

3-Position Momentary Action, Miniature, One or Two Step Commercial Pushbuttons

OTTO'S unique 3-position P2 pushbutton offers two levels (steps) of momentary switch action plus "rest" (or "off") for applications requiring three modes of operation.

Each detent operates an independent set of SPDT contacts rated to 5A @ 28VDC or 125 VAC wrapped up in a miniature sized watertight and dusttight package.

The OTTO P2 series works like this: Upon actuation, level one is reached with a positive tactile feel transmitted back to the operator. The operator has the option of either releasing the pushbutton, which will return to the normal (off) position, or continuing to level two. Upon release, the pushbutton returns to the normal position.

Designed for applications in the commercial market such as the control of two-speed motors, the P2 also works well in numerous military applications.

P2 Key Features:

- Unique three-mode design
- Sequential DPDT contact action
- One Step and Two Step versions
- 6 circuit forms
- Watertight and dusttight
- 25,000 mechanical cycles
- Small size



P2-1



P2-3

Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Load Sea Level @ 28VDC
or 125VAC, 60/400Hz

Resistive 5A
Inductive 3A
Lamp 3A
DWV 1000Vrms Initial
Low Level 10mA @ 5VDC Resistive

Electrical Life: 25,000 cycles

Mechanical Life: 25,000 cycles

Seal: Watertight per MIL-PRF-8805 Design 2 and
Dusttight per MIL-PRF-8805 Design 3

Operating Temp Range: -55°C to +85°C

Operating Forces: Pole One: 2.9 lbs. ± 0.6 lbs.
Pole Two: 5.0 lbs. ± 1.5 lbs.

Release Forces: Pole One: .75 lbs. min.
Pole Two: 1.0 lbs. min.

Total Travel: One Step Style .125 max, TwoStep Style .250 max

Overtravel: 0.015 inches min.

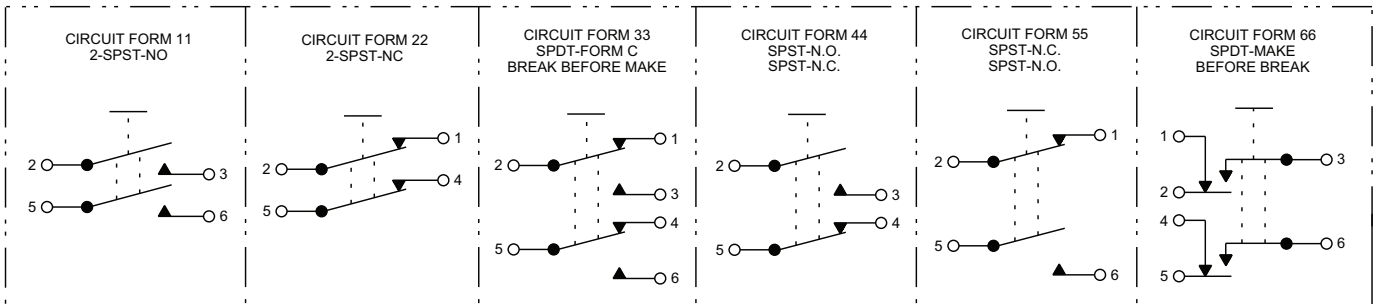
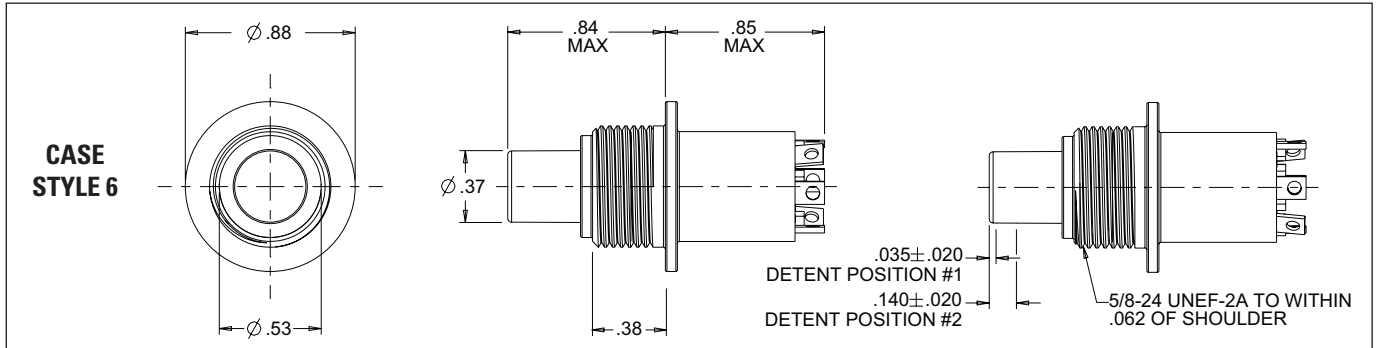
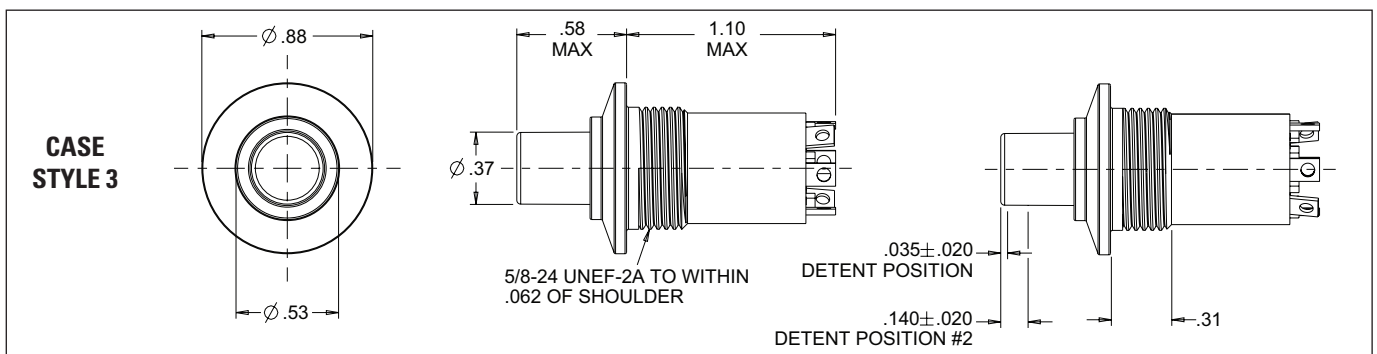
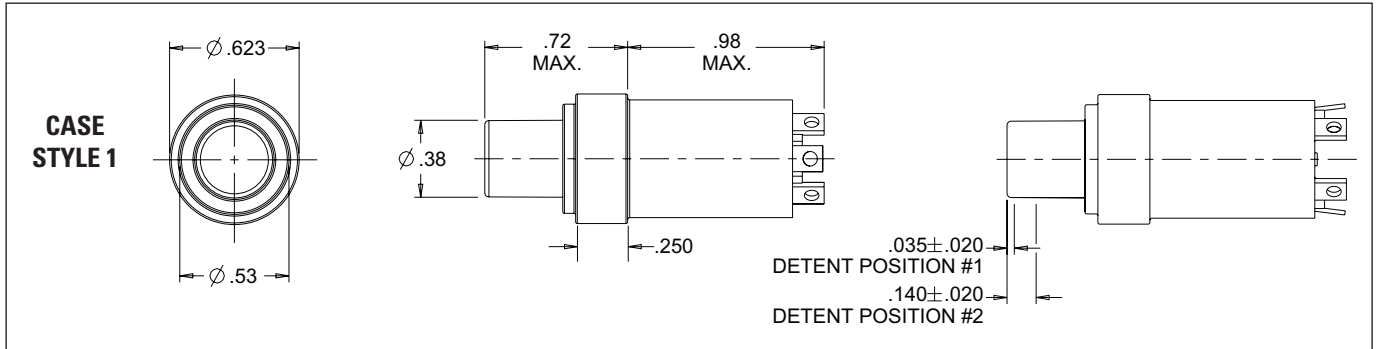
Pretravel: 0.020 inches min.

MATERIALS:

Case: Black anodized aluminum alloy

Button: Thermoplastic

Mounting Hardware: Hex nut and lockwasher for case styles 3 and 6



For two step switches:

Circuit 1-2-3 operates and resets between the first and second detent.

Circuit 4-5-6 operates and resets between the second detent and full travel.