

MCS100

Chip Pickup Detection Mass-Flow Sensor

The MCS100 is a mass flow sensor used to detect microcomponent pickup. It uses Yamatake's Micro Flow sensor and can be installed very close to the pickup nozzle. Its fast 5ms response is designed for detection in high-speed pickup applications, and its operation is not affected by fluctuations in suction pressure because of its mass-flow measurement principle.



Specifications

Model No.	MCS100A100	MCS100A104	MCS100A108	MCS100A112
Compatible gases	Air and nitrogen. Gas must be dry and without corrosive components (chlorine, sulfur, acid, etc.). It must also be clean, without dust or oil mist.			
Flow rate range	-3 to +3L/min	0 to 3L/min	-0.5 to +0.5L/min	0 to 0.5L/min
	Volumetric flow adjusted for 20°C, 101.325kPa.			
Operating temperature	0 to 50°C (for both ambient temperature and gas temperature)			
Operating humidity	10 to 80% RH (no condensation allowed)			
Operating pressure range	-100 to +200kPa (range for assured pressure characteristics: -70 to +200kPa)			
Output signal	1-5Vdc			
Response	5ms max. (95% response to a step flow rate change)			
Power	12Vdc, ripple voltage 5% or less			
Current consumption	12mA max.			
Mass	9g			

Selection Guide

Model No.	Description
MCS100A100	-3 to +3L/min flow range
MCS100A104	0 to 3L/min flow range
MCS100A108	-0.5 to +0.5L/min flow range
MCS100A112	0 to 0.5L/min flow range

Accessories (sold separately)

Part No.	Description
81446888-001	Cable with connector

Dimensions

(Unit: mm)

