## CFA100A,B **Airflow Sensors**

The CFA100A, B are high-sensitivity, high-reliability mass flow sensors with a specifically designed semiconductor chip for the sensor unit.

This airflow sensor is a thermal type mass flow sensor, which measures the airflow, without calibrating temperature and pressure



## Specifications

Model No.	CFA100A	CFA100B
Measuring method	Bypass method	Direct method
Range	Differential pressure at both ends of	Airflow volume in sensor:
-	the sensorflow connection port:	0 to 300SCCM {0.018m3/h} (CC/m,
	0 to 98.1Pa	S: Standard condition at 20°C and
		1 atmospheric pressure)
Applicable gas	Air and Nitrogen (not containing corrosive chlorine, sulfur, acid, etc.)	
Response speed	20ms max. (output 0→90% transient response)	
Accuracy	±5.0%FS	±4.0%FS
Repeatability	±1.5%FS	±1.0%FS
Ambient temperature	-20 to +70°C (freezing and condensation are not allowed)	
Ambient humidity	95%RH, 40°C	
Pressure range	Differential pressure between inside and outside of air flow passage:	
	within 2942Pa	
Rated voltage	5.0Vdc	
Current consumption	10mAdc	
Output	0.5 to 3.0Vdc non-linear characteristics	
	CFA100A: $\Delta$ P (Pressure differential)	CFA100B: Q (Flow volume)
	At $\Delta P = 0mmAq$ , 0.50V	At Q = 0SCCM, 0.50V
	At ∆ P = 2mmAq, 1.77V	At Q = 120SCCM, 1.77V
	At $\Lambda P = 10 \text{mmAg}$ , 3.00V	At 0 - 20080 CM 2 00V
		AI Q = 30030000, 3.000
Mounting	Front is to face towards you or downw	vards. (Be sure to protect against the
Mounting	Front is to face towards you or downw entering of water from condensation.)	vards. (Be sure to protect against the
Mounting Connection	Front is to face towards you or downw entering of water from condensation.) Sensor connection tube: 6mm interna	ards. (Be sure to protect against the
Mounting	Front is to face towards you or downw entering of water from condensation.) Sensor connection tube: 6mm interna both upper and down side stream flow	ards. (Be sure to protect against the l dia x 300mm length (total length for v) max.
Mounting Connection Connector	Front is to face towards you or downw entering of water from condensation.) Sensor connection tube: 6mm interna both upper and down side stream flow Part No. <b>1L-S-3PL-SMT</b> from Japan A	A G = 3005CCM, 5.000 vards. (Be sure to protect against the l dia x 300mm length (total length for v) max.
Mounting Connection Connector	Front is to face towards you or downw entering of water from condensation.) Sensor connection tube: 6mm interna both upper and down side stream flow Part No. <b>1L-S-3PL-SMT</b> from Japan A Yamatake Part No. <b>81446515</b> (connec	A G = 3005CCM, 5.000 vards. (Be sure to protect against the l dia x 300mm length (total length for v) max. Aviation Electronics Industry Ltd., or tor set)

## Dimensions

(unit:mm)







## Selection Guide

Model No.	Description
CFA100A	Bypass measuring method
CFA100B	Direct measuring method