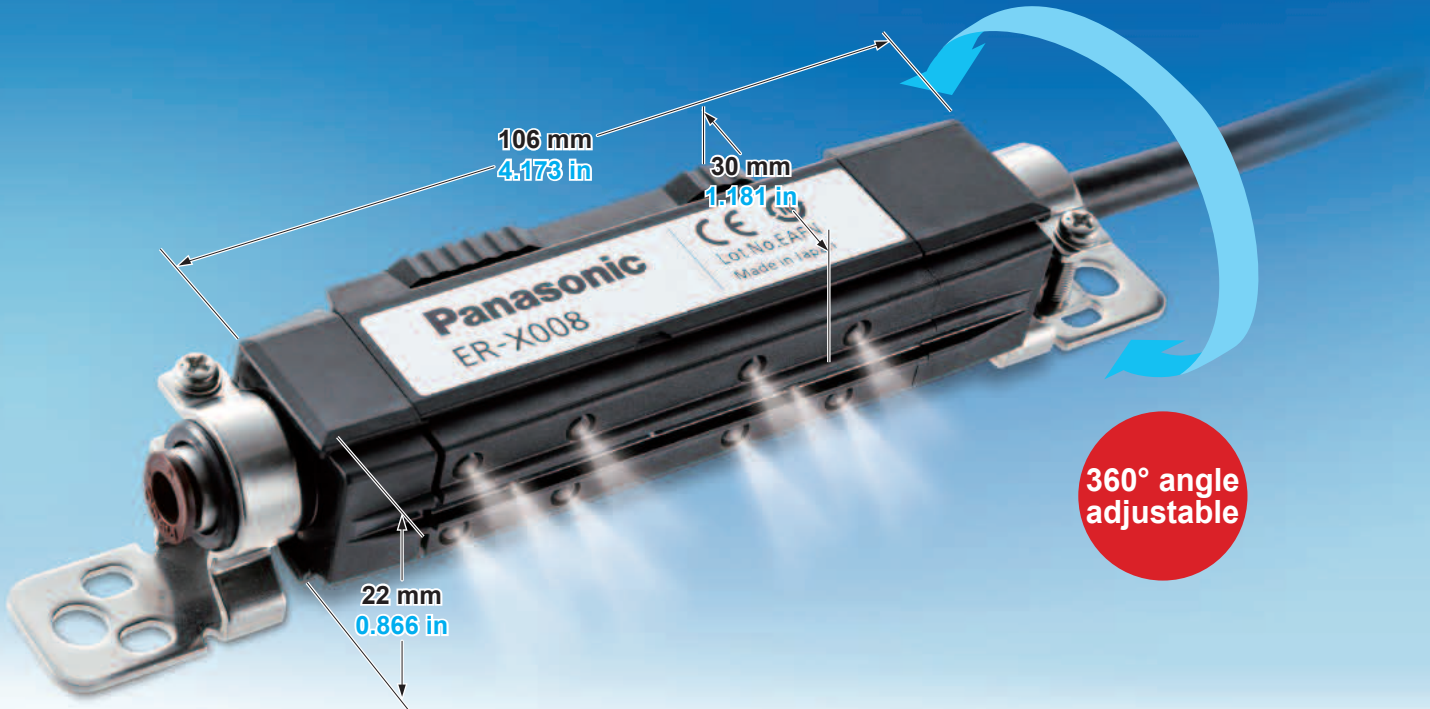


So compact!



Pulse AC method for faster charge removal

The pulse AC method enables to generate and discharge a large amount of ions, which makes charge removal faster.

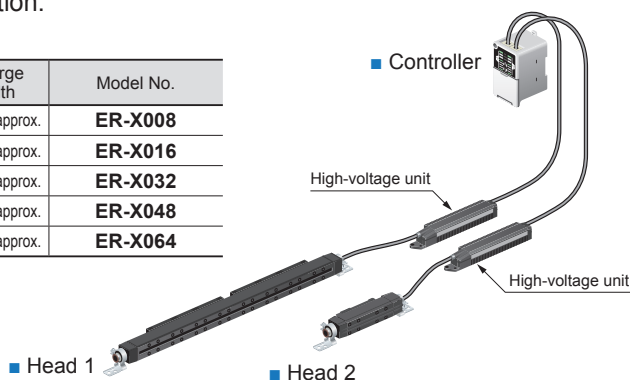
Charge removal modes can be selected.

Charge removal in "fast" or "low-pressure" mode requires compressed air, while "airless or low-pressure" mode does not need compressed air.

Dual head configuration achieves extensibility in charge removal area and layout arrangement.

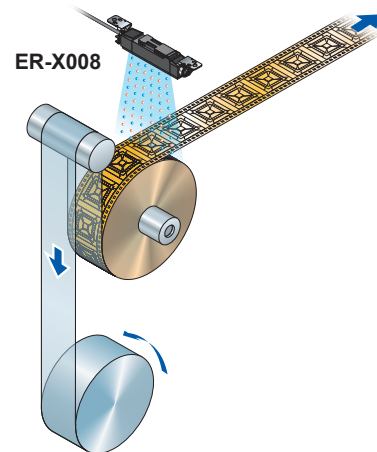
Different size heads can be connected in combination.

Effective charge removal width	Model No.
80 mm 3.150 in approx.	ER-X008
160 mm 6.299 in approx.	ER-X016
320 mm 12.598 in approx.	ER-X032
480 mm 18.898 in approx.	ER-X048
640 mm 25.197 in approx.	ER-X064

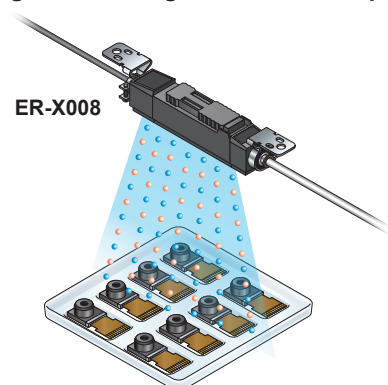


Applications

Removing dust while separating TAB protective film



Preventing static damage to module components



ORDER GUIDE

Designation	Model No.	Description
Head (Note 1)	ER-X008	Effective charge removal width: 80 mm 3.150 in approx.
Controller (Note 2)	ER-XC02	Number of heads connected: Max. 2 units PhotoMOS relay output
Head connection cable	ER-XCCJ2H	Length: 2 m 6.562 ft
	ER-XCCJ5H	Length: 5 m 16.404 ft
	ER-XCCJ10H	Length: 10 m 32.808 ft

Notes: 1) Head connection cable is not supplied with the head. Please order it separately.
2) Please order a power cable or AC adapter separately.

MAIN SPECIFICATIONS (HEAD)

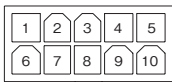
For more information about controllers, refer to the **ER-X** series catalog or our website.

Item	Model No.	ER-X008
Effective charge removal width		80 mm 3.150 in approx.
Charge removal time		1 second or less ($\pm 1,000V \rightarrow \pm 100V$) (Note 1)
Ion balance		$\pm 30V$ or less (Note 1) (Note 2)
Discharge method		Pulse AC method
Discharge output voltage		7,000 V approx.
Ozone generation		0.01 ppm or less (Note 1)
Maximum air pressure		0.5 MPa
Applicable fluid		Air (dried clean air) (Note 3)
Ambient temperature		0 to +50 °C +32 to +122 °F (No dew condensation), storage: -10 to +65 °C +14 to +149 °F
Enclosure grounding method		Floating
Material		Main unit enclosure: PPS, stainless steel (SUS), Head mounting bracket: Stainless steel (SUS), Discharge needle: Tungsten
Net weight		330 g approx.

Notes: 1) Typical value in condition of discharge distance 100 mm **3.937 in**, center of the product, discharge wavelength 50 Hz and no air supply.
2) Ion balance refers to the average value of plus and minus. The specification value is the typical one in condition used when ambient temperature change is less than ± 10 °C, ion balance is set after 30 minutes from the discharge start, the ion balance control function is set ON.
3) The dried clean air is the air dried (dew point: equivalent of -20 °C) and filtered (mesh-size: equivalent of 0.01 μ m).

I/O CIRCUIT AND WIRING DIAGRAMS (NEW CONTROLLER)

Power connector pin arrangement



(Front view)

Housing: 5569-10A

[Manufactured by Molex Inc.]

Terminal No.	Terminal name	Color code
1	0 V	Blue
2	COM(-)	—
3	Discharge control input	Pink
4	COM(OUT)	Violet
5	F.G. terminal	Green/Yellow
6	24 V	Brown
7	COM(+)	—
8	COM(IN)	White
9	Alarm output	Orange
10	Error output	Black

Note : Color code refers to cable colors of an optional power supply cable.

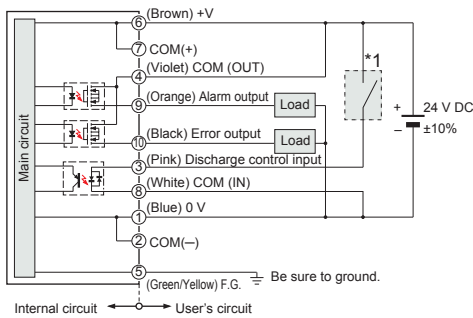
* 1

Non-voltage contact or PNP transistor / open collector
Contact "closed" or transistor ON: Discharge halt
Contact "open" or transistor OFF: Discharge start

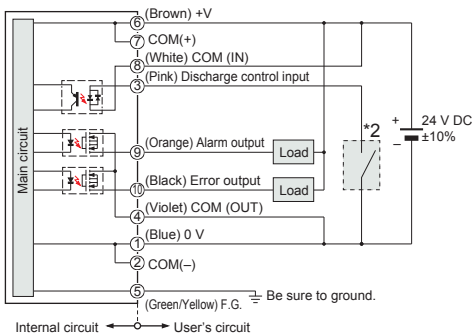
* 2

Non-voltage contact or NPN transistor / open collector
Contact "closed" or transistor ON: Discharge halt
Contact "open" or transistor OFF: Discharge start

When connecting the output to negative common



When connecting the output to positive common



OPTIONS

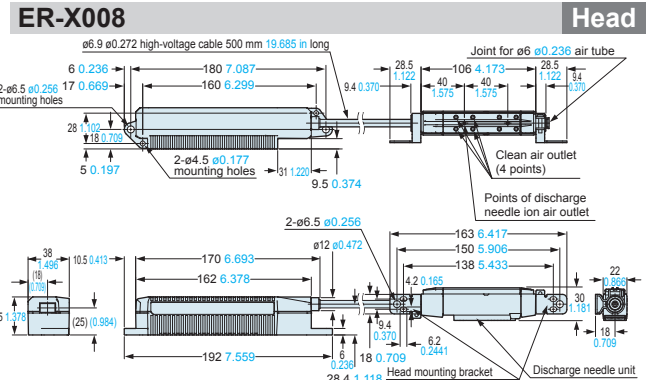
Designation	Model No.	Description
Power cable	ER-XCC2	Length: 2 m 6.562 ft 0.15 mm ² 10-core cabtyre cable with connector
	ER-XCC5	Length: 5 m 16.404 ft 0.15 mm ² 10-core cabtyre cable with connector
AC adapter	ER-XAPS	IN: 100 to 240 V AC, 50 / 60 Hz OUT: 24 V DC, 1.5 A Ambient temperature: 0 to +40 °C +32 to +104 °F Cable length between connector - AC adapter: 1.8 m 5.906 ft Ground wire: 3.7 m 12.139 ft AC cable: 1 pc., cable length 1.8 m 5.906 ft , rating 125 V AC (Note) Wiring connector terminals: 6 pcs.
Discharge needle unit	ER-XANT2	Unit with replacement tungsten needles: 1 pc.

Note: Rating of the AC cable is 125 V AC. In case using at more than 125 V, please prepare an appropriate AC cable separately.

DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from our website.

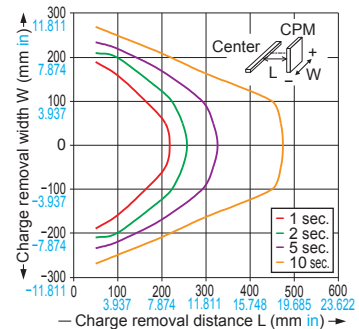
For more information about controllers, refer to the **ER-X** series catalog or our website.



ER-X008 CHARGE REMOVAL CHARACTERISTICS (TYPICAL)

Measured at the center of a charge plate monitor, sized 150 × 150 mm **5.906 × 5.906 in**.

Charge removal field (horizontal direction, 0.005 MPa, 10 Hz)



PRECAUTIONS FOR PROPER USE

Read the "instruction manual" carefully and thoroughly for the correct and optimum use of this product.

When using the **ER-X008**, use the new controller **ER-XC02**.

The new controller **ER-XC02** is compatible with existing heads of the **ER-X** series.

The new controller can be distinguished as follows:

New **ER-XC02** controller

Old **ER-XC02** controller

