

Air-Wave Switches

Applications

- **Commercial Sectional Doors**
- **Rolling Doors**
- **Mass Transit**

About the Air-Wave Switches...

AW-10, 12 and 14 are Miller Edge 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.

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 and Miller Edge extrusion.

TECHNICAL SPECIFICATIONS:

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



AW-10 Air-Wave Switch



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

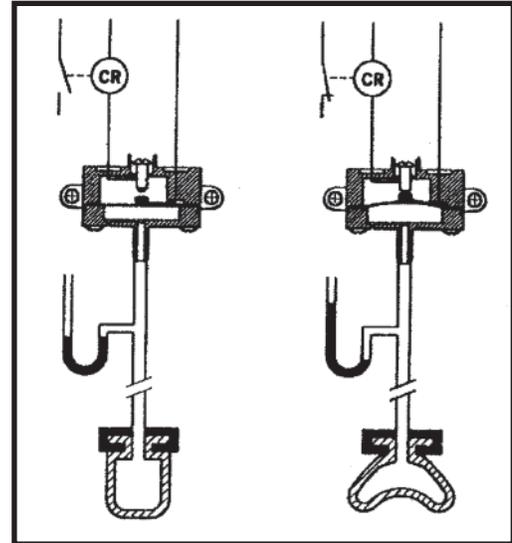
Enclosure Material: ABS
Tubing: Silicone, 1 Ft. x 3/32" I.D.
Pneumatic Connection: Barbed Coupler 3/32" I.D.



Model # AW10, AW12, AW14

Air-Wave Switches

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



U.S. patent #4,398,814 Canadian patent #1,048,066 other patents apply in U.S. and abroad

AW-10-12-14_Spec_20130325

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