## Heavy Duty Hesitation Switches



## Product Description

## One-Hole Panel Mount

These heavy duty toggle switches are available in either two- or three-position. The three-position switches offer a unique positive center stop feature, which assures that the lever cannot be thrown from one side through the center OFF position without stopping. This design feature is a major factor in their widespread acceptance for motor reversing and speed control applications.

The most common application for the switch is to help prevent motor damage resulting from the high current generation by counter EMF of the armature at the time of reversing. This type of device is referred to within the industry as an antiplugging, hesitation, positive stop or positive off switch. Typical applications include bench tools, coach and truck (electric lift) and X-ray equipment.

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## Flush Mount

These three-position switches also offer the positive center stop feature where the lever cannot be thrown from one side through the center OFF position without stopping. The high ratings of this series allow it to be used with a broad range of heavy duty applications. Copper contacts and brass screw terminals are standard.

## Standards and Certifications

- UL Recognized (except where noted)
- CSA Certified (where noted)
7 (5)


## Product Selection




Heavy Duty Hesitation Switches—Flush Mount

| Rating | Poles and Throw | Circuit with Toggle in ... |  |  |  | Termination Type | Catalog Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | UP Position $\square$ 四 | CENTER <br> Position <br> $\square$ III | DOWN <br> Position <br> (Keyway) | Lever Type |  |  |
| $20 \mathrm{~A}, 125 \mathrm{Vac} / \mathrm{Vdc}$ $10 \mathrm{~A}, 250 \mathrm{Vac} / \mathrm{Vdc}$ | 2PDT | $\begin{aligned} & \text { ON } \\ & \text { ON } \end{aligned}$ | $\begin{aligned} & \text { NONE } \\ & \text { OFF } \end{aligned}$ | $\begin{aligned} & \text { ON } \\ & \text { ON } \end{aligned}$ | Square <br> Square | Screw Screw | $\begin{aligned} & \text { 7810K1 } \\ & \text { 7810K2 } \end{aligned}$ |
| $30 \mathrm{~A}, 125 \mathrm{Vac} / \mathrm{Vdc}$ $20 \mathrm{~A}, 250 \mathrm{Vac} / \mathrm{Vdc}$ | 2PDT | ON | OFF | ON | Square | Screw | 7811K5 3 ${ }^{(5)}$ |
|  | 3PDT | ON | OFF | ON | Square | Screw | 7812K2 |
|  | 4PDT | ON | OFF | ON | Square | Screw | 7813K2 |

## Notes

(1) Listed rating for 125 Vac also applies at 28 Vdc .
(2) Supplied in a four-pole base.
(3) CSA Certified.
(4) Also rated 5A, $600 \mathrm{Vac} ; 1-1 / 2 \mathrm{hp}, 250 \mathrm{Vdc} ; 2 \mathrm{hp}, 240 \mathrm{Vac}$.
(5) Also rated $2 \mathrm{hp}, 250 \mathrm{Vac} / \mathrm{Vdc}$.

## Technical Data and Specifications

Heavy Duty Hesitation Switches

| Description | Specification |
| :--- | :--- |
| Ratings | See Product Selection tables; Switch ratings at 125 Vac also apply to 28 Vdc |
| Circuits | 2PDT, 3PDT, 4PDT; maintained action |
| Contact mechanism |  |
| One-hole panel mount | AC rated devices-slow-make/Slow-break butt contact |
|  | AC/DC rated devices—Quick-make/quick-break wiping contacts |

## Dimensions

Approximate Dimensions in Inches (mm)

## One-Hole Panel Mount

7990K10—4PDT


Approximate Dimensions in Inches (mm)

## Flush Mount

7810K2—2PDT
$7811 \mathrm{~K} 2-2 P D T$


7813K2—4PDT


