

## CATALOG BULLETIN

# **GENERAL APPLICATION**

The Southern States type AVS-1 auxiliary switch is utilized to provide positive indication of the position (open or closed) of a switching device by monitoring the rotation of the operating pipe of a switching device. Most commonly used for remote monitoring of line and ground switches or as part of a safety interlock scheme, the AVS-1 features simple, linear circuitry, and easy adjustment. A removable, aluminum cover provides excellent access to the auxiliary contacts during setup and adjustment. The AVS-1 can be applied to any manufacturer's switch with 180 degree or less vertical rotation.

Also available is the Type AV-1 Auxiliary switch. The AV-1 shares all the features of the type AVS-1, but operates off the vertical pipe directly through gear segments for special applications.

The AV-1 and AVS-1 are available with up to 18 adjustable contacts. For additional contacts, a second unit is required.

# MAIN FEATURES & BENEFITS

- Easily accessible and infinitely adjustable cams (field adjustments are quickly made with a Bristol spline wrench supplied with each unit).
- Visible make and break points that eliminate the need for a test lamp. Current flow is straight through the switch, and circuits are easily traced.
- High dielectric strengths that exceed U.L. requirements for 600 volt equipment.
- Long leakage paths that greatly reduce the possibility of false indications or malfunctions of auxiliary devices.
- Double break action that allows higher interrupting capacities for greater flexibility of application.
- Easy mounting. The AVS-1 mounts to a structure bracket with only two bolts, and the crank arm of the unit is attached to the vertical operating pipe by a simple, easily-installed linkage.
- Customer may specify 2, 4, 6, 8,10, 12, 14, 16, or 18 poles to fit individual needs.
- The type AVS-1 is constructed primarily of cast aluminum for maintenance-free durability.

# Type AV-1 & AVS-1 Auxiliary Switches









AV-1 & AVS-1

AVS-1 OPERATING ASSEMBLY

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#### ARM LENGTH SELECTION

The table to the right is to be used for selecting the correct arm lengths for any angle of rotation of the vertical pipe between 70° to 160° when the mounting arrangement is as shown:

ANGLE OF ROTATION	HOLE LOCATION
70° – 73°	Holes 1 and D
74° – 77°	Holes 2 and D
78° – 83°	Holes 1 and C
84° - 90°	Holes 1 and B
91° – 98°	Holes 2 and B
99° - 100°	Holes 1 and A
101° – 108°	Holes 3 and B
109° – 122°	Holes 3 and A
123° – 139°	Holes 5 and C
140° – 145°	Holes 4 and A
146° – 160°	Holes 5 and B

# > Disconnect Switches >SWITCH ACCESSORIES

or line switch

CW to open

For line switch

CCW to open

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#### **OPERATING SEQUENCE**

- 1. Place line switch in fully-closed position.
- 2. Refer to your drawing to install the operating arm assembly.



FIG 5

1

3

5

0

9

11

13

15

17

AVS-1-10

g٠

-p

2

4

#### STANDARD CONFIGURATIONS





FIG 3



FIG 4



#### CONTACT RATINGS

VOLTAGE	INTERRUPTING	LOAD
120 VAC	20 A*	Inductive
208 - 240 VAC	50 A	Resistive
24 VDC/48 VDC	50 A	Resistive
48 VDC	20 A*	Inductive
125 VDC	2 A*	Inductive

- \* Based on R.R 764-3
- Contacts RATED 30 A continous.
- Dielectric rating exceeds U.L requirements for 60 volt equipment.



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#### **OPTIONAL ACCESSORIES**

- Heater
- Thermostat