



523 FULLY CONCEALED DOOR POSITION SWITCH

Description

A sensitive, door-actuated switch for monitoring the positions of a swinging door. It senses when a door is moved from its fully-closed position and allows a signal to be sent to a remote location – activating an alarm and/or indicating lights – or it can be used for electrical interlocking.

Applications

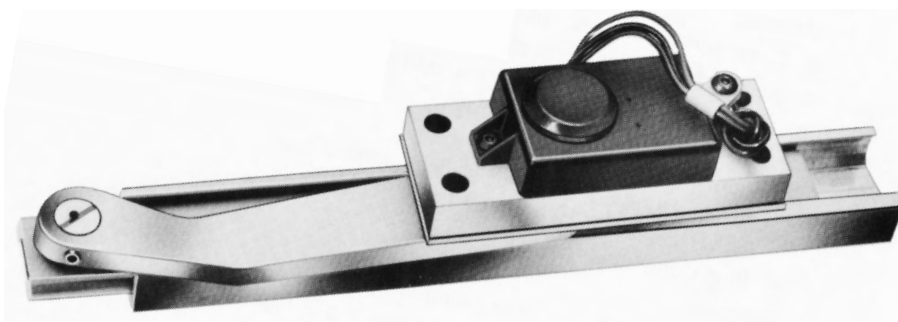
This switch is recommended for any indication/interlocking circuit, in conjunction with the indication switches for locks, for producing a “secure” signal that a door is closed and locked – primarily for medium/minimum-security doors.

Ideal for all in-swinging door conditions, and can be used on either interior or exterior doors.

Operation

The indication switch is factory set and trips when a 3'-0" wide door moves approximately 3/8" away from the doorstop. (A 1/4" allowance of door movement is built into this setting, eliminating a false indication which may be produced by shaking the door.) A fine adjustment for variations in field conditions is provided by an eccentric stud on the connecting arm.

As the door is opened, the slide conceals its opening in the track. When the door is closed, the unit is fully concealed.



Standard Features

- **Mortise installation** – Switch body mortises into the header of a standard, 2" high door frame and the track mortises into the top edge of a door.
 - **Fully concealed** – Switch body and track are inaccessible when the door is closed.
 - **Self-concealing slide and track** – low-friction, nylon slide and extruded, aluminum track with a natural finish.
 - **Adjustable switch** – An eccentric stud on the connecting arm provides a fine adjustment of the switch for variations in field conditions.
 - **Plug connector** – A two-piece, electrical connector which permits field wiring, without having the switch present, and allows removal of the switch, without disturbing the field wiring. The receptacle of this connector has 9" long wire leads and may be sent to the job site for pre-wiring of the opening. When the switch is installed, its connector simply plugs into the already-wired, field receptacle.
- **Tamper-resistant screws** are used for exposed locations.
 - **Handed** – Specify either left hand (LH), for left-hand and right-hand-reverse doors; or right hand (RH), for right-hand and left-hand-reverse doors.
 - **Supplied with mounting screws**, wiring diagram, template information and installation/operation instructions.

For more information, please call 210.533.1231.





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Specifications

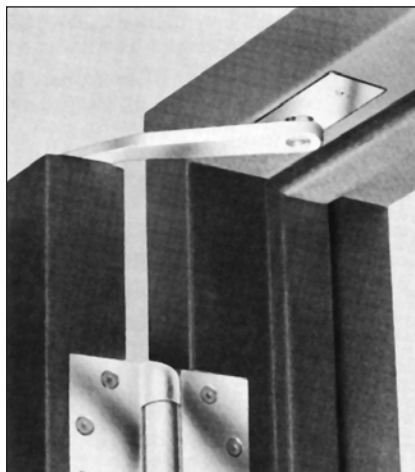
- Switch-body case – 1/2" thick, zinc plated cold-rolled steel with a 1/16" thick steel black zinc faceplate.
- Connecting arm – 5/16" thick stainless steel.
- Maximum allowable butt size – 4-1/2" open width.
- Maximum door swing – 180°.

Electrical Characteristics

- Switch type and ratings – UL listed, single-pole, double-throw type (SPDT); rated for 10 amps @ 125 or 250 VAC.
- Color-coded wire leads – 16" long.

Mounting Location

The unique, self-concealing slide and track mortise into the top edge of the door, while the switch body mortises into the header of a standard, 2" high door frame (see inset below).



Model 523 concealed, door-position switch shown installed on a hollow-metal door frame, with the door in its fully-open position.

How to Order

Specify:

- 1) Model number.
- 2) Handing.

