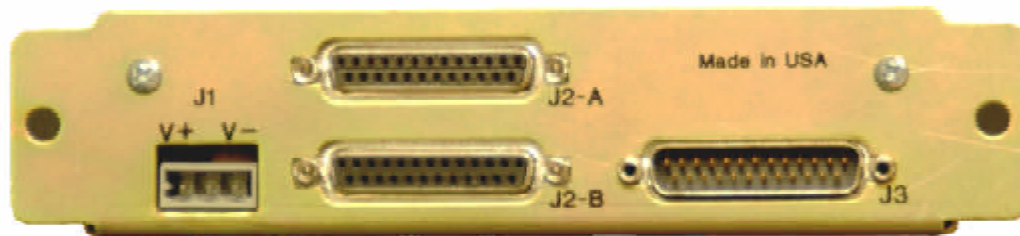


A/B SELECTOR SWITCH

53442



Front View



Rear View

Safetran's AB Selector Switch, (53442) is a general purpose device used to provide RS-232 redundant switching for field applications. A typical application would be to attach the A/B Selector Switch to a Safetran BCM to provide redundant communication with office equipment such as Safetran's WCC/FPDs.

FEATURES OF THE A/B SELECTOR SWITCH INCLUDE:

- Indicator LED's display active port and line activity
- Allows the user to lock unit to Port A or Port B
- Uses standard RS-232 cable to receive commands and to report active port status
- 12 VDC operation
- Rated for industrial temperature operating range

OPERATION

The A/B Selector Switch allows a control unit such as a Safetran BCM to switch between two other units such as Safetran WCC/FPDs located in a dispatch center. If the BCM determines that the primary communication link is not operational then it can command the A/B Selector Switch to switch to the other port and establish a secondary link to the dispatch center.

The A/B Selector Switch and the control unit (i.e. BCM) communicate using the RTS and CTS lines. The control unit sends a 20 microsecond pulse on the RTS line to command the A/B Selector Switch to switch to the other port. The control unit sends a 10 microsecond pulse on the RTS line to determine the active port. The A/B Selector Switch changes the level of the CTS line for 25 milliseconds to report which port is active.

The A/B Selector Switch utilizes magnetically latched relays. In the unlikely event that the A/B Selector Switch should lose power, the relays will remain latched in the current state and the active port will continue to operate without interruption. Once the relays are latched in the failed state, a swithcover is not possible until power is restored.

A front panel, three-position switch permits users to force a hard switchover to the A or B position. The A/B Selector Switch will not switch ports if commanded to by a control unit when the switch is in the A or B position.

The A/B Selector Switch Passes the Following RS-232 Signals:

2 – TX Data	7 – Signal Ground
3 – RX Data	15 – RX Clock
4 – RTS	17 – RX Clock
5 – CTS	24 – TX Clock

SPECIFICATIONS

Input Power:	9-36 VDC (12 VDC nominal)
Baud Rate:	up to 64K
Environmental:	
Temperature:	-40° F to +160° F (-40° C to + 71° C)
Humidity:	95%, noncondensing
Dimensions:	7.52 inches (19.10 centimeters) high 1.71 inches (4.34 centimeters) wide 4.50 inches (11.43 centimeters) deep
Weight:	1.95 pounds (0.88 kilograms) (approximate)

ORDERING INFORMATION

To order: Specify part number 9000-53442-0001

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