



Photo enlarged

## 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:**

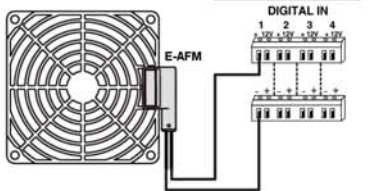
To avoid possible interference problems, a suitable distance from the following must be guaranteed, preferably through prior testing:

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

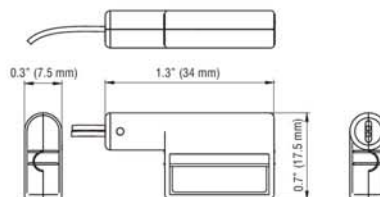
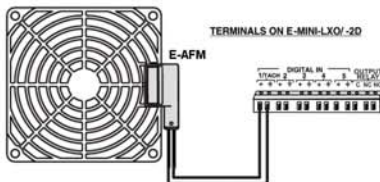
The air-flow monitor must be positioned directly in the air flow in a dust-free and contamination-free environment. Avoid installing in areas where air pockets or turbulence can be expected.

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.					<b>NO - normally open</b> Contact closes when air flow begins	Use to turn a signaling device ON to indicate air flow

TERMINALS ON REAR OF E-16D



TERMINALS ON E-MINI-LXQ/-2D



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.