

Model 4110

High Frequency AC Nozzle Ionizer



FEATURES

- High Frequency AC Technology
- Versatile Application
- Low Offset Balance
- Alarm for HV Power Fail

BENEFITS

- No Calibration Required
- Audio & Visual LED Alarms
- Particle Contamination Cleaning

APPLICATIONS

Electrostatic force is a typical source of micro particle contamination in printed circuit board handling and general electronics industry. It is very hard to remove particle once they attracted on the charged surface of materials. Charge neutralization is important for remove particles from the surface.

High frequency AC technology based, Model 4110 nozzle ionizer is designed small package for space limited in automated process and general cleaning applications. Strong ionized air force is effective for removing particles attracted objects. Model 4110 nozzle ionizer does not required calibration, but just cleaning emitter points in regular based due to high frequency AC power designed. Visual (LED) and audible (buzzer) alarms operates when high voltage power supply fail.

Model 4110 High Frequency AC Nozzle Ionizer

Specifications

Input Voltage	24 VDC, 2.2 W Max.
Ion Emission	High Frequency AC Technology, 70 kHz
Ion Balance	Average Less than ± 10 V, Maximum Less than ± 30 V
Discharge Time	± 1000 V to ± 100 V less than 1 sec at 15cm
Emitter Point	Tungsten 99.99%
Alarm	Visual & Audio alarm operates when ionizer power failures.
Air Pressure	0.1 - 0.5 Mpa
Air Inlet	6mm Inlet
Operating Environment	Temperature: 15 - 35°C Humidity: 35 - 75 % RH
Material	Enclosure: ABS plastic Nozzle: Teflon
Dimensions (mm)	134W x 56H x 61D
Weight	90g
Warranty	1 year limited warranty
Certification	



- Extended Polyurethane Airtube - Maximum 600mm Length
- Rigid Stainless Steel Airtube - Maximum 300mm Length



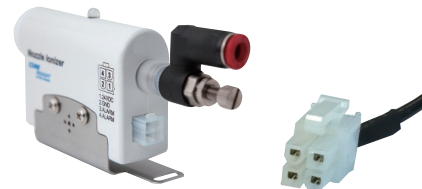
- ELBOW Coupler with Stainless Steel Airtube Optional

DC Power & FMS Monitoring Outputs

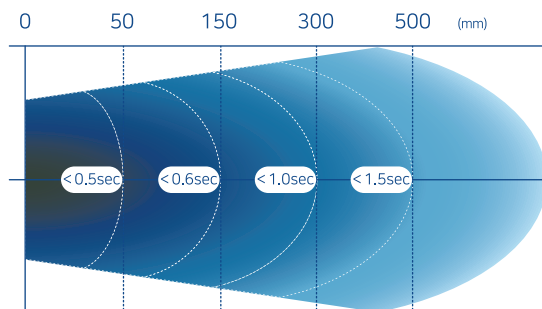
Condition	Pin #1	Pin #2	FMS 3~4
Normal	N/A	N/A	Open
Alarm	N/A	N/A	Closed
Input Power	24V DC	Ground	Closed

Purchasing Options

Model 4120	Compressed air or CDA On/Off operate by IR sensor
Model 4110	Continuous compressed air or CDA operation
Model 4111	IR Sensor Option for Model 4110
Model 4110U	Uretane Airtube Nozzle Assembly



Discharge Time



Discharge time and balance measured according to ANSI/ESD STM3.1 using a Charge Plate Monitor (CPM)

Size & Dimensions (mm)

