

Thermal Air Flow Switch



measuring
•
monitoring
•
analyzing

KAL-L



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



KOBOLD companies worldwide:

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Thermal Air Flow Switch Model KAL-L

Description

The KOBOLD KAL-L flow switch allows rapid detection of flow rate changes in non-hazardous gases. Fast reaction times are guaranteed by the electronic design. Through use of two RTD's, 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 changes caused by things such as the weather. Almost any conceivable pipe size can be accommodated by the insertion style design. Knowledge of the flow velocity in your system is all that is needed to make the KAL-L work. Typical application areas include: air conditioning systems, ventilation systems, and other non-hazardous gas flow monitoring systems.

Specifications

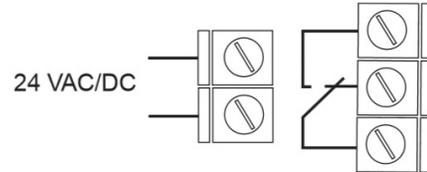
Power Supply:	24 VAC/VDC - 15%, +10%
Max. Power:	4 VA
Ambient Temperature:	14...140 °F
Media Temperature:	-10...250 °F
Max. Pressure:	120 PSIG
Max. Warm-up Time:	30 seconds
Switching Range:	3.3...66 ft/sec at 20 °C, 14.5 PSIG (Restricted Span for other Conditions)
Switching Accuracy:	± 10% of Reading
Repeatability:	± 1% of Reading
Temperature Gradient:	30 °K (°C)/min, @ 8m/s, 90 °C
Response Time:	1...60 s, Adjustable
Flow Rate Indication:	8-Digit LED Bargraph
Switch Point Adjustment:	via Potentiometer
Output Indicator:	2-Color LED
Switch Output:	Relay, SPDT
Switch Capacity:	Max. 250 VAC / 1000 VA / 4A (Option M12: Max. 24 VAC/VDC, 3A)
Protection:	IP 65
Housing Material:	Polyamide
Sensor Material:	Ni-plated Brass

Order Details (Example: KAL-8115 M12)

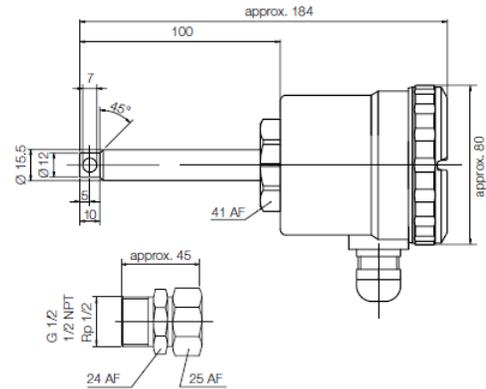
Fitting	Order Number	Options
1/2" NPT	KAL-8115	Suffix "C" 1/2" Conduit Hub
2-Bolt Flange	KAL-8115FL	Suffix "M12" Quick Disconnect w/6' Cable



Electrical Connection



Dimensions (mm)



Flow Range Per Duct Size

Nominal Duct Size	Range Air SCFM
4	344
5	537
6	773
7	1052
8	1374
9	1739
10	2147
12	3092
14	4209
16	5497
18	6957
20	8589
24	12368
28	16835
32	21988
36	27829
40	34357