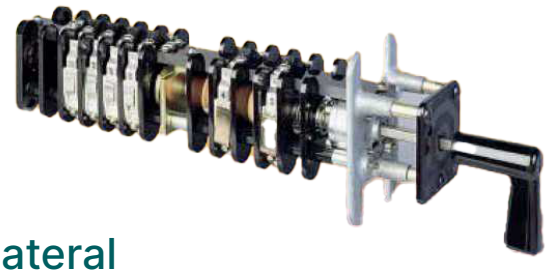
Grid Solutions

MODEL SB-10



Control & Transfer Switches - Rotary/Lateral Switches for Circuit Breaker Control, Motor Control or Instrument Transfer

Applications

- Control of electrically-operated circuit breakers, valves, motors, etc.
- Transfer current and potential to instruments and relays
- Lateral action eliminates second separate switch

Features and Benefits

- 2 electrically separate & mechanically independent switches in one device
- Standard mounts on panels up to 3/16" (up to 2" available)
- Up to 12 stages (24 contacts) of rotary contacts (includes lateral and rotary)
- Up to 4 stages (8 contacts) of lateral contacts (in-out action)
- Lateral action interlock with rotary position available
- Tandem mechanisms available
- Yale lock above handle available
- Silver to silver positive wiping action contacts
- Rated 600 V, 20 A continuous (250 A for 3 sec)
- Palladium contacts for low level instrument circuits available
- Up to 12 rotary positions, 360° rotation
- 3 types of escutcheons (switch face plates)
- 7 types of fixed handles
- Maintained or spring return switch action
- NEMA 1 cover
- UL Recognized

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Applications

The SB-10 switch provides two electrically separate and mechanically independent switches in one device. It utilizes both lateral and rotary contacts all constructed on the same switch. SB-10 switches are used to control electrically operated circuit breakers, small motors, magnetic switches, etc., and to transfer meter, instrument, and relay circuits. In applications such as motor control, the lateral contacts are used to eliminate the need for a separate “Start-Stop” pushbutton station.

Construction

The SB-10 switch is similar to the SB-1 switch except for the addition of lateral contacts. A maximum of four stages of lateral contacts is available on each switch, but the maximum number of stages on the SB-10 switch, including the rotary contacts, is 12. The lateral contacts are located at the handle end of the switch, and they operate independently of the rotary contacts. There are only two lateral positions - in or out. Contacts may be closed in either position, and the contacts on the same stage open or close together. A spring can be furnished so that one of the positions is spring return. Operations of the SB-10 switch are listed in the table below. The rotary stages have the same construction and operation as the SB-1 switch. When a switch is furnished with both lateral and rotary spring return, the lateral spring can be loaded in the 12 o’clock rotary position only. The rotary operation is restricted to spring return to the 12 o’clock position also.

Operations of SB-10 Switches Lateral Operation

One Lateral Stage

Pull-to-open contacts 1-2 .... Maintaining or spring return in or out
Pull-to-close contacts 1-2 .... Maintaining or spring return in or out

Two Lateral Stages

Pull-to-open contacts 1-4 .... Maintaining or spring return in or out
Pull-to-close contacts 1-4 ... Maintaining or spring return in or out
Pull-to-open contacts 1-2 .....
and close 3-4..... Maintaining or spring return in or out

Three Lateral Stages

Pull-to-open contacts 1-6.....Maintaining or spring return in
Pull-to-close contacts 1-6.....Maintaining or spring return out
Pull-to-open contacts 1-4.....
and close 5-6 .....Maintaining or spring return in or out
Pull-to-open contacts 1-2.....
and close 3-6 .....Maintaining or spring return in or out

Four lateral Stages

Pull-to-open contacts 1-8 ..... Maintaining or spring return in
Pull-to-close contacts 1-8 ..... Maintaining or spring return out
Pull-to-open contacts 1-6 .....
and close 7-8 ..... Maintaining or spring return in
Pull-to-open contacts 1-2 .....
and close 3-8 ..... Maintaining or spring return out
Pull-to-open contacts 1-4 .....
and close 5-8 ..... Maintaining or spring return in or out

NOTE:

Pull-to-open denotes the same contact action as push-to-close.
Pull-to-close denotes the same contact action as push-to-open.

NOTE:

Limitation for lateral contacts:
Three stages will not work in pull-to-close 1-6.
Four stages will not work in push-to-close 1-8.
Four stages will not work in push-to-close 1-6.
Four stages will not work in pull-to-close 1-2.
Four stages will not work in pull-to-close 1-8.
Four stages will not work in pull-to-close 3-8.
Rotary Operation
Same as SB-1 Switch. For typical contact diagrams, refer to GET-6169.

For more information, visit
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