

NTI P/N: ENVIROMUX-AFM



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 ENVIROMUX-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 50°C (-4° to 122°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 ENVIROMUX-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 ENVIROMUX-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:

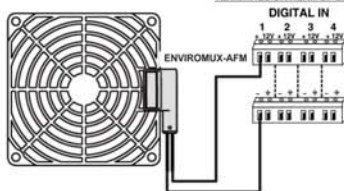
To avoid possible interference problems, a suitable distance from the following must be guaranteed, preferably through prior testing:

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

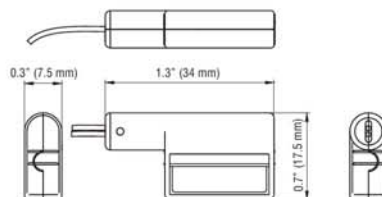
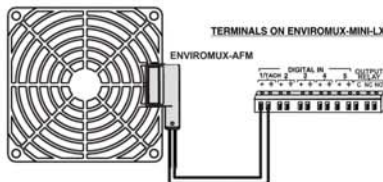
The air-flow monitor must be positioned directly in the air flow in a dust-free and contamination-free environment. Avoid installing in areas where air pockets or turbulence can be expected.

| 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 |

TERMINALS ON REAR OF ENVIROMUX-16D



TERMINALS ON ENVIROMUX-MINI-LXOI-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.