

Air-Wave Switches

AW-10, 12 and 14 are MillerEdge air wave switch systems. Each system consists of an air pressure wave which is led, via a hose or pipe, to a diaphragm contact. This contact converts the positive or

negative pressure wave respectively into an electrical contact and pulse. The contact is of short duration, due to the fact that the overpressure escapes through a valve opening.



Model: AW-10

FEATURES

- Works on doors up to 60' in length
- Normally Open or Normally Closed Operation
- Adjustable Sensitivity
- Release valve for pressure and temperature compensation.
- Simple Installation
- Durable - Water Tight availability
- Can be used with standard pneumatic hose & MillerEdge extrusion.

APPLICATIONS

For use as entrapment protection on machinery, doors and gates.

- Rolling Doors
- Sectional Doors
- For retro-fit on fast-acting doors
- Areas with a water penetration factor, e.g. car washes
- Mass Transit



Model: AW-12

GENERAL SPECIFICATIONS FOR AW-10, 12, & 14

Max. Contact Load: .5A/220VAC; 1A/48VDC

Max. Switch Freq: 25/second

Max. Pneumatic Load: 2,000mm (78.7") water column

Sensitivity: 2mm to 500mm (.078" to 19.7") water column

Ambient Temp. Range: -45°C to +82°C (-49°F to +180°F)

Electrical Configuration: 2-wire, N.O. (Optional N.C.)

Terminal Configuration: .187" Q.C. Tabs

Diaphragm: Silicone

Contact Material: Silver Plated

Mechanical Life: Min 2 million operations

Electrical Life: 1 million operations, dependent on contact load



Model: AW-14

AW-12 Switch in NEMA 4x Enclosure

NEMA Rating: 4x

Enclosure Material: Polystyrene

Tubing: Silicone, 1 Ft. x 3/32" I.D.

Pneumatic Connection: Barbed Coupler 3/32" I.D.

AW-14 Switch in molded Enclosure

Enclosure Material: ABS

Tubing: Silicone, 1 Ft. x 3/32" I.D.

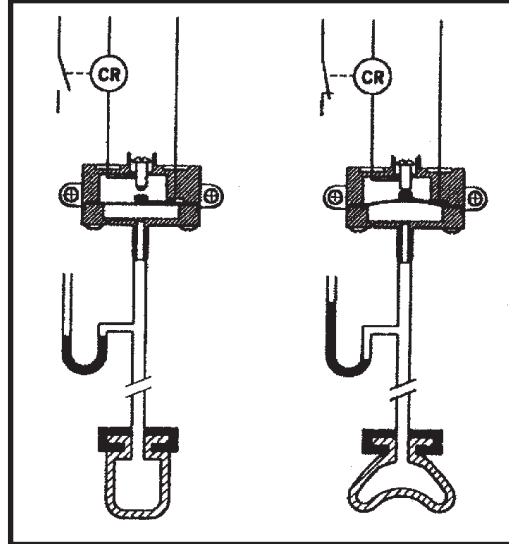
Pneumatic Connection: Barbed Coupler 3/32" I.D.

US Patents: #4,905,483 #6,040,536

Air-Wave Switch



GENERAL DATA			
	AW10	AW12	AW14
Height:	1.25" 32mm	2.25" 57mm	1.70" 43mm
Width:	1.20" 30mm	2.55" 65mm	1.95" 49mm
Length:	1.73" 44mm	4.25" 108mm	3.29" 83mm
Weight:	.5 oz. 14grams	4.5 oz. 127 grams	4.5 oz. 127 grams



Functional Principle of the MillerEdge Air-Wave Switch

Sensitivity Settings and Adjustments:

The AW-10, 12, and 14 air-wave switches are designed with the capability to adjust the sensitivity to fit your design needs.

Normally Open Contact: *To increase sensitivity*
turn setting screw clockwise.

Normally Closed Contact: *To increase sensitivity*
turn setting screw counter-clockwise.

Air-Wave Edge Kits

Model #	Hose Dia.	Hose Length	Coil Cord
AW-12	1/2"	12Ft.	w/ or w/o
	1/2"	18Ft.	w/ or w/o
	1/2"	24Ft.	w/ or w/o
	3/4"	12Ft.	w/ or w/o
	3/4"	18Ft.	w/ or w/o
	3/4"	24Ft.	w/ or w/o
AW-14	1/2"	12Ft.	w/ or w/o
	1/2"	18Ft.	w/ or w/o
	1/2"	24Ft.	w/ or w/o
	3/4"	12Ft.	w/ or w/o
	3/4"	18Ft.	w/ or w/o
	3/4"	24Ft.	w/ or w/o



Air-Wave Kit featuring an AW-12 Switch and components (optional coil cord not shown)