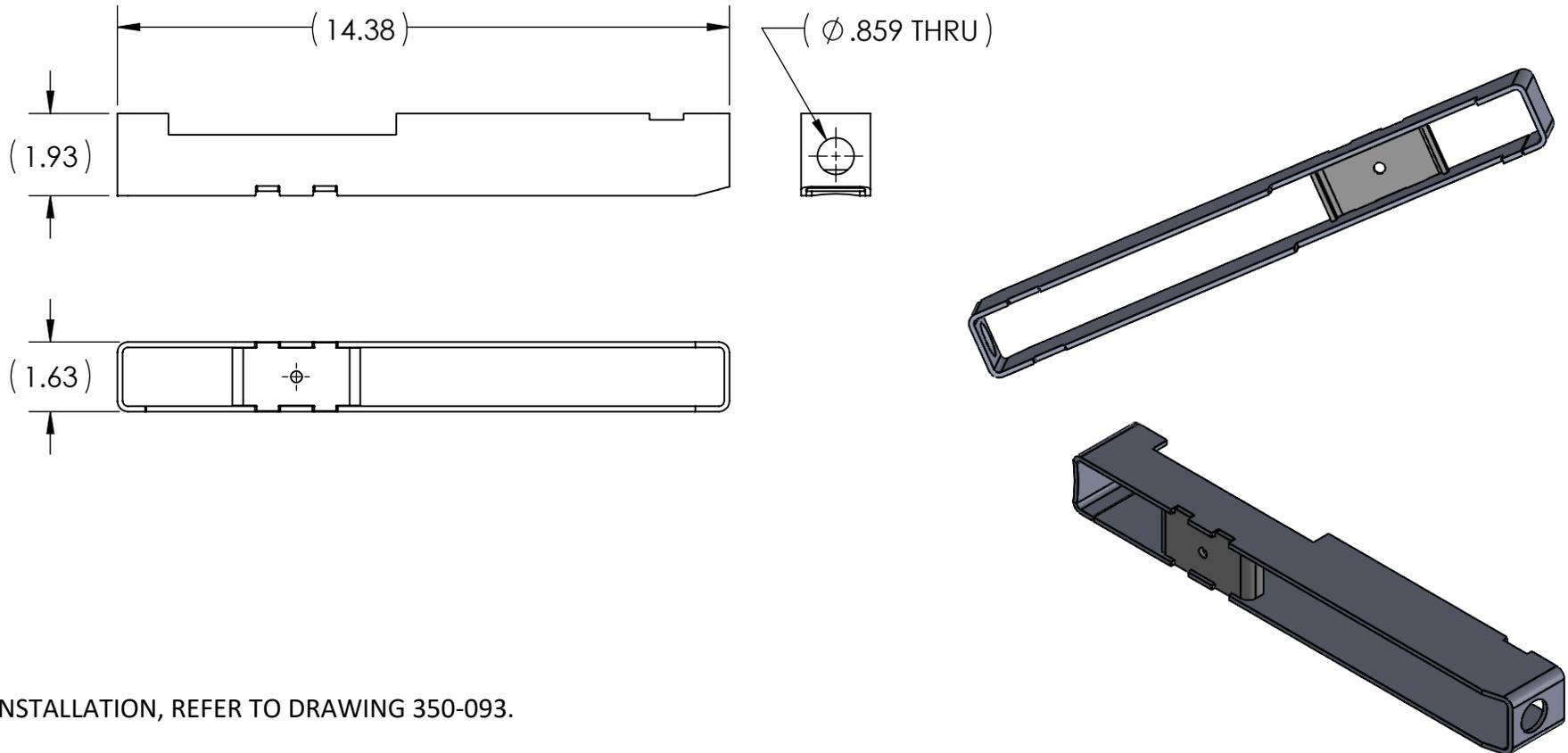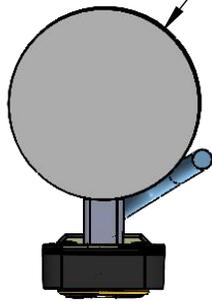
FOR INSTALLATION, REFER TO DRAWING 350-093.
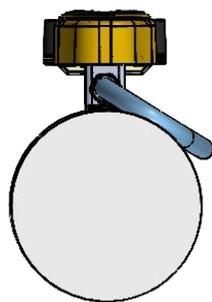
Dimensions are in inches.

PBSCM

MOUNTS TO AN 8" DIAMETER (OR LARGER) POLE,
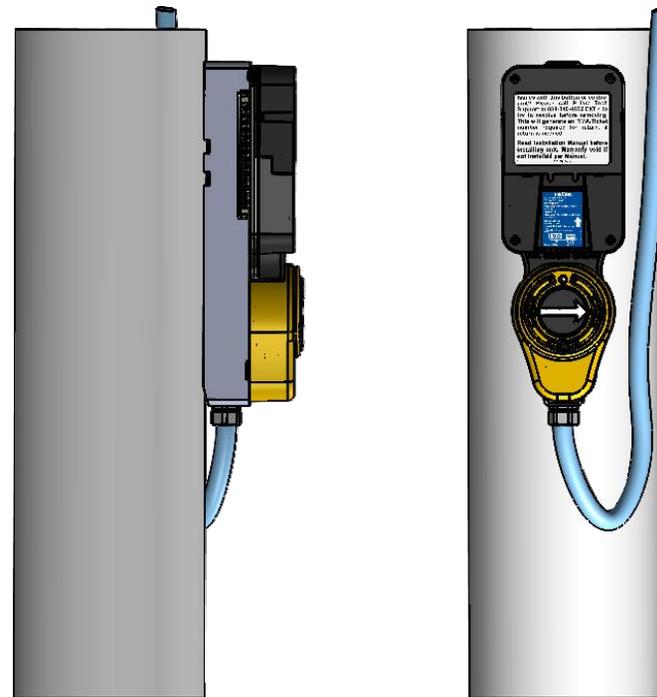FABRICATED FROM ALUMINUM, POWDER COATED BLACK

Ø8.00 POLE
OR LARGER
(INCLUDING
FLAT SURFACES)

TOP VIEW

BOTTOM VIEW

Dimensions are in inches.

PBSCM: Push Button Station Conduit Mount

1. Note: When installing a Polara push button station to a wood or concrete structure using this Conduit Mount, the installer must provide an earth ground wire (in the 14-16 AWG range) in addition to the wires required to operate the button. Please carefully plan out all wires needed and make sure there is one available for an earth ground connection to the push button station. The PBSCM comes with associated Hardware Kit (HK-036) that has the necessary mounting hardware for installation to a wood pole/surface. If installing to a concrete surface, the installer must provide the appropriate bolts and hardware to accomplish the task. The following instructions are for attachment to a wood pole/surface.
2. Position the PBSCM bracket on the wood pole at the desired location and height. Using the 1 1/2" long lag screw (1/4-10X1-1/2XXHHGV), a helical spring washer (HSR1/4HS), and a flat washer (FPA1/4-NSS) insert the screw through the hole of the center mounting plate of the bracket, and tighten until snug. (Figure 1)
3. Install the conduit into the conduit fitting (802-1003) then install the conduit fitting into the hole at the bottom end of the bracket, tightening the nut until secure. (Figure 2).
4. Feed the wires/cable through the conduit and fitting (if not already done) so that a minimum of 6" of wire/cable extends beyond the fitting. If using cable, strip off a minimum of 4" of the outer jacket from the end of the cable. Strip approximately .25" of insulation off each wire for connection to the push button station.
5. Dress wires so that 3"- 4" of wire extend beyond the bottom edge of the bracket, then push any excess wire back into the conduit, or into bracket area.
6. Remove ground screw (do not lose screw) from terminal block area of push button station, and remove push button module from backplate. Mount push button backplate to bracket using two 3 1/2" long lag screws (1/4-10X3-1/2XXHHGV), two helical spring washer (HSR1/4HS), and two flat washers (FPA1/4-NSS) as shown in Figure 3, making sure top edge of backplate is flush to top edge of bracket.
7. Route wires through opening just below terminal block area of push button module, mount module onto backplate, then install sign backplate (if using) and sign to hold module to backplate.
8. Crimp fork terminal to earth ground wire then reinstall #8 screw (removed in step 6), and secure fork under the #8 ground screw making sure it is straight and does not short to any nearby pads on PCB.
9. Connect all wires to terminal blocks of button module. Observe any polarity or connection requirements per the appropriate push button model Installation Manual.
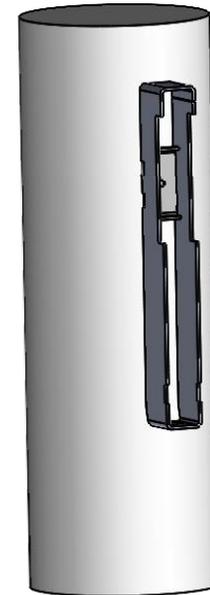10. Install button cover and test button for proper functionality. (Figure 4)
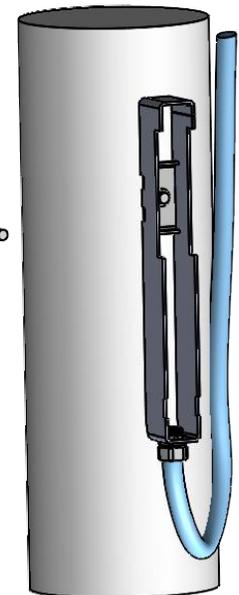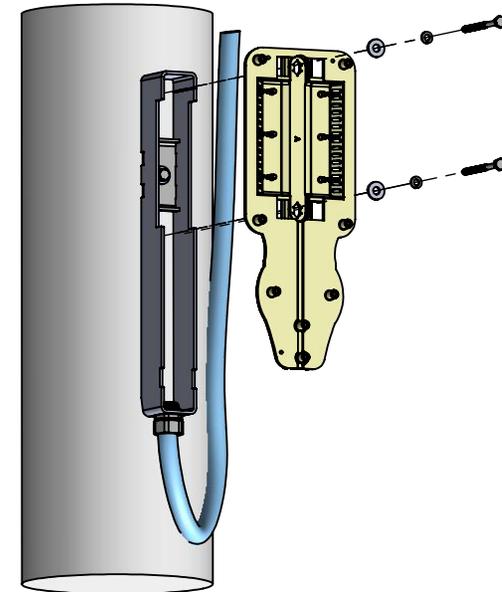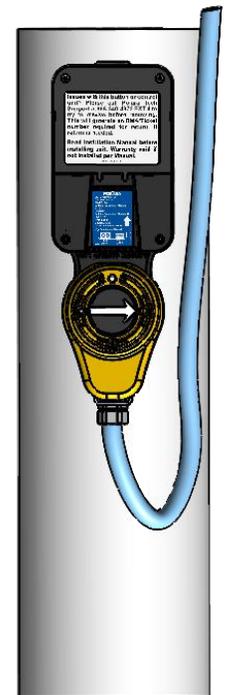

Figure 1

Figure 2

Figure 3

Figure 4

Dimensions are in inches.