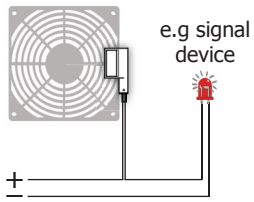
chanhvinh.com

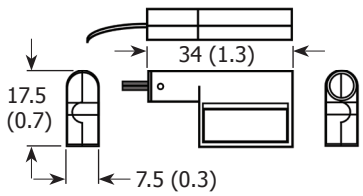
AFM Series — Air Flow Monitor



Dimensions: mm (inch)

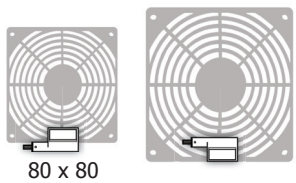
Wiring Example





Air-flow monitor integrated in a protective plastic grill

92 x 92 / 120 x 120
(3.62 x 3.62 / 4.72 x 4.72)



80 x 80
(3.15 x 3.15)

The air-flow monitor provides a simple alternative to indicate positive or negative air flow of fans or blowers. 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 falls below 8.2 ft/s, turning the signaling device on or off. The AFM monitor can also be attached to an existing plastic grill or guard.

Specifications

Contact Type: Reed/magnet contact
NC (Normally Closed): Contact open with air flow
NO (Normally Open): Contact closed with air flow
Switching Threshold of Air Flow Speed: >8.2 ft/s (2.5 m/s)
Hysteresis: 3.3 ft/s (1m/s) - fixed
Contact Resistance Incl. Wire: 370m (1214")
Service Life: >100,000 cycles
Maximum Switching Capacity: 10W (resistive load)
Maximum Switching Voltage: NC - AC/DC 240V
NO - DC 60V
Maximum Switching Current: NC - DC 500mA
NO - DC 170mA

Connection: 2 x single strand AWG26, length 500mm (20"), tip of stranded wire stripped/tinned 5mm (0/20")
NC version (black wires), NO version (blue wires)
Mounting: Attachment clamp and/or clip, or integrated in protective plastic grill
Mounting Position: Air-flow monitoring opening perpendicular to air flow
Operating Temperature: -20 to 50°C (-4 to 122°F)
Storage Temperature: -20 to 80°C (-4 to 176°F)
Housing: Plastic, UL 94HB, black
Dimensions: 34 x 17.5 x 7.5mm (1.3 x 0.7 x 0.3")
Protection Type: NEMA 1 (IP 20)
Agency Approvals: CE
RoHS Compliant

Model No.	Description	Weight
AFM-01NC	Air-flow switch, NC with mounting clip and clamp (for attaching to existing fan assembly)	6 g (0.2 oz)
AFM-01NO	Air-flow monitor, NO with mounting clip and clamp (for attaching to existing fan assembly)	6 g (0.2 oz)
AFM-80NC	Air-flow monitor, NC with 80 x 80mm (3.15") plastic finger guard	20 g (0.7 oz)
AFM-80NO	Air-flow monitor, NO with 80 x 80mm (3.15") plastic finger guard	20 g (0.7 oz)
AFM-92NC	Air-flow monitor, NC with 92 x 92mm (3.62") plastic finger guard	20 g (0.7 oz)
AFM-92NO	Air-flow monitor, NO with 92 x 92mm (3.62") plastic finger guard	20 g (0.7 oz)
AFM-120NC	Air-flow monitor, NC with 120 x 120mm (4.27") plastic finger guard	31 g (1.1 oz)
AFM-120NO	Air-flow monitor, NO with 120 x 120mm (4.27") plastic finger guard	31 g (1.1 oz)

AFM-KIT	Kit includes air-flow switch (AFM-01NC), clip, three plastic guards (80, 92 and 120mm), LED and holder, buzzer, switch and wall-mount power supply. Delivered with a complete 10-foot wire assembly.	

Orion Fans
10557 Metric Drive
Dallas, TX 75243
800.323.2439

A division of Knight Electronics, information and data are subject to change without prior notification.