

KAL-L - Thermal Air Flow Switch



Benefits and Features

- Negligible Pressure Loss
- No Moving Parts
- Adjustable Response Time
- Temperature Compensated
- Easy to Install

General Description

The KAL-L flow switch allows rapid detection of flow rate change of non-hazardous gases. Fast reaction times are guaranteed by the KAL-L's analog electronic design. Through use of two RTDs, . . . one to sense flow and the other to detect ambient temperature, the switch can compensate for thermal changes in its surroundings. This "smart" behavior minimizes erroneous switching due to spurious changes caused by things such as the weather. Any conceivable pipe size can be accommodated by the KAL-L's insertion style design. Knowledge of the flow velocity in your system is all that you need to make the KAL-L work.

Specifications

Range: 3.3 - 66 ft/sec @20°C, 14.5 PSIA (restricted span for other pressure and temperature conditions)

Switchpoint: potentiometer adjustable

Accuracy: ±10% of flow rate

Reproducibility: ±1% of flow rate

Display

Flow Rate: 8-LED flow trend

Switch Status: two-color LED

Maximum Temperature Gradient: 30°K(°C)/min @ 8m/s, 90°C

Response Time: 1 to 60 sec (adjustable)

Warm-up Time: 30 sec

Maximum Pressure: 120 PSIG

Maximum Temperature

Process: -10°F to +250°F

Ambient: +15°F to +140°F

Wetted Parts: Ni-plated brass

Housing Material: Nylon

Electrical Data

Power Supply: 24 VDC/VAC -15%/+10%

Switch: Qty. 1 - SPDT

Max. Voltage: 250 VAC

Max. Current: 4 A

Max. Power: 1,000 VA

Wiring Connector

Standard: PG13.5 cable gland

Optional: 1/2" NPT conduit

Protection: NEMA 4

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Ordering Information

Fitting	Order Number
1/2" NPT	KAL-8115
2-Bolt Flange	KAL-8115FL
Smooth Shank	KAL-8100
Options:	-C: Conduit Hub -M12: Quick disconnect

Dimensions

Dimensions (millimeter)

