

## Flow Switches – Air

### Series AF1 Air Flow Switches

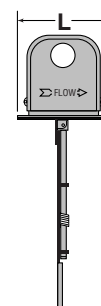
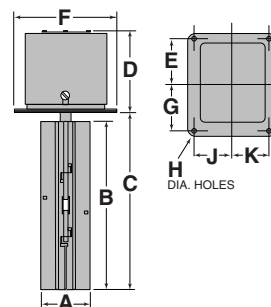
- For general purpose applications with medium and high velocity requirements
- Paddle fits 8" (203mm) minimum duct size, or 6" (152mm) if trimmed
- Brass, steel and aluminum construction
- Single pole, double throw snap switch
- Sensitivity adjusting screw makes flow adjustment easy
- Two electrical knock-outs allow connection from either end
- Can be equipped with a time delay relay
- Optional features
  - Stainless steel
  - Anti-corrosion treatment
- Minimum ambient temperature 32°F (0°C)
- Maximum duct temperature 300°F (149°C)



(for specified models)



Series AF1



### Ordering Information

| Model Number | Part Number | Description                | Weight lbs. (kg) |
|--------------|-------------|----------------------------|------------------|
| AF1          | 122800      | Air flow switch            | 2.0 (.9)         |
| AF1-S        | 123000      | AF1 w/SS paddle            | 2.0 (.9)         |
| AF1-J        | 122920      | AF1 w/corrosion coating    | 2.5 (1.1)        |
| AF1-J-E      | 122921      | AF1-J-CE conformance rated | 2.5 (1.1)        |

See page 120 for CE Conformance information

### Dimensions, in. (mm)

| A                        | B                      | C                        | D                        | E                        | F                     |
|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| 2 $\frac{1}{8}$ (54)     | 7 $\frac{5}{16}$ (186) | 7 $\frac{23}{32}$ (196)  | 3 $\frac{7}{16}$ (16)    | 1 $\frac{29}{32}$ (48.4) | 4 $\frac{3}{8}$ (111) |
| G                        | H                      | J                        | K                        | L                        |                       |
| 1 $\frac{29}{32}$ (48.4) | $\frac{9}{32}$ (4.2)   | 1 $\frac{19}{32}$ (40.5) | 1 $\frac{19}{32}$ (40.5) | 3 $\frac{13}{16}$ (48.4) |                       |

### Electrical Ratings

| Voltage | Motor Switch Rating (Amperes) |              | Pilot Duty                                     |
|---------|-------------------------------|--------------|------------------------------------------------|
|         | Full Load                     | Locked Rotor |                                                |
| 120 VAC | 7.4                           | 44.4         | 125 VA at<br>120 or 240 VAC<br>50 or 60 cycles |
| 240 VAC | 3.7                           | 22.2         |                                                |

### Flow Rates – feet per minute (meters per minute)

#### Horizontal Duct (Recommended Installation)

| Paddle Length                                  | Settings           | Mode of Operation |                   |
|------------------------------------------------|--------------------|-------------------|-------------------|
|                                                |                    | Flow fpm (mpm)    | No Flow fpm (mpm) |
| Standard<br>7 $\frac{1}{4}$ " (184mm)          | Factory or Minimum | 480 (146)         | 185 (56)          |
|                                                | Maximum            | 1385 (422)        | 1160 (354)        |
| Trimmed 2" (51mm)<br>5 $\frac{1}{4}$ " (133mm) | Factory or Minimum | 700 (213)         | 220 (67)          |
|                                                | Maximum            | 2230 (680)        | 1820 (555)        |

Based on Standard Air 0.075 pounds per Cubic Foot (1.205 kg/m<sup>3</sup>)  
Values are  $\pm$  10%

#### Vertical Duct (Upward Flow)

| Paddle Length                                  | Settings           | Mode of Operation |                   |
|------------------------------------------------|--------------------|-------------------|-------------------|
|                                                |                    | Flow fpm (mpm)    | No Flow fpm (mpm) |
| Standard<br>7 $\frac{1}{4}$ " (184mm)          | Factory or Minimum | 910 (277)         | 785 (239)         |
|                                                | Maximum            | 1610 (491)        | 1460 (445)        |
| Trimmed 2" (51mm)<br>5 $\frac{1}{4}$ " (133mm) | Factory or Minimum | 1235 (376)        | 1050 (320)        |
|                                                | Maximum            | 2560 (780)        | 2410 (735)        |

Based on Standard Air 0.075 pounds per Cubic Foot (1.205 kg/m<sup>3</sup>)  
Values are  $\pm$  10%