

SPECIFICATION

PIEZO PUSH BUTTON ASSEMBLY - PASSPORT

MATERIAL: The Push Button Body, Push Button Cover, and Stainless Steel Plunger shall be metal castings with the following properties:

Casting:	<u>Body</u>	<u>Cover</u>	<u>Plunger</u>
Process:	Permanent Mold	Die Cast	Investment Cast
Material:	319 Alum	319M Alum	CF8 Stainless Steel
Yield Strength (min):	14 ksi	24 ksi	30 ksi
Tensile Strength (min):	27 ksi	27 ksi	70 ksi
Elongation (% in 2"):	2	2.5	30

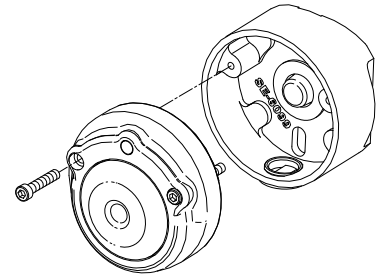


Figure 1

All castings are to be free of voids, pits, excessive grinding marks and with all design radii that are smooth and intact. Exterior surfaces shall be smooth and cosmetically acceptable, free of molding fins, cracks and exterior blemishes.

DESIGN:

1. Round Push Button Assembly:

The assembly shall be built with the design characteristics shown in Figure 1. The cover shall attach to the body with two screws and not require an adapter. The body shall mount on round poles, or flat poles with an adapter, and shall have a threaded (1/2" NPT) conduit opening in the bottom. The back of the body shall have a capped hole that can be threaded to 1/2" NPT for conduit.

2. Round Push Button Cover Assembly :

The cover assembly shall be built for visual and audio confirmation of pedestrian actuation. When actuated, the visual confirmation shall have an ultra-bright LED flash, with a minimum luminous intensity of 1200 mcd. The audio confirmation, when actuated, shall have two sounds. The higher tone will sound when the plunger is pushed, and a slightly lower tone when the plunger is released.

3. Round Plunger:

Push Button Plunger diameter shall be 2-1/8" diameter and made of corrosion resistant stainless steel. The center of the Plunger is to have a recess for actuation by small, or gloved, hands, canes and umbrellas. The actuation force of the Plunger assembly shall be 3 pounds, or less, and not require any adjustments, including when manufactured. The back of the cover is to be sealed to 68 IP specifications and have a terminal strip for connection of the two wires to the traffic controller cabinet

FINISH:

The Push Button Cover and Body shall have a matte aluminum conversion type finish to resist corrosion and oxidation. If specified, the body and cover assembly shall be a TGIC powder coating that is baked in an oven after painting. The stainless Plunger is to have a semi-smooth, almost polished, finish that resists scratches and oxidation.

UNIQUE

FEATURES:

1. Double electrical circuit protection against surges of short and quick voltage spikes and of hard and heavy voltage spikes.
2. "Lifetime Warranty" of cover assembly.

DELIVERY:

Upon request, successful bidder shall deliver a completed assembly within 10 working days after bid opening date.