

ER-Q SERIES

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- PHOTOELECTRIC SENSORS
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- LIGHT CURTAINS
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- INDUCTIVE PROXIMITY SENSORS
- PARTICULAR USE SENSORS
- SENSOR OPTIONS
- SIMPLE WIRE-SAVING UNITS
- WIRE-SAVING SYSTEMS
- MEASUREMENT SENSORS



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STATIC CONTROL DEVICES

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- LASER MARKERS
- PLC / TERMINALS
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- ENERGY CONSUMPTION VISUALIZATION COMPONENTS
- FA COMPONENTS
- MACHINE VISION SYSTEMS
- UV CURING SYSTEMS

Spot charge removal without compressed air

Miniature

A perfect fit for installation in other devices.

Adjustable

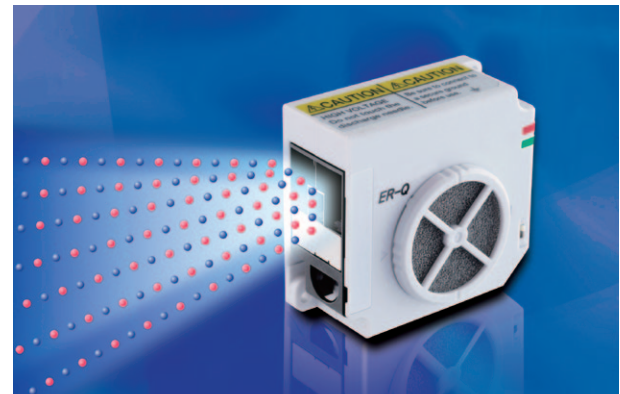
Includes volume adjuster to change fan blowing to meet your needs.

Safe design

The LED display and output indicate maintenance timing and problems with the fan.

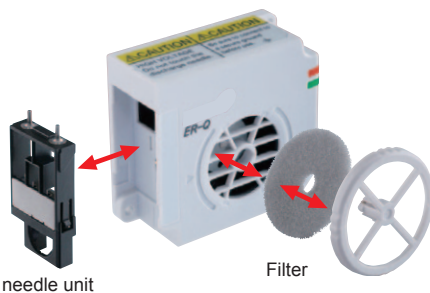
Simple maintenance

Assembled and disassembled in a single touch, reducing steps required to replace parts or clean filters.



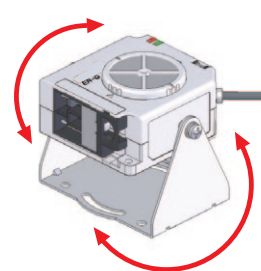
Freely mounted: No air hoses necessary

Mountable like a sensor in cell workbenches or inside devices.

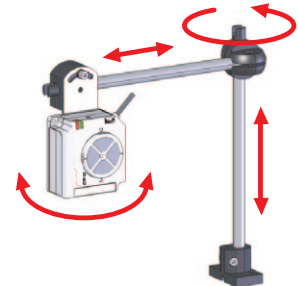


Discharge needle unit

Filter



ER-QMS1



MS-AJ1-A

- Selection Guide
- Static Removers
- Cleaning Box
- Pluse Air-gun
- Electrostatic Sensor

ER-Q


ER-F

ER-TF

ER-VW

ER-V

ORDER GUIDE

Type	Appearance	Change removal time (±1,000V→±100V)	Ion balance	Model No.
Compact fan type		1.5 sec. approx. (Note)	±10 V or less	ER-Q

Note: Typical value at 100 mm **3.937 in** from directly in front of air outlet, fan speed MAX., with no filter installed.

OPTIONS

Designation	Model No.	Description
Mounting bracket	ER-QMS1	The ER-Q mounting bracket. Adjust the air output direction.
Connector-attached cable	ER-QCC2	Length 2 m 6.562 ft • 0.13 mm ² 8-core connector cable • Cable outer diameter: ø3.7 mm ø0.146 in
	ER-QCC5	Length 5 m 16.404 ft
AC adapter	ER-VAPS1	• IN: 100 to 240 V AC, 50 / 60 Hz, 40 VA • OUT: 24 V DC, 750 mA • Ambient temperature: 0 to +40 °C +32 to +104 °F
Discharge needle unit	ER-QANT	Unit with tungsten needles (1 pc.)
Air filter	ER-QFX5	Fan intake filter (5 pcs. per set)

FIBER
SENSORSLASER
SENSORSPHOTO-
ELECTRIC
SENSORSMICRO
PHOTO-
ELECTRIC
SENSORSAREA
SENSORSLIGHT
CURTAINSPRESSURE /
FLOW
SENSORSINDUCTIVE
PROXIMITY
SENSORSPARTICULAR
USE
SENSORSSENSOR
OPTIONSSIMPLE
WIRE-SAVING
UNITSWIRE-SAVING
SYSTEMSMEASURE-
MENT
SENSORSSTATIC
CONTROL
DEVICES

ENDOSCOPE

LASER
MARKERSPLC /
TERMINALSHUMAN
MACHINE
INTERFACESENERGY
CONSUMPTION
VISUALIZATION
COMPONENTSFA
COMPONENTSMACHINE
VISION
SYSTEMSUV
CURING
SYSTEMSSelection
GuideStatic
RemoversCleaning
BoxPluse
Air-gunElectrostatic
Sensor**ER-Q****ER-F****ER-TF****ER-VW****ER-V**

SPECIFICATIONS

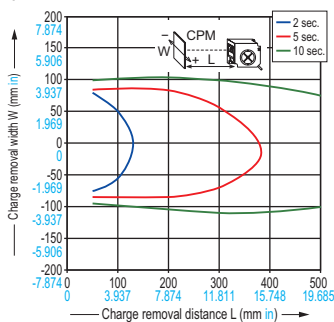
Type	Compact fan type	
Item	Model No.	ER-Q
Charge removal time		1.5 sec. approx. (Note)
Ion balance		±10 V or less (Note)
Power supply voltage		24 V DC ±10%
Power consumption		200 mA or less
Discharge method		High-frequency AC method
Discharge output voltage		±2 kV approx.
Max. fan speed		6.4 m/s (Note)
Max. fan volume		0.2 m³/min
Main functions	Discharge check, Discharge error, Fan error, Check output, Error output	
Indicators	Discharge (DSC): Green LED, Alarm (ALARM): Red LED	
Ozone generation amount	0.02 ppm or less (Note)	
Ambient temperature	0 to +50 °C +32 to +122 °F (No dew condensation), Storage: -10 to +65 °C +14 to +149 °F	
Ambient humidity	35 to 65% RH (No dew condensation), Storage: 35 to 65% RH	
Vibration resistance	10 to 150 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each	
Grounding method	C (capacitor) grounding	
Material	Enclosure: PBT, Discharge needle: Tungsten	
Weight	Net weight: 110 g approx.	
Accessory	Connector for wiring: 1 set [Manufactured by MOLEX: Housing (5557-08P), Terminal (5556T)]	

Note: Typical value at 100 mm **3.937 in** from directly in front of air outlet, fan speed MAX., with no filter installed.

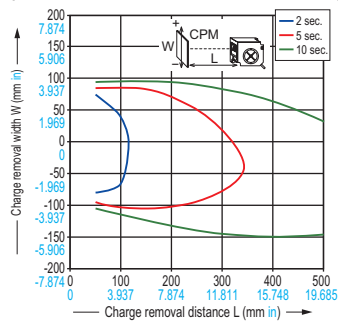
CHARGE REMOVAL CHARACTERISTICS (TYPICAL)

- Measured using a 150 mm × 150 mm **5.906 in × 5.906 in** CPM (charge plate monitor). (At center of CPM)

Charge removal field (horizontal direction)
(Fan speed MAX., filter is mounted)



Charge removal field (vertical direction)
(Fan speed MAX., filter is mounted)



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PRECAUTIONS FOR PROPER USE

Refer to General precautions.



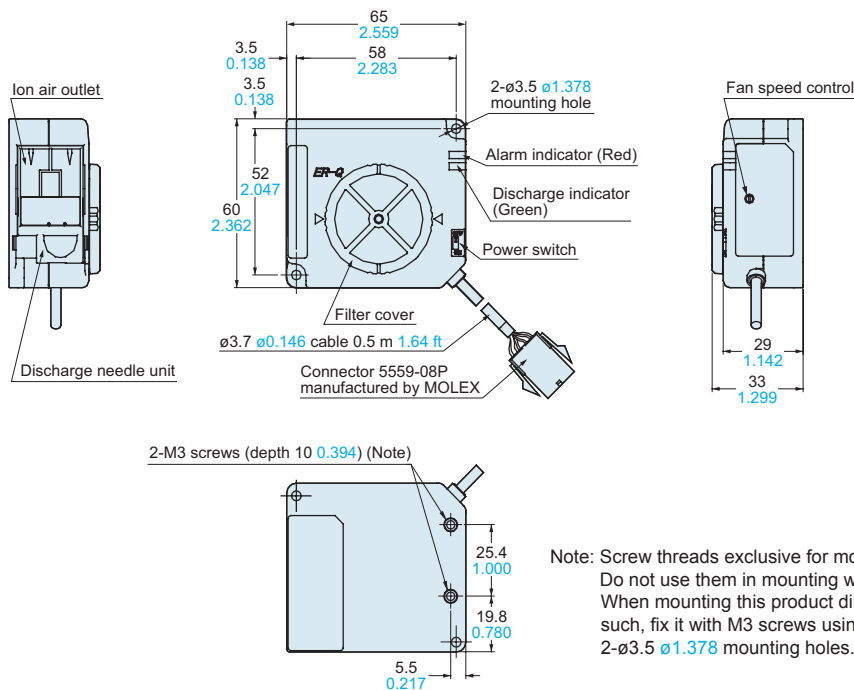
- Never use this product in a device for personnel protection.
- In case of using devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- Do not use this product in places where there may be a danger of flammable or combustible items being present.

DIMENSIONS (Unit: mm in)

The CAD data in the dimensions can be downloaded from our website.

ER-Q

Ionizer main unit



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