

Separate Controller

Ionizer / Slim Bar Type

New

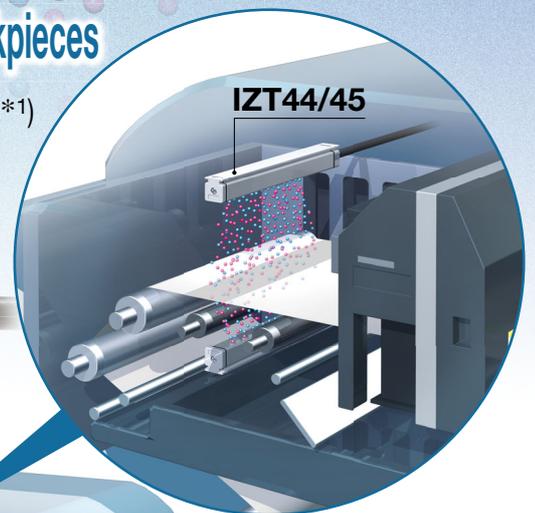


Powerfully eliminates static electricity from highly charged workpieces

- Pulse AC type, High density emitter arrangement (6 times the number of emitters*1)
- Ideal for removing static electricity from films, resins, etc.

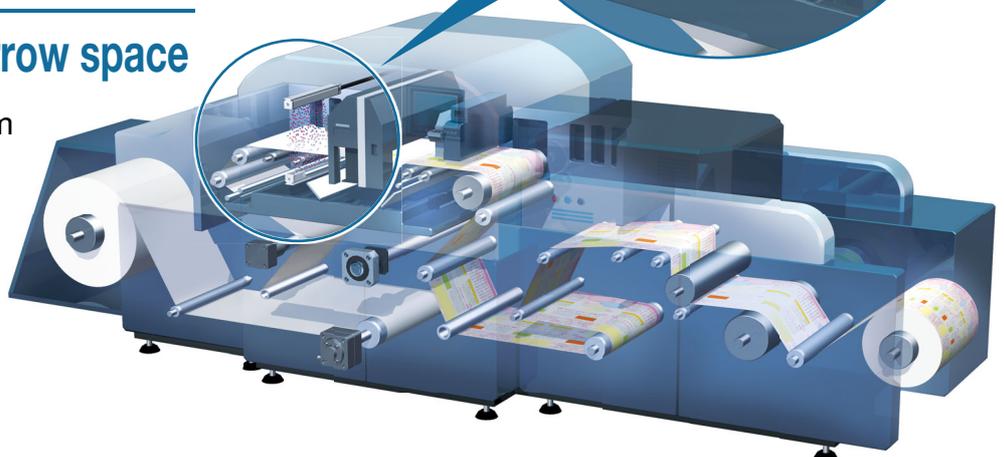
*1 Compared to the existing model

New IZT44/45



Can be mounted in a narrow space

- Height 23 mm x Width 20 mm



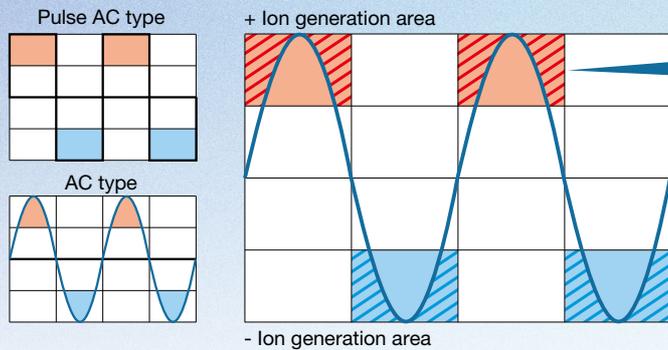
IZT44/45 Series



CAT.EUS100-168A-UK

Powerful static elimination Pulse AC type, High density emitter arrangement (6 times the number of emitters*1)

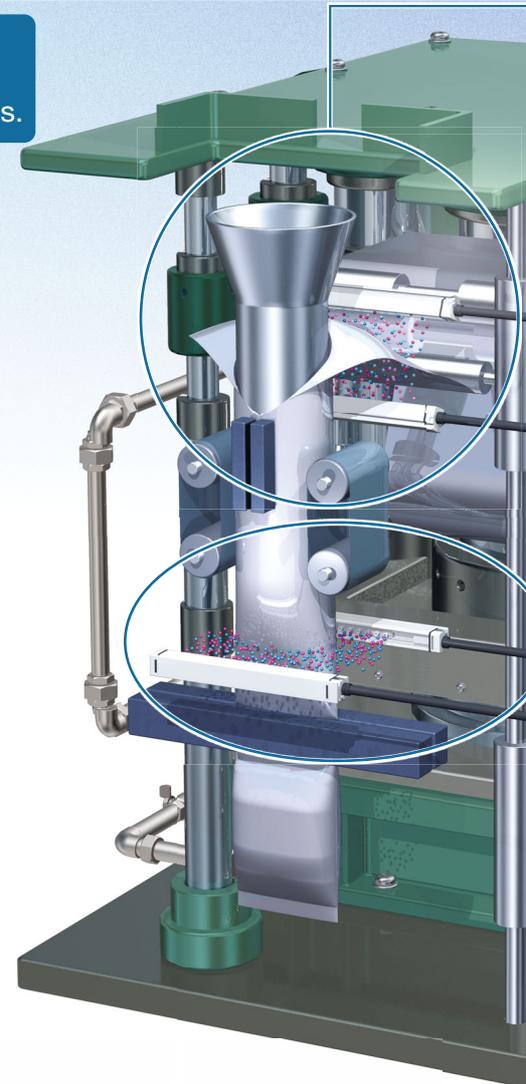
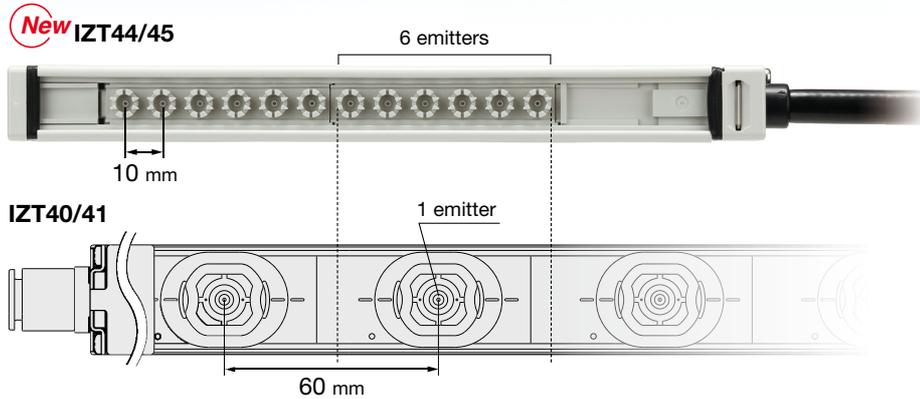
*1 Compared to the existing model



The amount of ion generation is large in the shaded areas.

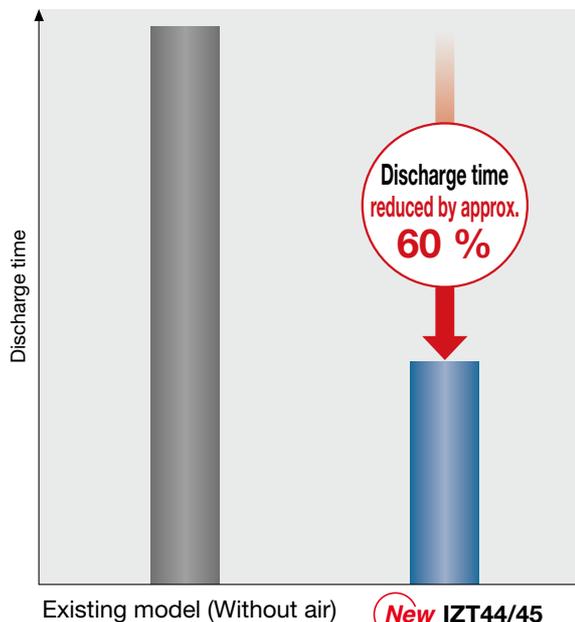
High density emitter arrangement

	Pitch [mm]	Number of emitters
New IZT44/45	10	6
IZT40/41	60	1



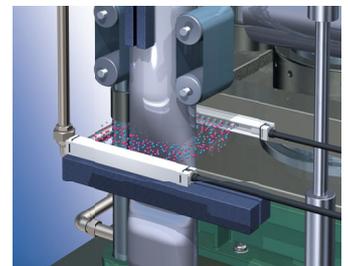
High speed static elimination

Ion generation frequency: 30 Hz, Without air

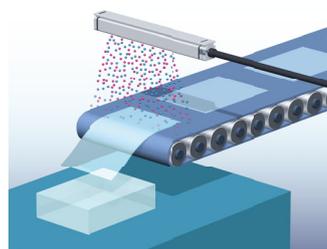


Powerful static elimination is possible without air supply.

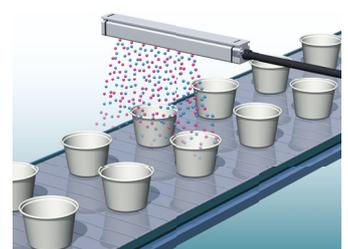
Prevents heat sealer temperature deterioration



Prevents workpiece from being blown away



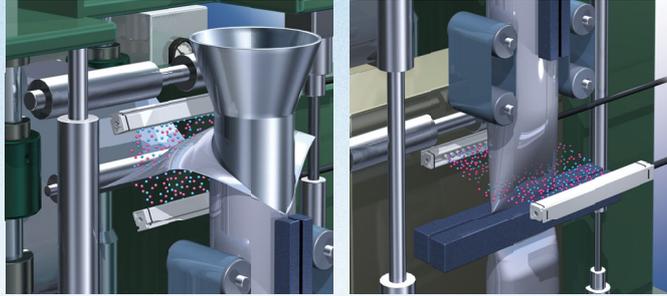
Prevents dust from blowing up



Compact design allows close installation in narrow spaces.

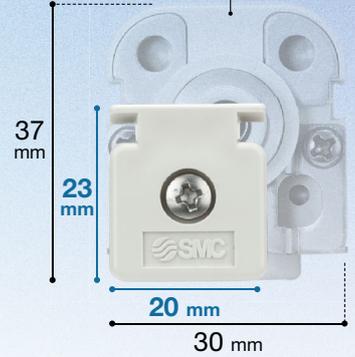
Installation at the film transfer section

Installation near the seal section



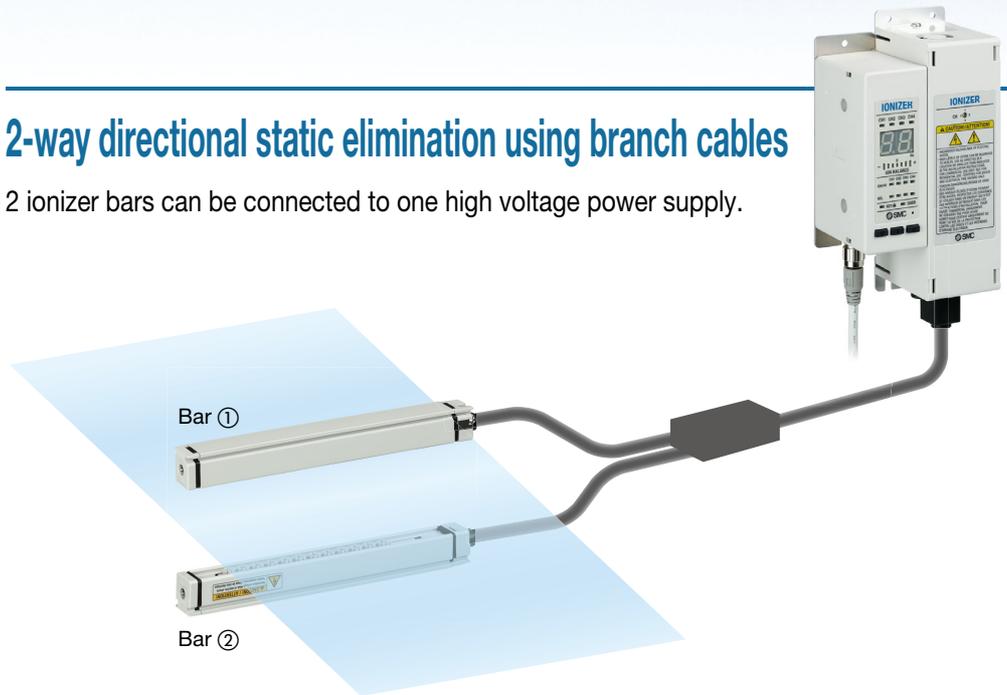
Height: Comparison with the existing model

Existing model IZT40/41



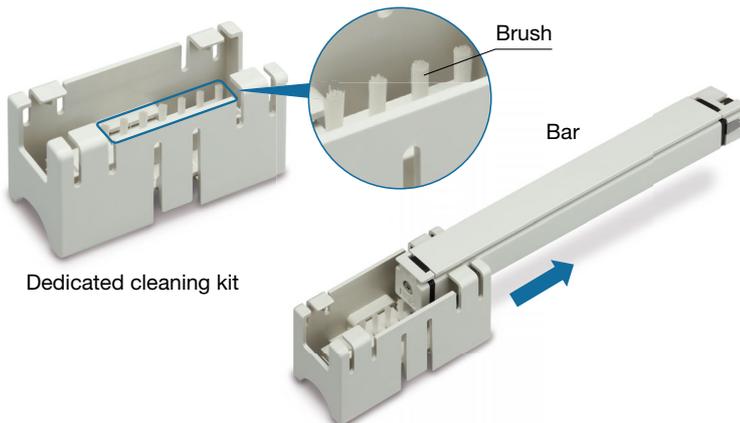
2-way directional static elimination using branch cables

2 ionizer bars can be connected to one high voltage power supply.

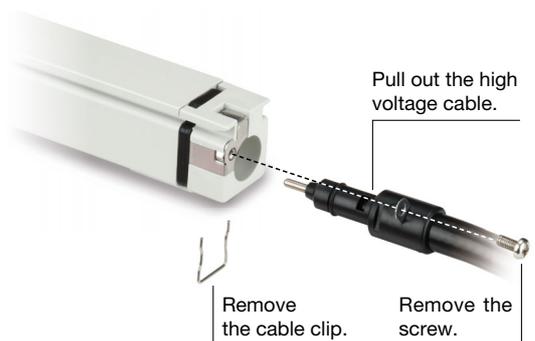


Improved maintainability

• Clean all the emitters with a dedicated cleaning kit.



• The bar can be easily replaced. **p. 4**

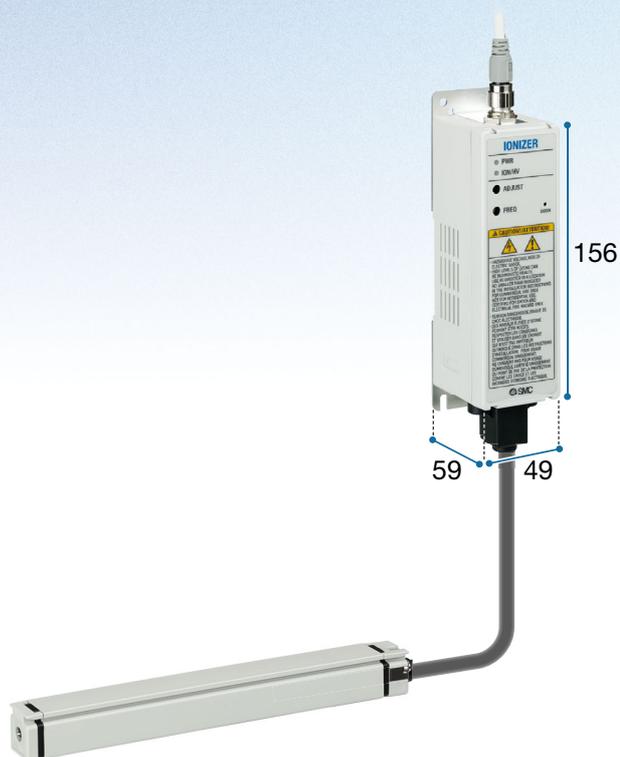


2 types of controllers are available.

Integrated High voltage power supply IZT44 Series

Simple operation

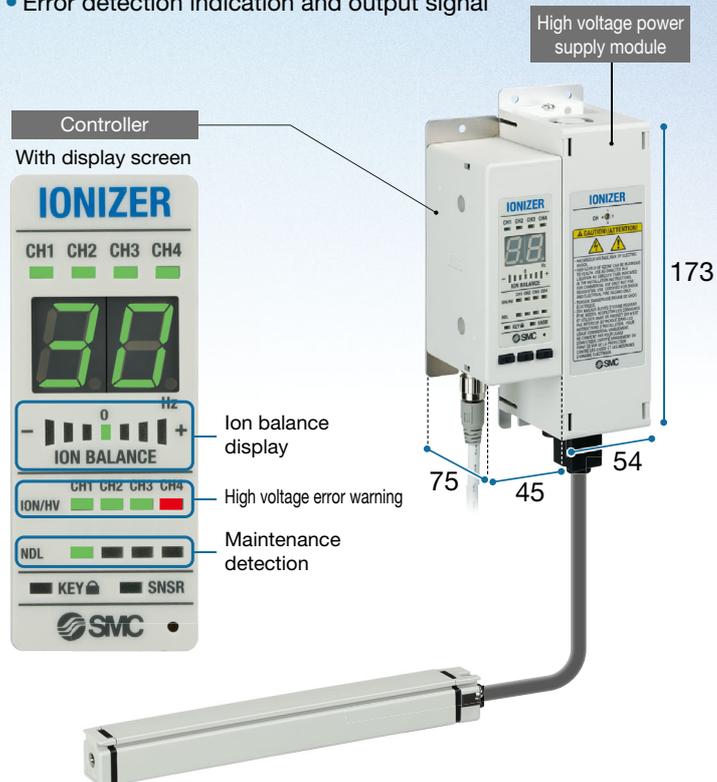
- Ready to use by simply turning on the power supply.
- Space-saving installation
- Error detection indication and output signal



Separate High voltage power supply IZT45 Series

Supports various sensing function.

- Flexible layout by the separation of the controller and the high voltage power supply module
- 4 high voltage power supply modules can be connected
- Error detection indication and output signal

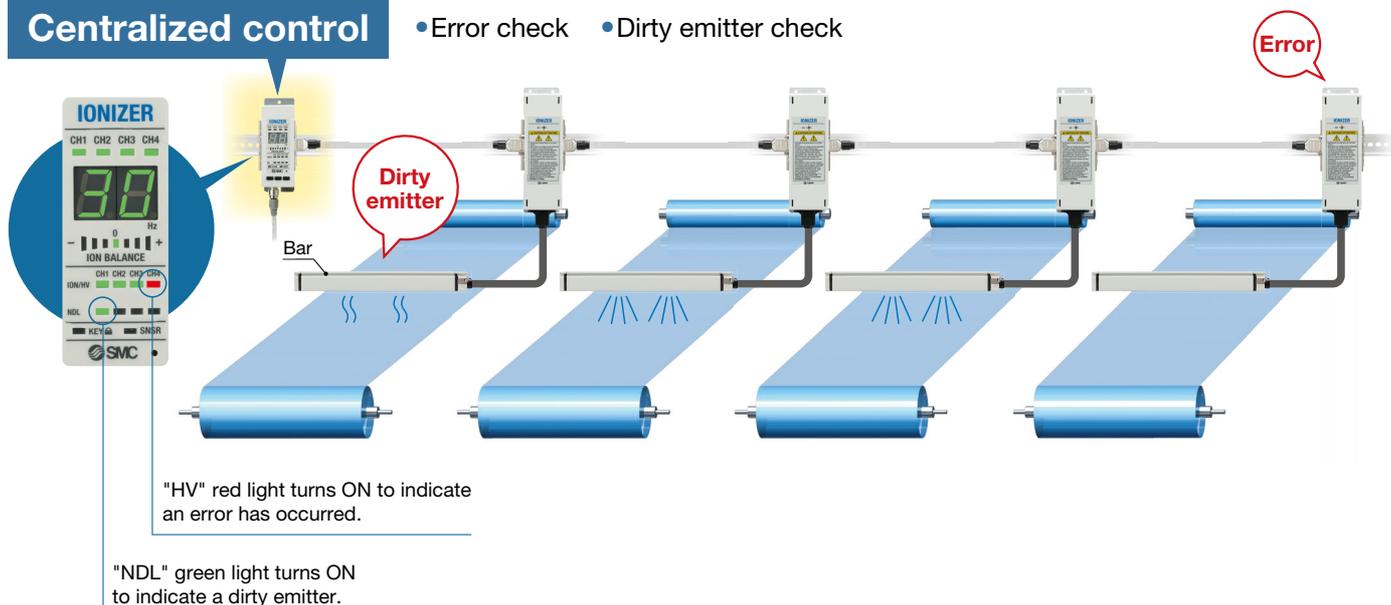


Up to 4 high voltage power supply modules can be connected to one controller.

IZT 45

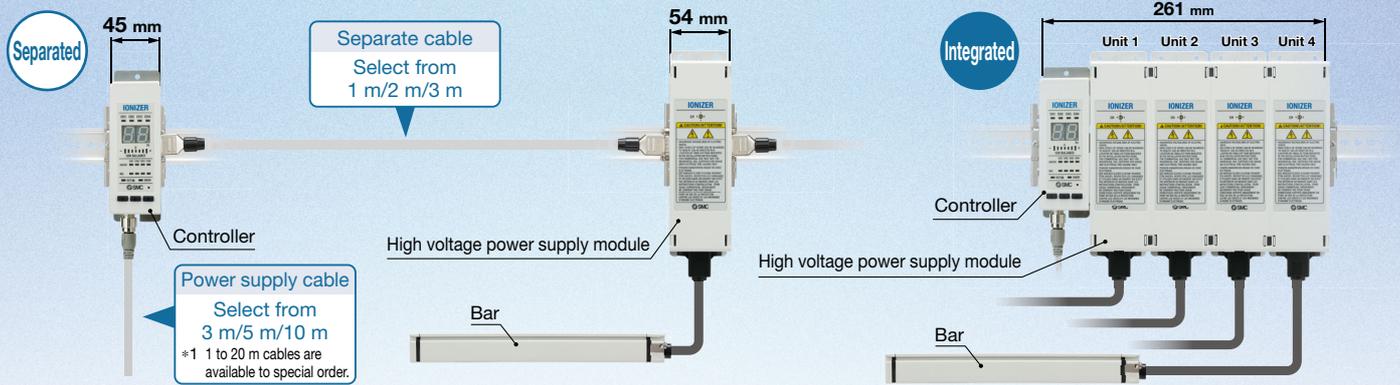
Centralized control

- Error check
- Dirty emitter check



Flexible layout possible with various module connection methods

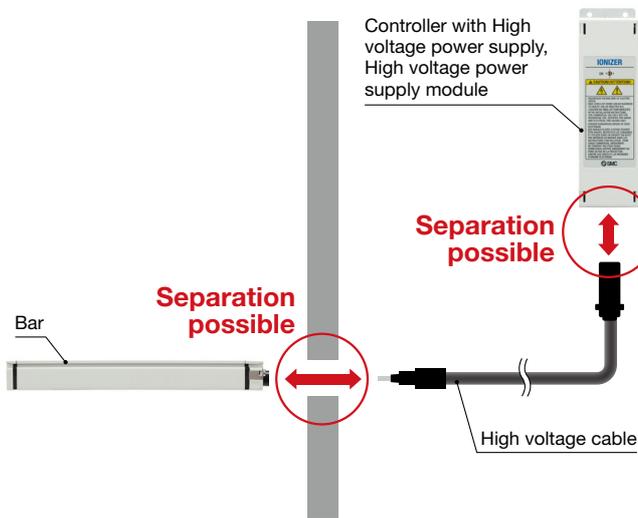
IZT 45



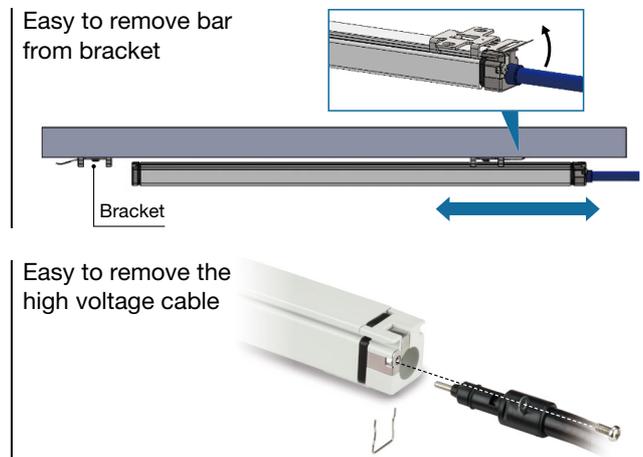
• Controller to Bar maximum installation distance: 15 m



Can be installed through gaps between equipment

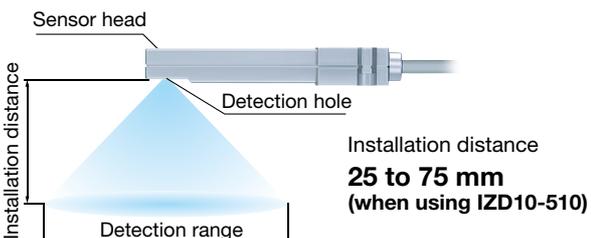


Improved installation, replacement, and maintenance in narrow spaces



Related Products

Electrostatic Sensor/IZD10 Series



Installation distance and detection range

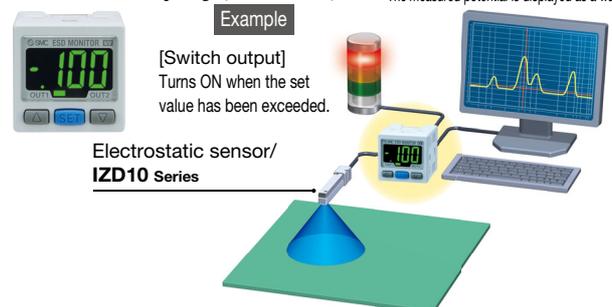
Installation distance [mm]	25	30	40	50	60	70	75
Detection range [mm]	100	120	150	180	205	225	235

Electrostatic Sensor Monitor/IZE11 Series

2-colour display (Red/Green)

[Analog output]

The measured potential is displayed as a waveform.



Separate Controller Ionizer / Slim Bar Type IZT44/45 Series

<Functions>

	IZT44	IZT45
Applied voltage method	Pulse AC, DC (either positive or negative)	Pulse AC, DC (either positive or negative)
Auto balance	—	●
Input/Output	● (Output only)	●
Ion balance display	—	●
High voltage error detection	●	●
Maintenance detection	—	●
Ion generation stop signal	—	●
Output check*1	●	●
NPN/PNP switch output	● (Wiring)	● (Controller operation)

*1 The function which provides an output signal arbitrarily in normal operation (For wiring confirmation)

<Accessories, Optional Parts>

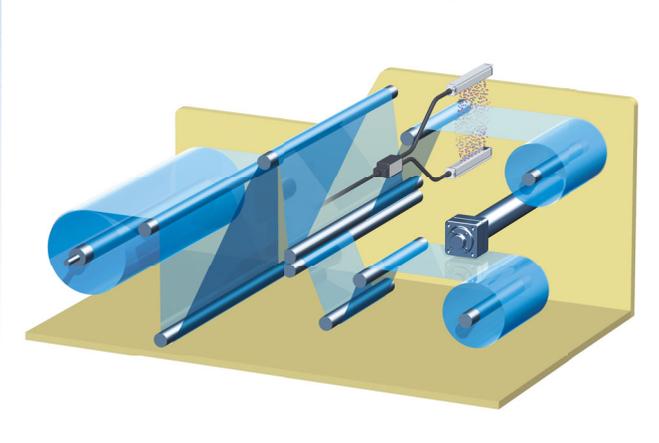
Bar bracket p. 12		●	●
DIN rail mounting bracket for Controller and High voltage power supply module p. 12	IZT44 For Controller with High voltage power supply 	●	—
	IZT45 For Controller For High voltage power supply module 	—	●
Power supply cable	For IZT44 p. 12 	●	—
	For IZT45 p. 12 	—	●
AC adapter p. 12 	For IZT44	●	—
	For IZT45	—	●
Separate cable p. 12 		—	●
High voltage cable assembly p. 12 		●	●
Branch cable assembly p. 12 		●	●
High voltage cable holder p. 12	Straight Elbow 	●	●
Cleaning kit p. 12 		●	●



Application Examples

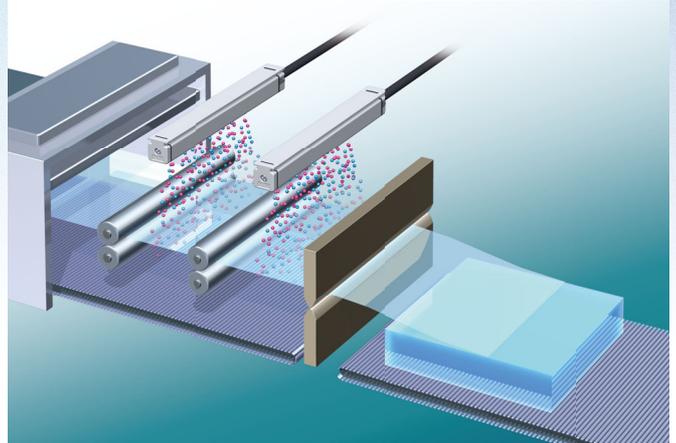
For the film conveyer

- Prevents dust adhesion
- Prevents film winding defects



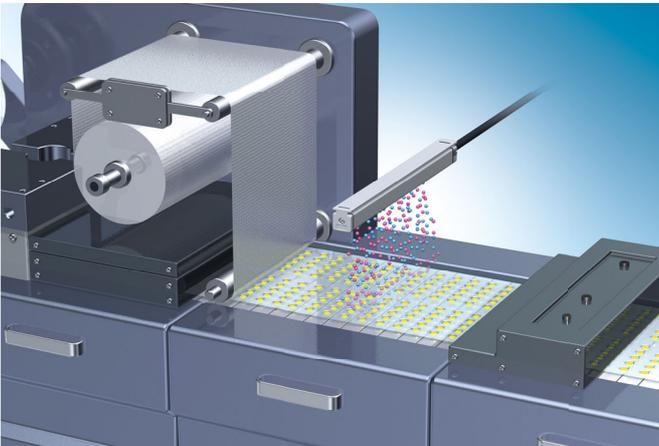
For the film cutting

- Prevents bag sticking and scattering
- Prevents operator discomfort



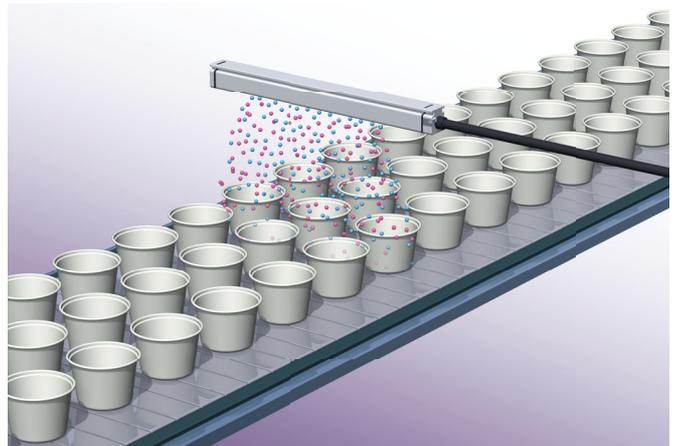
For the PTP / Blister packaging machine

- Prevents tablets from popping out



For the static neutralization of cups

- Prevents dust adhesion



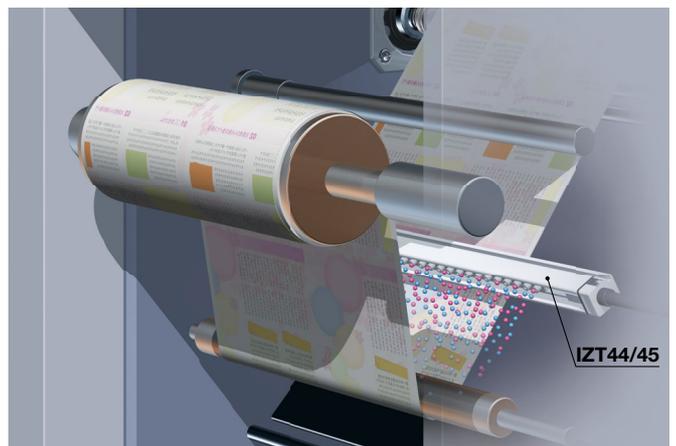
For the label pasting machine

- Prevents dust adhesion
- Prevents incorrect label pasting position



For the rotary printing press

- Prevents poor winding of printed materials



CONTENTS

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IZT44 Series



IZT45 Series



Separate Controller

Ionizer / Slim Bar Type IZT44/45 Series

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Bar + Controller with High voltage power supply	p. 9
Bar + High voltage power supply module + Controller	p. 9
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(Bar/Controller with High voltage power supply/Controller/High voltage power supply module)	
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IZT44/45 Series/Precautions

Be sure to read this before handling the products. For the safety instructions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” found on the SMC website: <https://www.smc.eu>

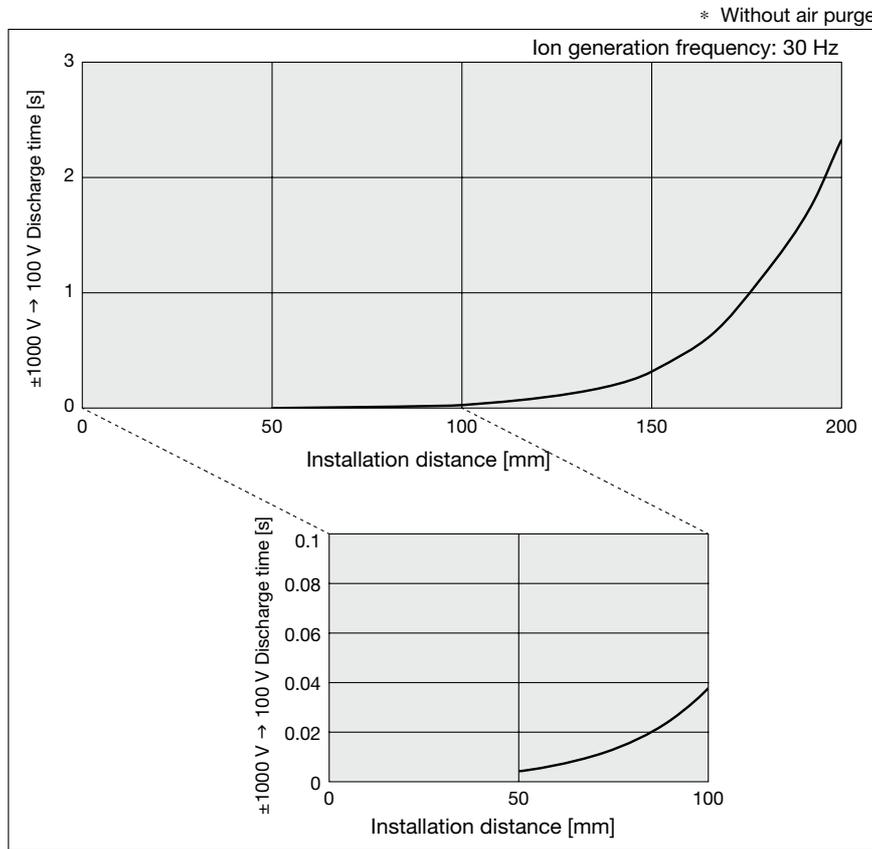
IZT44/45 Series

Technical Data

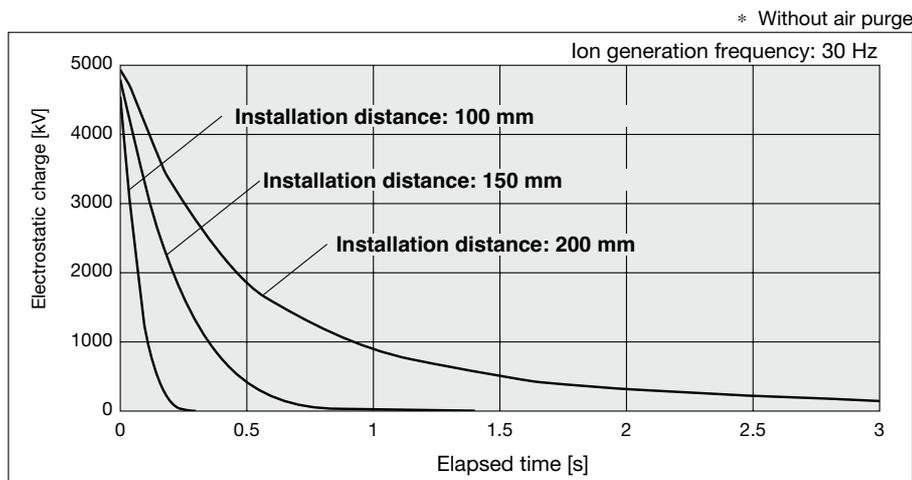
* Static neutralization characteristics are based on data using a charged plate (Dimensions: 150 mm x 150 mm, Capacitance: 20 pF) as defined in the U.S. ANSI standards (ANSI/ESD STM3.1-2015). Use this data only as a guideline for model selection because the values vary depending on the material and/or size of the subject.

Static Neutralization Characteristics

① Installation Distance and Discharge Time (Discharge Time from 1000 V to 100 V)



② Change in Electrostatic Charge during Static Neutralization



Separate Controller



Ionizer / Slim Bar Type

IZT44/45 Series

How to Order

Bar + Controller with High voltage power supply

IZT44-20-1-3V

Bar + High voltage power supply module + Controller

IZT45-20-1-3W

① ② ③ ④

① Bar length

Symbol	Bar length [mm]	Symbol	Bar length [mm]
20	200	56	560
26	260	62	620
32	320	68	680
38	380	74	740
44	440	92	920
50	500	128	1280

* The number of bar brackets included will vary depending on the bar length (see the table below).

Number of included bar brackets

Bar length [mm]	End bracket	Intermediate bracket
200 to 620	2	None
680 to 1280		1

③ Power supply cable length

Symbol	Cable length [m]
3	3
5	5
10	10
N	None

* The power supply cables included with IZT44 and IZT45 are different.
 * When using an AC adapter, select "N" and then select the AC adapter from the items sold separately.

② High voltage cable length

Symbol	Cable length [m]
1	1
2	2
3	3

* The number of included high voltage cable holders differs depending on the high voltage cable length. (Refer to the table below.)

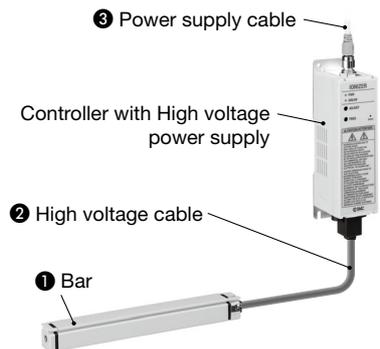
Number of included high voltage cable holders

Symbol	Straight	Elbow
1	1	1
2	2	1
3	3	1

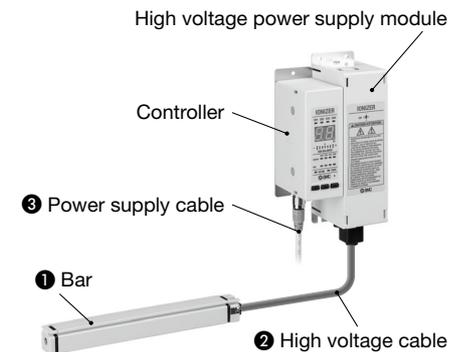
④ DIN rail mounting bracket

For IZT44 Controller with High voltage power supply	
Symbol	For Controller
-	None
V	Included

For IZT45 Controller, For High voltage power supply module		
Symbol	For Controller	For High voltage power supply module
-	None	None
U	Included	Included
W	Included	None
Y	None	Included



IZT44



IZT45

For Individual Parts

How to Order

Individual Parts Combinations

	Bar / IZTB44	High voltage power supply module / IZTP41-L	Controller / IZTC	
			44 (with High voltage power supply)	45
IZT44	●		●	
IZT45	●	●		●



① Bar length

Symbol	Bar length [mm]	Symbol	Bar length [mm]
20	200	56	560
26	260	62	620
32	320	68	680
38	380	74	740
44	440	92	920
50	500	128	1280

② High voltage cable length

Symbol	Cable length [m]
1	1
2	2
3	3
N	None

* The number of included high voltage cable holders differs depending on the high voltage cable length. (Refer to the table below.)

Number of included high voltage cable holders

Symbol	Straight	Elbow
1	1	1
2	2	1
3	3	1

③ Bar bracket

Symbol	For Bar
-	None
B	Included

* The number of bar brackets included will vary depending on the bar length (see the table below).

*** Number of included brackets**

Bar length	End bracket	Intermediate bracket
200 to 620	2	None
680 to 1280		1

Controller with High voltage power supply



Controller



① Power supply cable length

Symbol	Cable length [m]
3	3
5	5
10	10
N	None

* The power supply cables included with IZTC44 and IZTC45 are different.

② DIN rail mounting bracket for IZT44 Controller

Symbol	For Controller
-	None
V	Included

③ DIN rail mounting bracket for IZT45 Controller

Symbol	For Controller
-	None
W	Included

High voltage power supply module



① DIN rail mounting bracket for High voltage power supply module

Symbol	For High voltage power supply module
-	None
Y	Included



IZT44/45 Series

Specifications

Ionizer model		IZT44	IZT45
Ion generation method		Corona discharge type	
Method of applying voltage		AC, DC*1	
Applied voltage		±7000 V	
Current consumption		0.5 A or less	0.6 A or less (+0.5 A or less per ionizer when connected)
Power supply voltage		24 VDC ±10 %	
Switch input	NPN specification *2	—	Voltage range: 5 VDC or less Current consumption: 5 mA or less
	PNP specification *2	—	Voltage range: 19 VDC to power supply voltage Current consumption: 5 mA or less
Switch output (Open collector)	NPN specification *2	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA) Max. applied voltage: 26.4 VDC	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA) Max. applied voltage: 26.4 VDC
	PNP specification *2	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA)	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA)
Function		High voltage abnormality detection (Ion generation stops when an abnormality is detected.), Output check	Auto balance, Maintenance detection, High voltage abnormality detection (Ion generation stops when an abnormality is detected.), Ion generation stop, and Output check
Effective static neutralization distance		50 to 200 mm	
Ambient temperature	Controller, High voltage power supply module	0 to 40 °C	
	Bar	0 to 50 °C	
Ambient humidity		35 to 80 %RH (No condensation)	
Material	Controller	Cover: ABS, Aluminum	Cover: ABS, Aluminum Switch: Silicone rubber
	High voltage power supply module		Cover: ABS, Aluminum
	Bar	Cover: ABS, PBT, Emitter: Tungsten High voltage cable: Silicone rubber, PVC	
IP enclosure	Controller	IP20	IP20
	High voltage power supply module		IP20
	Bar	IP40	
Standards		CE (EMC directive, RoHS directive), UKCA	

*1 Apply cathode or anode to DC.

*2 For the IZT44, NPN or PNP can be selected by wiring. For the IZT45, NPN or PNP can be selected by controller operation.

Weight

[g]

	Controller	High voltage power supply module
IZT44	440	
IZT45	220	690

[g]

Bar length [mm]		200	260	320	380	440	500	560	620	680	740	920	1280
IZT44 IZT45 (Common for bars)	High voltage cable (1 m)	250	275	305	330	360	385	415	440	470	495	575	740
	High voltage cable (2 m)	365	395	420	450	475	500	530	555	585	610	690	855
	High voltage cable (3 m)	480	510	535	565	590	620	645	670	700	725	810	970

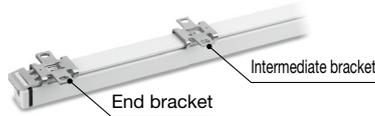
AC Adapter (Sold Separately)

Model	IZT44-CG2, IZT45-CG2
Input voltage	100 to 240 VAC, 50/60 Hz
Output current	1.9 A
Ambient temperature	0 to 40 °C
Ambient humidity	35 to 65 %RH (No condensation)
Weight	200 g (IZT4□-CG2)
Standards/Directive	CE/UKCA, UL, CSA

Accessories (for Individual Parts)

Bar bracket

IZT44 - B E



• **Bar bracket**

Symbol	Type
E	End bracket
M	Intermediate bracket

DIN rail mounting bracket for IZT44 Controller with High voltage power supply

IZT44 - B1



DIN rail mounting bracket for IZT45 Controller and High voltage power supply module

IZT40 - B 1

• **DIN rail mounting bracket**

Symbol	Type
1	For Controller
2	For High voltage power supply module



IZT40-B1



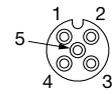
IZT40-B2

Power supply cable

IZT44 - CP 3



Power supply cable for IZT44

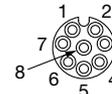


Socket connector pin assignment A-coded (Normal key)

IZT45 - CP 3



Power supply cable for IZT45



Socket connector pin assignment A-coded (Normal key)

• **Power supply cable length**

Symbol	Cable length [m]
3	3
5	5
10	10

High voltage cable holder

IZT40 - E 1

• **High voltage cable holder**

Symbol	Type
1	Straight
2	Elbow

Straight



IZT40-E1

Elbow



IZT40-E2

Accessories Sold Separately

Branch cable

IZT44 - A001



* Use in combination with the IZTB44-□-N-□.

High voltage cable assembly

IZT43 - A002 - 1



• **High voltage cable length**

Symbol	Cable length [m]
1	1
2	2
3	3

AC adapter

IZT44 - CG 2EU

IZT45 - CG 2EU



AC adapter

• **AC cord selection**

Symbol	Type
2EU	With AC cable
2	Without AC cable

* The external input/output function cannot be used when an AC adapter is being used.

Separate cable (For IZT45)

IZT40 - CF 1



• **Separate cable length**

Symbol	Cable length [m]
1	1
2	2
3	3

Maintenance Parts

Cleaning kit

IZT44 - M3

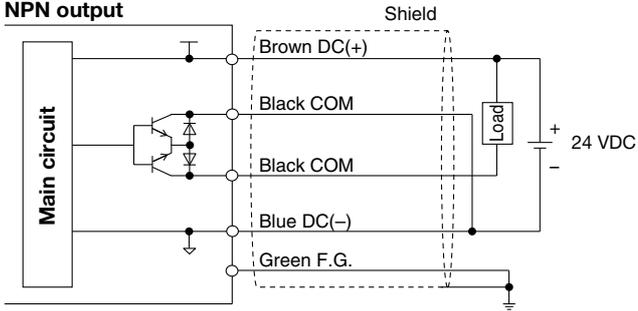


IZT44/45 Series

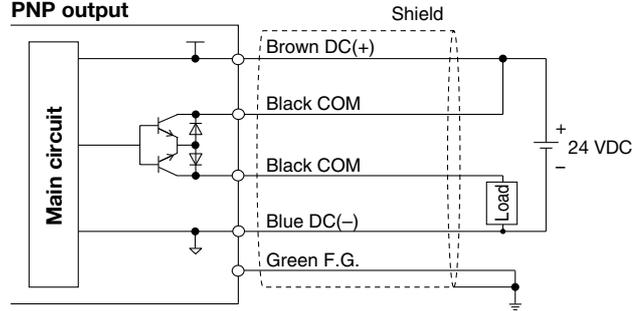
Wiring Circuit/IZT44, IZT45

IZT44

NPN output

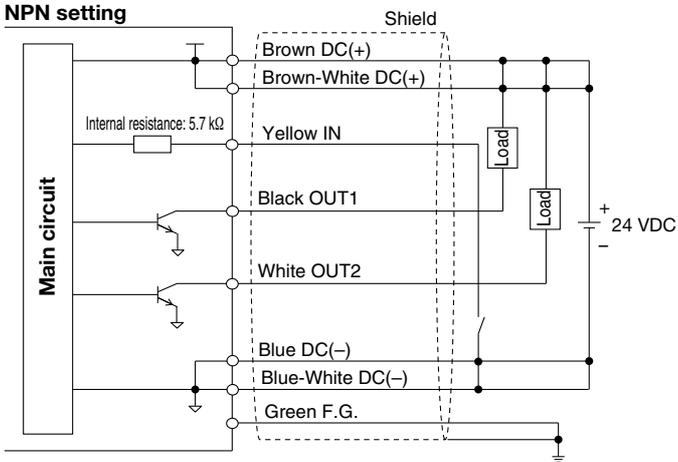


PNP output

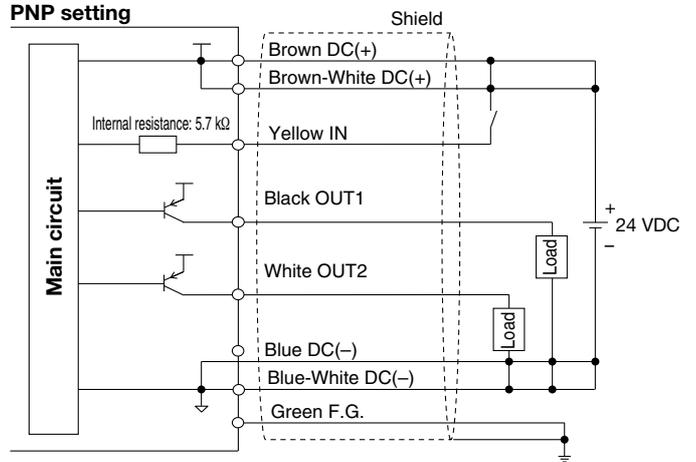


IZT45

NPN setting

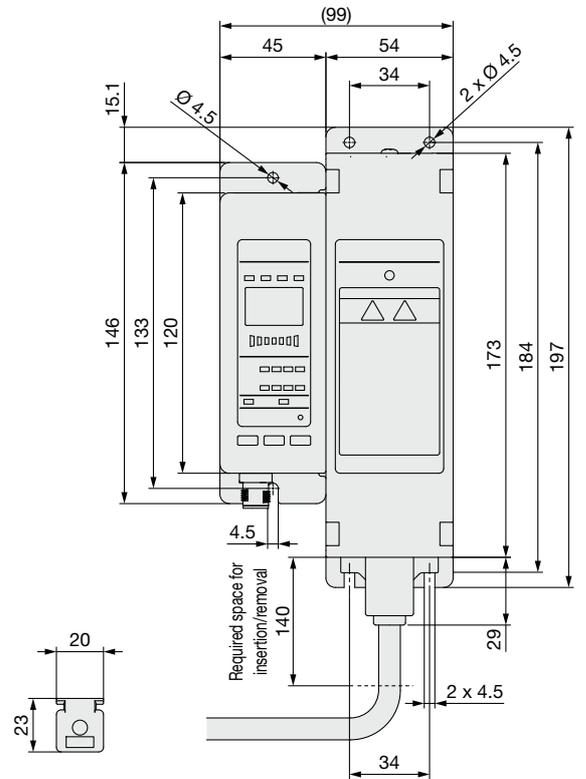
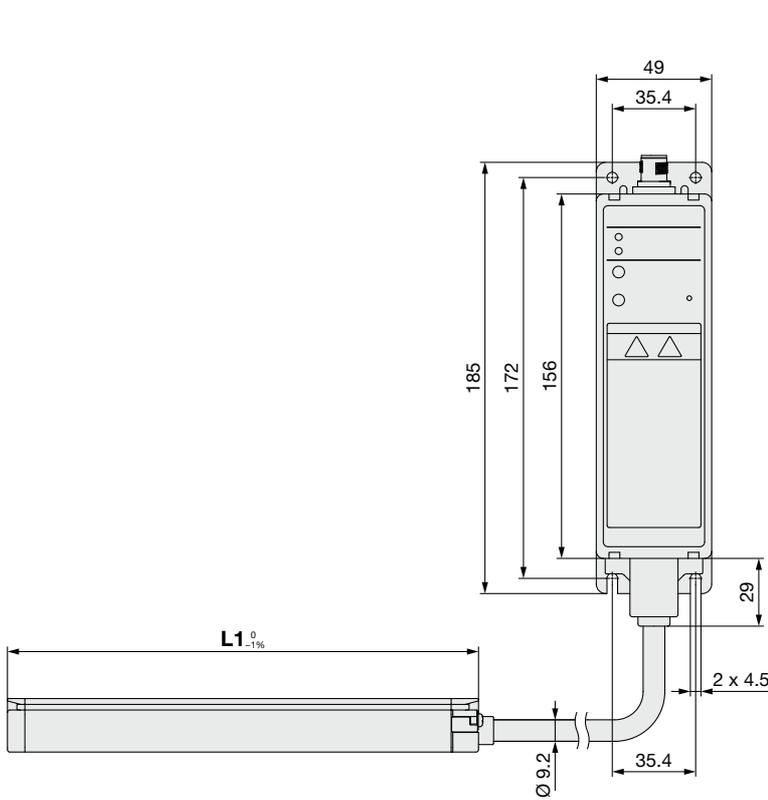
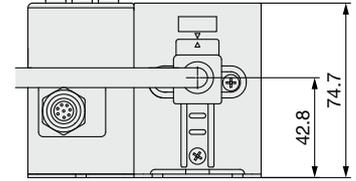
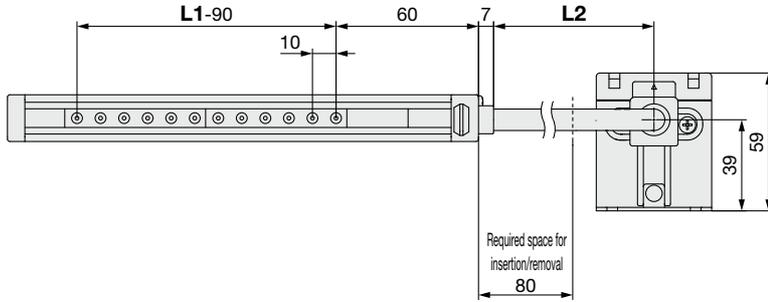


PNP setting



Dimensions

Ionizer / IZT44, IZT45



Bar Length L1

Model	L1 ⁰ _{-1%} [mm]
IZT□-20	200
IZT□-26	260
IZT□-32	320
IZT□-38	380
IZT□-44	440
IZT□-50	500
IZT□-56	560
IZT□-62	620
IZT□-68	680
IZT□-74	740
IZT□-92	920
IZT□-128	1280

High Voltage Cable Length L2

Model	L2 [mm]
IZT□-□-1	1000
IZT□-□-2	2000
IZT□-□-3	3000

IZT44 Ion Generation Frequency

Switch no.	Frequency [Hz]
0	1
1	3
2	5
3	8
4	10
5	15
6	20
7	30
8	DC +
9	DC -

IZT45 Ion Generation Frequency

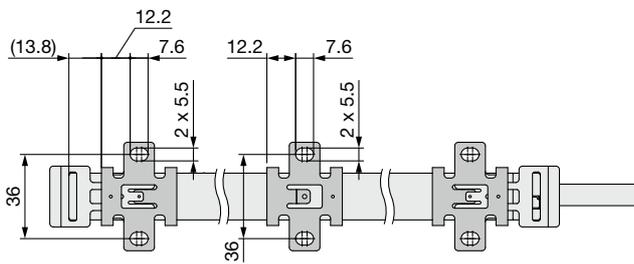
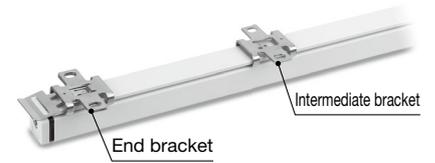
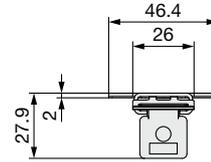
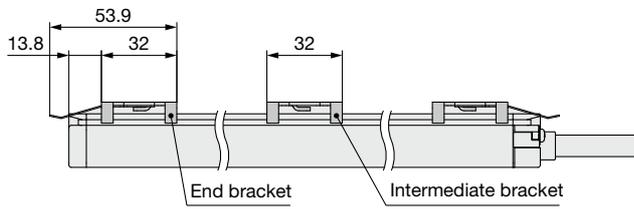
Frequency display	Frequency [Hz]
1	1
3	3
5	5
8	8
10	10
15	15
20	20
30	30
d P	DC+
d n	DC-

IZT44/45 Series

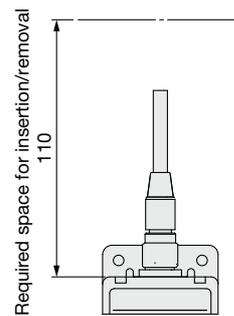
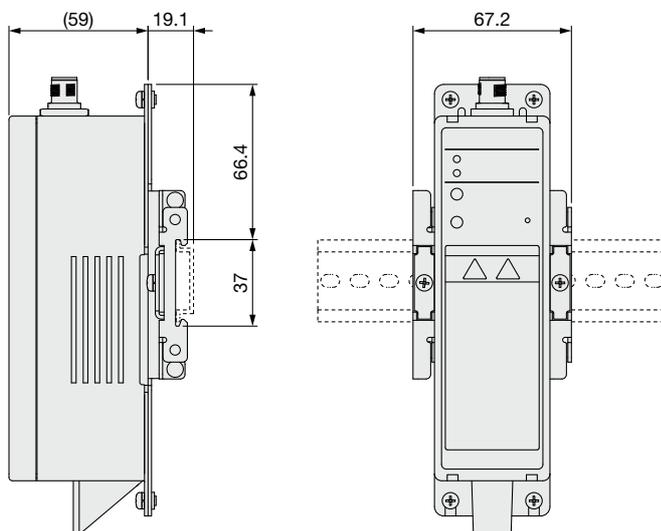
Dimensions

End bracket / IZT44-BE

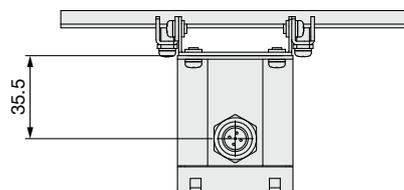
Intermediate bracket / IZT44-BM



DIN rail mounting bracket for IZTC44 / IZT44-B1

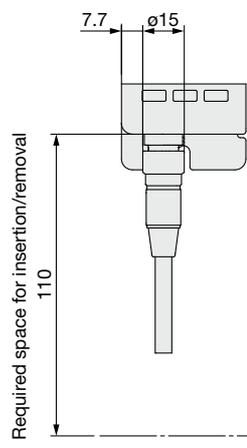
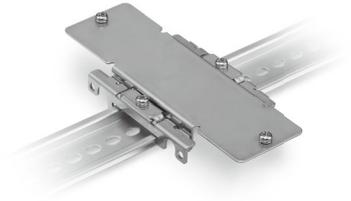
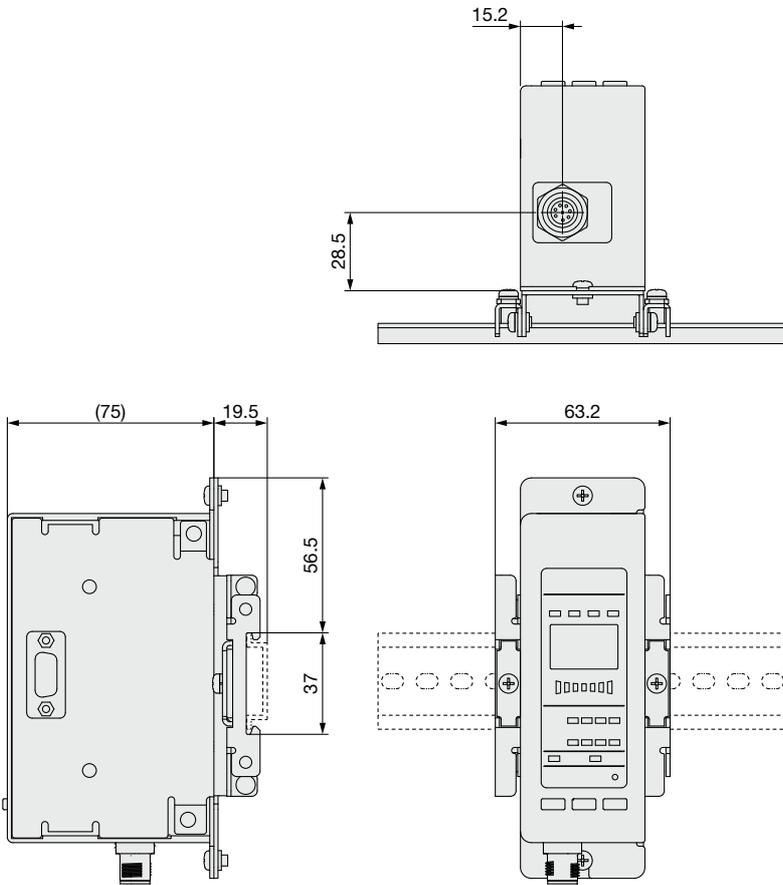


When a power supply cable is inserted



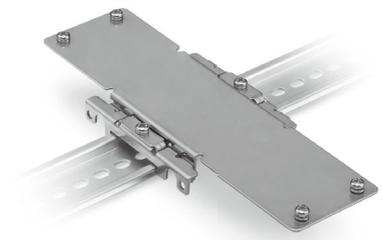
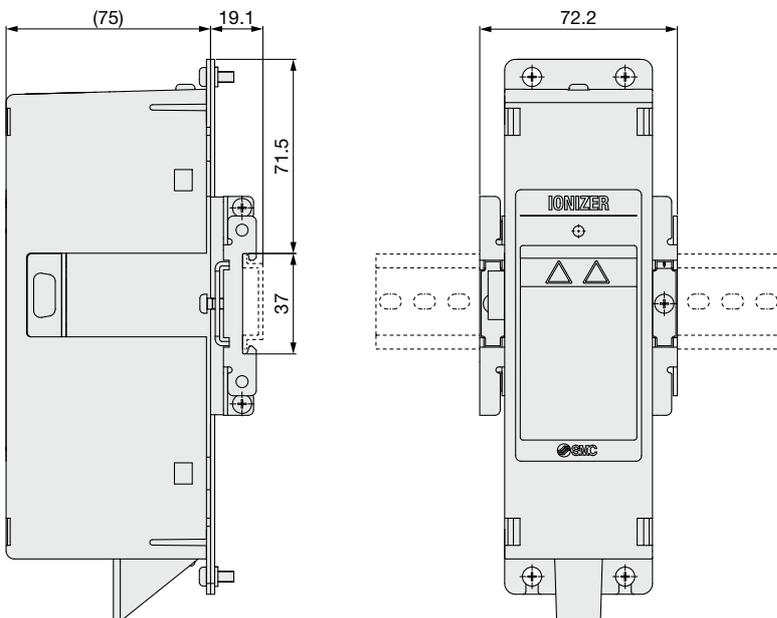
Dimensions

DIN rail mounting bracket for IZTC45 / IZT40-B1



When a power supply cable is inserted

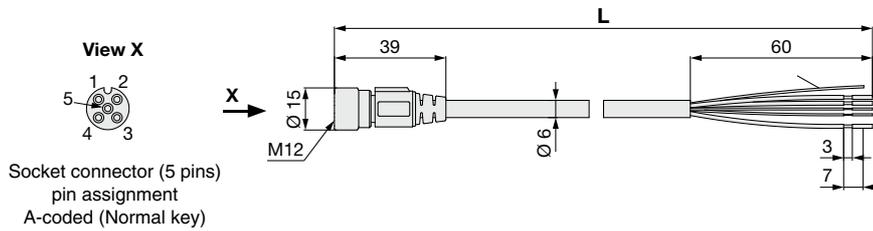
DIN rail mounting bracket for IZTP4□(-L) (IZT40-B2)



IZT44/45 Series

Dimensions

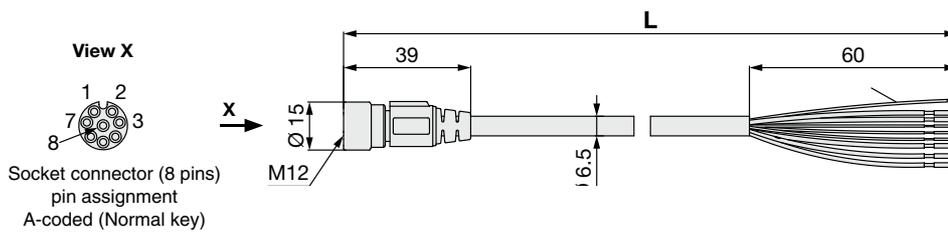
Power supply cable / IZT44-CP□



Power supply cable length L

Model	L [mm]
IZT44-CP3	3000
IZT44-CP5	5000
IZT44-CP10	10000

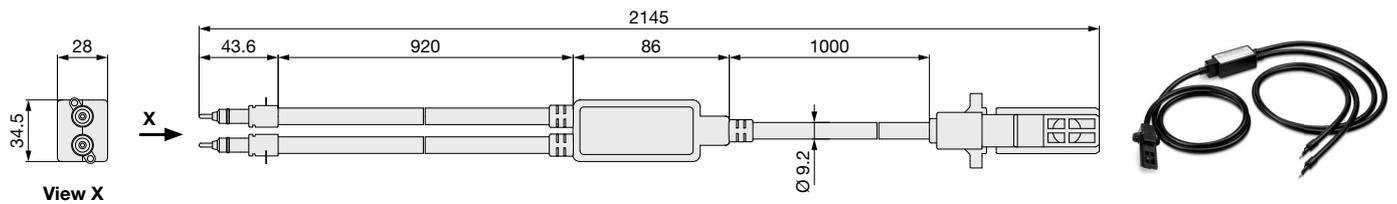
Power supply cable / IZT45-CP□



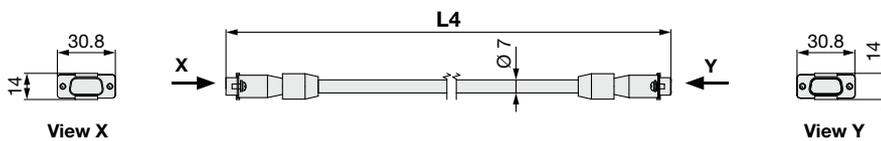
Power supply cable length L

Model	L [mm]
IZT45-CP3	3000
IZT45-CP5	5000
IZT45-CP10	10000

Branch cable / IZT44-A001



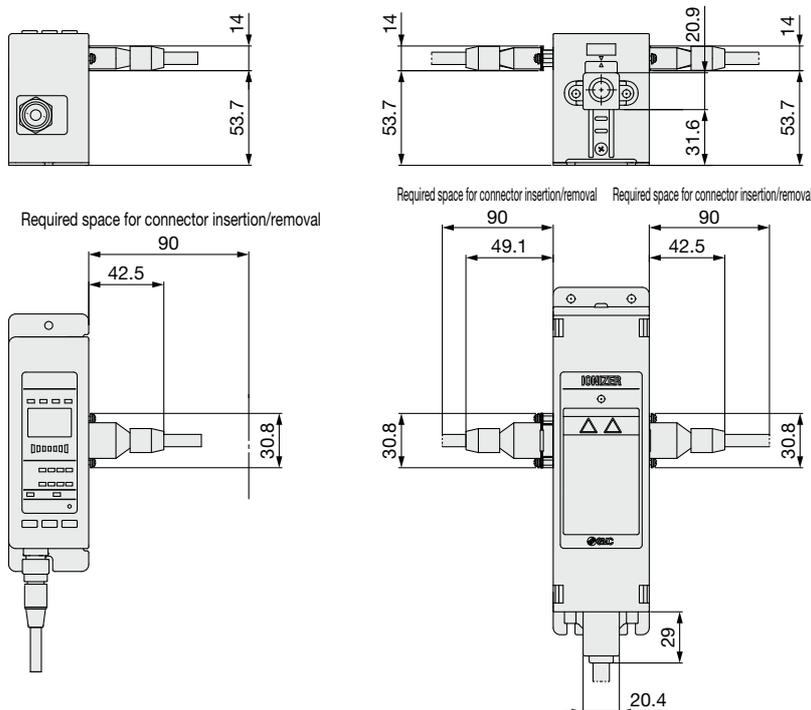
Separate cable / IZT40-CF□



Cable Length L4

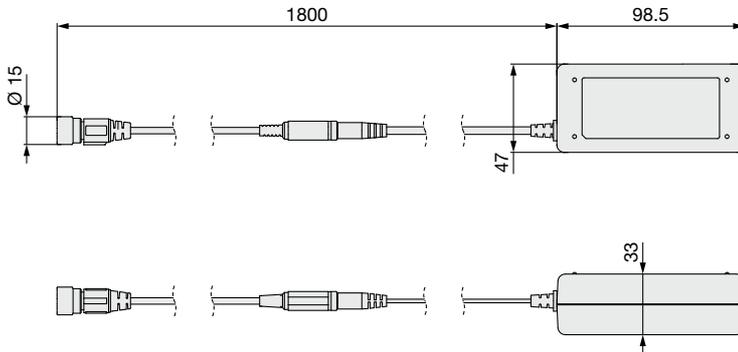
Model	L4 [mm]
IZT40-CF1	1000
IZT40-CF2	2000
IZT40-CF3	3000

When a separate cable is used



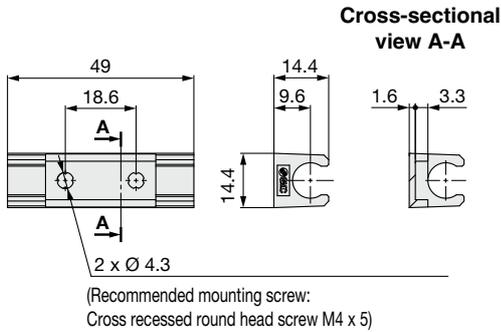
Dimensions

AC adapter: IZT44-CG2, IZT45-CG2

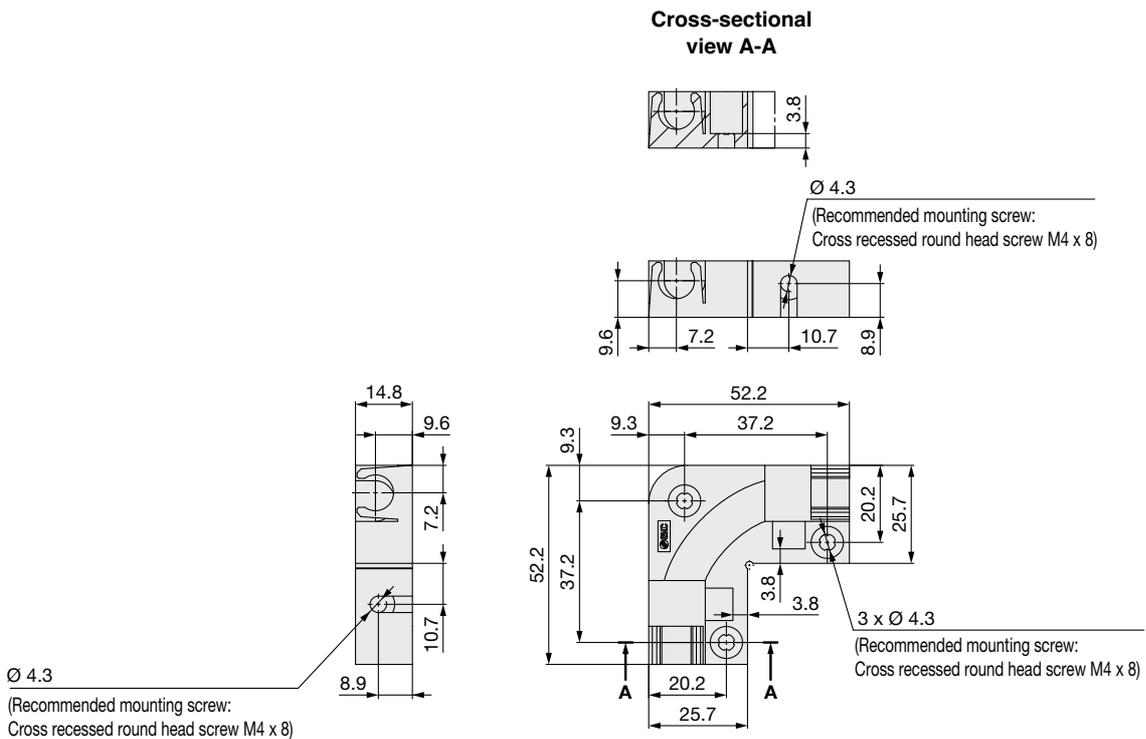


High voltage cable holder

Straight IZT40-E1



Elbow IZT40-E2



Compatibility with the Existing Products

Combinations available

Ion generation unit	Controller	Controller					High voltage power supply module				
		IZTC40	IZTC41	IZTC41-L	IZTC44	IZTC45	IZTP40	IZTP41	IZTP43	IZTP41-L	IZTP43-L
Slim bar 	IZTB44	○					○				
	IZTB44		○					○			
	IZTB44			○						○	
	IZTB44				○						○
	IZTB44					○					○
Bar (with air purge) 	IZTB40	○					○				
	IZTB40		○					○			
	IZTB40			○						○	
	IZTB40				○						○
	IZTB40					○					○
Nozzle 	IZTN43		○						○		
	IZTN43			○							○
	IZTN43					○					○

Combination example 1 When using the slim bar IZTB44 with IO-Link

Bar	Controller	High voltage power supply module
IZTB44	IZTC41-L	IZTP41-L
		

Combination example 2 When using the bar IZTB40 (with air purge) with M12 power supply cable

Bar	Controller with High voltage power supply	Bar	Controller	High voltage power supply module
IZTB40	IZTC44	IZTB40	IZTC45	IZTP41-L
				

Combination example 3 When using the nozzle IZTN43 with M12 power supply cable

Nozzle	Controller	High voltage power supply module
IZTN43	IZTC45	IZTP43-L
		

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ¹⁾, and other safety regulations.

Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Caution:

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

- 1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.
- ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
- IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
- ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
- etc.

Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries. Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. ²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

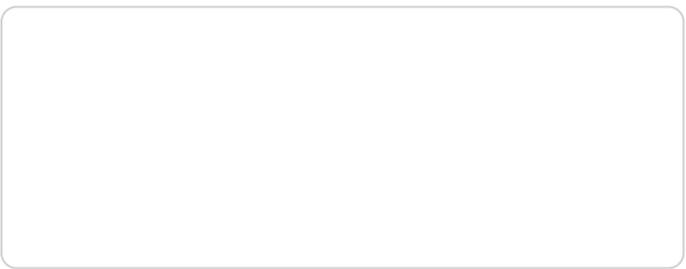
1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

SMC Corporation (Europe)

Austria	+43 (0)2262622800	www.smc.at	office@smc.at
Belgium	+32 (0)33551464	www.smc.be	info@smc.be
Bulgaria	+359 (0)2807670	www.smc.bg	office@smc.bg
Croatia	+385 (0)13707288	www.smc.hr	office@smc.hr
Czech Republic	+420 541424611	www.smc.cz	office@smc.cz
Denmark	+45 70252900	www.smc.dk.com	smc@smcdk.com
Estonia	+372 651 0370	www.smcee.ee	info@smcee.ee
Finland	+358 207513513	www.smc.fi	smc.fi@smc.fi
France	+33 (0)164761000	www.smc-france.fr	supportclient@smc-france.fr
Germany	+49 (0)61034020	www.smc.de	info@smc.de
Greece	+30 210 2717265	www.smchellas.gr	sales@smchellas.gr
Hungary	+36 23513000	www.smc.hu	office@smc.hu
Ireland	+353 (0)14039000	www.smcautomation.ie	sales@smcautomation.ie
Italy	+39 03990691	www.smcitalia.it	mailbox@smcitalia.it
Latvia	+371 67817700	www.smc.lv	info@smc.lv



Lithuania	+370 5 2308118	www.smclt.lt	info@smclt.lt
Netherlands	+31 (0)205318888	www.smc.nl	info@smc.nl
Norway	+47 67129020	www.smc-norge.no	post@smc-norge.no
Poland	+48 222119600	www.smc.pl	sales@smc.pl
Portugal	+351 214724500	www.smc.eu	apoioclientept@smc.smces.es
Romania	+40 213205111	www.smcromania.ro	smcromania@smcromania.ro
Russia	+7 (812)3036600	www.smc.eu	sales@smcru.com
Slovakia	+421 (0)413213212	www.smc.sk	office@smc.sk
Slovenia	+386 (0)73885412	www.smc.si	office@smc.si
Spain	+34 945184100	www.smc.eu	post@smc.smces.es
Sweden	+46 (0)86031240	www.smc.nu	smc@smc.nu
Switzerland	+41 (0)523963131	www.smc.ch	info@smc.ch
Turkey	+90 212 489 0 440	www.smcturkey.com.tr	info@smcturkey.com.tr
UK	+44 (0)845 121 5122	www.smc.uk	sales@smc.uk
South Africa	+27 10 900 1233	www.smcza.co.za	zasales@smcza.co.za