DIFFERENTIAL PRESSURE SWITCH

AFS Series

The AFS series air differential pressure switch is a general-purpose airflow proving switch designed for HVAC and Energy Management applications. It may be used to sense positive, negative, or differential air pressure.

PRODUCT HIGHLIGHTS

* 3 range models available
* housing contains a diaphragm, a calibration spring and a snap-acting SPDT switch
* sample connections located on each side of the diaphragm accept 6.35mm(0.25″) OD tubing via the integral compression ferrule and nut or barbed fitting Ranges up to 20” W/2000 Pa
* enclosure cover guards against accidental contact with the live switch terminal screws and the set point adjusting screw
* enclosure cover will accept a 12.7 mm (0.5″) conduit connection
* plated housing
* manual resets available

solid, reliable mounting

SPECIFICATIONS

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| Model | AFS-222/AFS-222-112 | AFS-262/AFS-262-112 | AFS-460/AFS-460-112 |
| SAMPLE MEDIA | Air | | |
| MOUNTING POSITION | Diaphragm in any vertical plane | | |
| SET POINT RANGE | 0.05 ± 0.02” W.C. to 12.0” W.C. | 0.05 ± 0.02” W.C. to 12.0”  W.C. | 0.40 ± 0.06” W.C. to  12.0” W.C. |
| FIELD ADJUSTABLE  OPERATE RANGE | 0.07” W.C. to 12.0” W.C. | 0.07” W.C. to 2.0” W.C. | 0.46” W.C. to 12.0” W.C. |
| FIELD ADJUSTABLE RELEASE RANGE | 0.04” W.C. to 11.2” W.C. | 0.04” W.C. to 1.9” W.C. |  |
| SWITCH DIFFERENTIAL | Progressive, increasing from approx. 0.02 ± 0.01” W.C. at minimum set point, to approx. 0.8” at maximum set point | Progressive, increasing  from approx. 0.02 ± 0.01”  W.C. at minimum set  point, to approx. 0.1” W.C.  at maximum set point | Progressive, increasing  from approx. 0.06 ±  0.01” W.C. at minimum  set point, to approx.  0.8” W.C. at maximum  set point |
| MAXIMUM PRESSURE | 0.5 PSI (0.03 BAR) | | |
| OPERATING TEMP RANGE | -40 to 82°C (-40 to 180°F) | | |
| LIFE | 100,000 cycles at 0.5 PSI max pressure each cycle and at max electrical load | 100,000 cycles at 0.5 PSI max pressure each cycle and at max electrical load | 6000 cycles at 0.5 PSI max pressure each cycle and at max electrical load |
| ELECTRICAL RATING | 300 va pilot duty at 115 - 277 Vac, 10 amp, non-inductive, 277 Vac, 60Hz | | |
| CONTACT ARRANGEMENT | SPDT | SPDT | SPDT-NC |
| ELECTRICAL CONNECTIONS | Screw top terminals with cup washers | | |
| SAMPLE LINE CONNECTIONS | Ferrule and nut compression type connectors that accept 6.35mm (0.25”) OD rigid tubing or 1/4” OD  barbed connections (-112) that accept flexible tubing | | Ferrule and nut  compression type  connectors that accept  6.35mm (0.25”) OD rigid tubing |
| AUTOMATIC/MANUAL  RESET | Automatic | Automatic | Manual |
| APPROVALS | UL, FM, CSA | | UL, CSA, CE |