CORE INSIGHT 코어인사이트(주)

High Frequency Ionization Systems

Model 4110 Nozzle Ionizer

FEATURES

High Frequency Ion Emission
Facility Monitoring System(FMS) Interface
Power Failure Alarm
Compact Size

BENEFITS

Multi-Color Visual Alarm
Audio Alarm
Emitter Point Easy Clean and Replace
Connect to Process Equipment
Versatile Application

APPLICATIONS

Tribocharging is a typical ESD source and induced field from insulators must be controlled in EPA(ESD protected area). Process required insulators are commonly used in many places and should be neutralize by ionization systems.

Model 4110 has designed versatile applications for semiconductor backend, printed circuit board assembly and general electronics applications. Model 4110 Nozzle Ionizer has built-in feedback sensor to detect out of balance in low voltage level.

Output alarm monitoring interface will allow real time ionizer status monitoring and give visual(LED) & audio(buzzer) alarms when HV power fail.
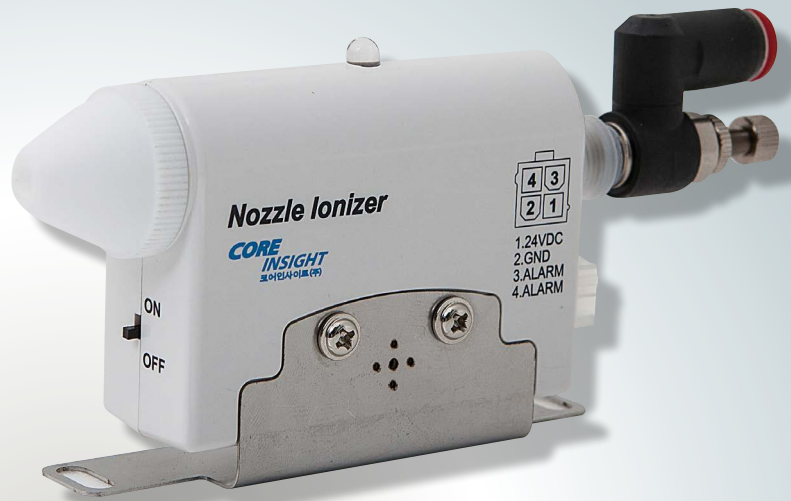
Model 4110 Nozzle Ionizer

SPECIFICATIONS (Preliminary)

|	
Input Voltage	24V DC, 2.2W (Maximum)
Ion Emission	High Frequency AC (70kHz)
Balance	Avg.≤ ±10V, Max.≤ ±30V
Discharge	±1000V to ±100V less than 1 seconds at 15cm
Emitter Point	Tungsten 99.99%
Alarm Function	Visual (LED), Audio (Buzzer) HV Power Fail (Normal open)
Output Monitoring	FMS Interface
Air Pressure	0.1~0.5 Mpa
Air Inlet	6mm Inlet
Material	Ionizer body : ABS (White) Bracket : SUS
Operating Environment	Temperature : 15~35℃, Humidity : 35~85% RH
Dimension (W×H×D)	134×55.5×25mm With bracket 134×61.1×25mm
Weight	90g (with bracket)
Warranty	1year

OPTION

Nozzle Ionizer-Sensor
Model 4111

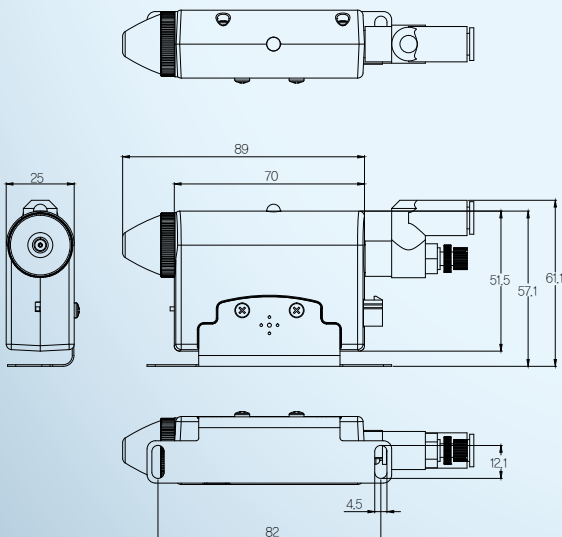Model 4111 is operating air outlet when the IR sensor detect. (ex : Conveyor lines, etc)

\<Model 4111\>

CONNECTOR
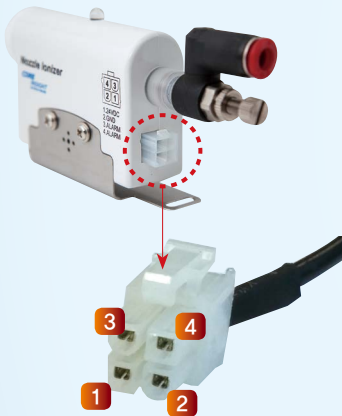
DC 24V & Alarm Interface

Pin No.	Description
FMS 1	DC 24V +
FMS 2	DC 24V - (Ground)
FMS 3	HVP Alarm relay output
FMS 4	HVP Relay common

Facility Monitoring System Output Signals	
Conditions	FMS 3-4
Normal	OPEN
Alarm	CLOSED
Power OFF	CLOSED

Sizes & Dimensions (mm)

Model 4110 Discharge Time

Air Pressure 3bar

| +Decay time(sec) |
| −Decay time(sec) |

50	150	300	500
0.55	0.66	1.1	1.5
0.66	0.77	1.2	1.8
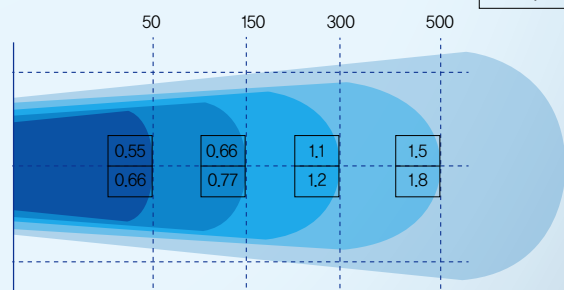
Accessories

wall mount Adapter   or   Interface cable