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Fan & Filter Fan Air-flow Monitor

- *Reliable mechanical switch contact*
- *Small size*
- *Easily installs via clip or clamp*
- *Versatile fields of application*

The E-AFM air-flow monitor provides a simple but reliable alternative to indicate positive or negative air flow of fans. When properly installed and connected in series with an optical (i.e. LED) or audible signaling device, a bi-directional switch will activate an electrical contact if the air flow of the fan stops, thus either turning the signaling device on or off.



Technical Data

Contact Type	Reed / Magnetic Contact
Switch Contact	Switch contact closed when there is sufficient air flow
Maximum Switching	60VDC
Maximum Switching	170mA DC
Maximum Switching	10W (resistive load)
Switching Air Flow	>2.5M/Sec (8.2 Ft/Sec or 492 Ft/Min)
Maximum Air Flow	50M/Sec (164 Ft/Sec or 9840 Ft/Min)
Connection	2 X AWG26 stranded wire, 500mm (19.5 in.) long with 5mm (0.25in.) stripped and tinned.
Case	Black plastic, UL 94-HB
Dimensions	34 X 17.5 X 7.5 mm (1.3 X 0.7 X 0.3 in.)
Operating Temperature	-20° to 60°C (-4° to 140°F)
Humidity	10 to 70% R.H (non-condensing)
Storage Temperature	-20° to 80°C (-4° to 176° F)
Service Life	> 100,000 Cycles
Mounting	Attachment Clip or Clamp

Application: The air-flow monitor can be used in combination with optical or audible signaling devices (such as LED's or alarms), or remote monitoring devices. It should be connected:

- A) in series directly with the signaling device itself, if the power of the connected device does not exceed the electrical ratings of the E-AFM as listed, or
- B) to the pilot switch side of a relay, if the signaling device to be switched exceeds the electrical ratings of the E-AFM and needs to be switched via relay. In this case, a properly sized relay should be specified by the customer for the specific application/device.

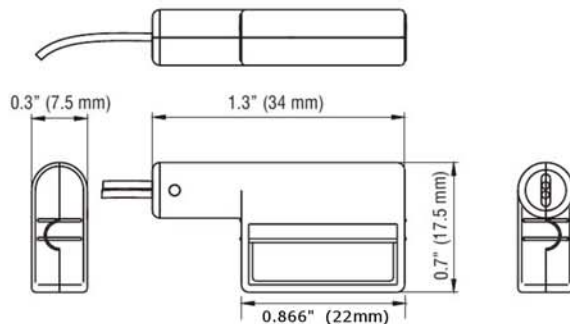
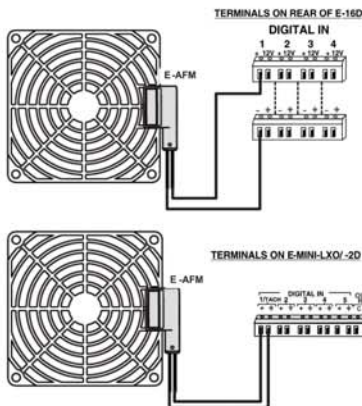
Installation notes:

To avoid possible interference problems, a suitable distance from the following must be guaranteed, preferably through prior testing:

- magnets (permanent magnets) and ferrous metals (e.g. sheet metal)
- electromagnetic fields and inductive loads (e.g. caused by transformers, motors, etc.)

The air-flow monitor must be positioned directly in the air flow in a dust-free and contamination-free environment. Avoid installing in areas where air pockets or turbulence can be expected.

Protective Grill	Dimensions	Weight (approx.)	Flap Position		Contact		Description	Recommended use
			No Airflow	w/ Airflow	No Airflow	w/ Airflow		
no	1.3 x 0.7 x 0.3" (34x17.5x7.5 mm)	0.2 oz.					NO - normally open Contact closes when air flow begins	Use to turn a signaling device ON to indicate air flow



Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.