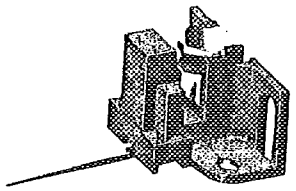
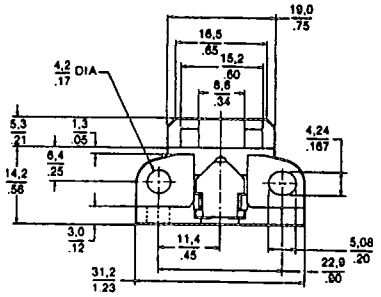
AV Vane operated position sensors



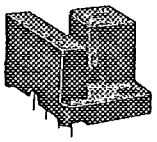
1AV

TYPICAL DIMENSIONS



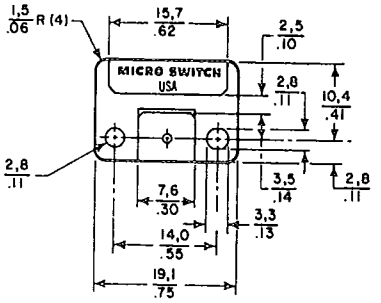
FEATURES

- *Hall effect sensor*
- *Single digital output . . . current sinking or sourcing*
- *Versatile mounting*
- *3 pin solder/quick-connect terminals or leadwires*
- *6 to 24 VDC power supply*
- *Lower operating force*
- *UL Recognized housing and leadwires*



3AV/4AV

TYPICAL DIMENSIONS



FEATURES

- *Hall effect sensor*
- *Dual digital outputs . . . current sinking*
- *Small size*
- *4 pin in-line printed circuit board terminals or leadwires*
- *Closely controlled differential to predict pulse width*
- *4.5 to 5.5 VDC or 6 to 24 VDC power supply*
- *Connector block available*

PRINCIPLE OF OPERATION

AV vane sensors are operated by passing a ferrous vane through the gap between the Hall sensor and the magnet, shunting the magnetic flux away from the sensor.* AV's can be used as limit switches by operating with a large vane; as tachometer sensors by using a toothed wheel; or, as machinery synchronizing elements by using cams or sectors. 1AV and 3AV/4AV Series have many featues in common, such as:

*See Catalog 20 for vane actuation information.

- *Operation by a low cost, easy to fabricate ferrous vane*
- *Magnet and sensor incorporated in same rugged package*
- *Sealed construction . . . unaffected by dust or dirt*
- *0 to 100 kHz operating speed . . . no minimum speed of operation*
- *On and Off times programmable by vane dimensioning*
- *Precision mechanical operating characteristics*

For more information, see Catalog 20, Solid State sensors.

AV ORDER GUIDE

Supply Voltage (VDC)	Supply Current (mA max.)	Type	Current per Output	Operating Temperature °C	Termination	Catalog Listing	
						w/o Conn.	w/Conn.
4.5 to 5.5	7.0	Sink	4 mA	– 40 TO 85	PC board	**3AV1C**	—
			8 mA		Leadwires	**3AV2C**	—
			4 mA	– 40 to 125	PC board	**4AV11C**	**4AV11C-T1**
			8 mA		Leadwires	**4AV12C**	—
6 to 24	13.0		10 mA	– 40 to 85	PC board	**3AV1A**	—
			20 mA		Leadwires	**3AV2A**	—
			10 mA	– 40 to 125	PC board	**4AV11A**	**4AV11A-T1**
			20 mA		Leadwires	**4AV12A**	—
		Source			Leadwires	**1AV2B**	—
					Solder/Q.C.	**1AV3B**	—
		Sink			Leadwires	**1AV2A**	—
					Solder/Q.C.	**1AV3A**	—