Ionizer
IZS40/41/42-X516 *Series*

How to Order

Dual AC type

Feedback sensor type

Standard type

Type 40	IZS	**40**	–	**1600**			–	**10**	**B**	–	**X516**
Type 41, 42	IZS	**42**	–	**1600**			–	**10**	**B**	–	**X516**

Bar type ●

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries
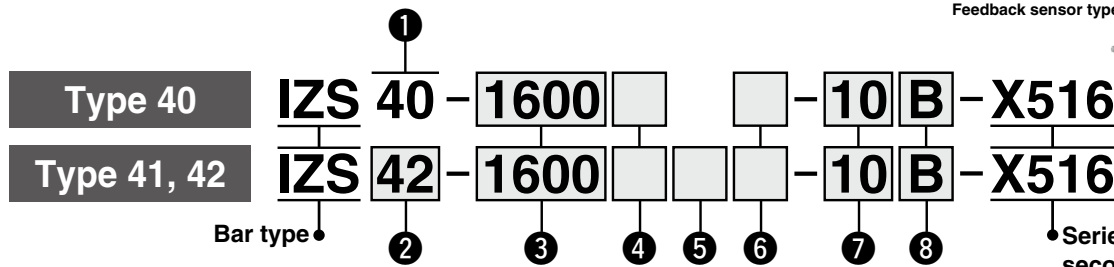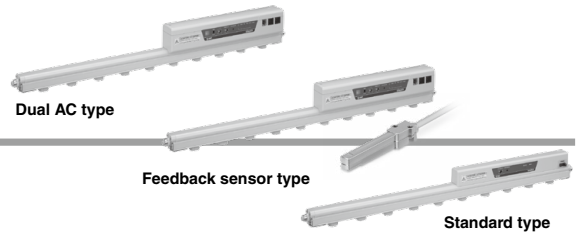
❶ Type

40	Standard type

❹ Emitter cartridge type/Emitter material

Symbol	Emitter cartridge type	Emitter material
Nil	High speed static	Tungsten
C	neutralization cartridge	Silicon
J	Energy saving static	Tungsten
K	neutralization cartridge	Silicon
V	Energy saving high-	Tungsten
S	efficiency cartridge	Silicon

❼ One-touch fitting

06	ø6 One-touch fitting
08	ø8 One-touch fitting
10	ø10 One-touch fitting

∗ Refer to the recommended piping port size in the table on the right for selecting a One-touch fitting.
∗ Please order a plug (part no.: KQ2P-□) separately if the product is to be used with piping only on one side.
∗ The One-touch fitting cannot be changed after the delivery of the product.

❽ Bracket

Symbol	Bracket
Nil	Without bracket
B	With bracket

∗ The number of intermediate brackets differ depending on the bar length. (Refer to the table below.)

Number of brackets

Bar length symbol	End bracket	Intermediate bracket
340 to 760		None
820 to 1600	2	1
1660 to 2380		2
2440 to 2500		3

❷ Type

41	Feedback sensor type
42	Dual AC type

❺ Input/Output

Nil	NPN
P	PNP

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

❻ Power supply cable

Nil	With power supply cable (3 m)
Z	With power supply cable (10 m)
N	Without power supply cable

∗ When only an e-con connector for the IZS40 is required, specify "N," and order the part (Model: ZS-28-C) separately.
∗ To use with an AC adapter, specify "N," and select the AC adapter on page 35 which is sold separately. (A cord is attached to the AC adapter.)

❸ Bar length

Symbol	Bar length [mm]	Symbol	Bar length [mm]
340	340	**1120**	1120
400	400	**1300**	1300
460	460	**1600**	1600
580	580	**1900**	1900
640	640	**2320**	2320
820	820	**2500**	2500

Recommended piping port size for the IZS4□
High speed static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length symbol											
		340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
06	ø6 mm	○	○	○	○	○	●	●	●	—	—	—	—
08	ø8 mm	○	○	○	○	○	○	○	○	●	●	●	●
10	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side　●: With piping on both sides　—: Unrecommended piping

Energy saving static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length symbol											
		340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
06	ø6 mm	○	○	○	○	○	○	○	○	●	●	●	●
08	ø8 mm	○	○	○	○	○	○	○	○	○	○	○	○
10	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side　●: With piping on both sides

Energy saving high-efficiency cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length symbol											
		340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
06	ø6 mm	○	○	○	○	○	○	○	○	○	○	○	○
08	ø8 mm	○	○	○	○	○	○	○	○	○	○	○	○
10	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side

∗ The piping port of this product has been changed to a One-touch fitting.
　Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

SMC

Accessories (for Individual Parts)

Power supply cable
· **IZS40-CP (3 m)**   · **IZS41-CP (3 m)**
· **IZS40-CPZ (10 m)** · **IZS41-CPZ (10 m)**

For IZS40

For IZS41, 42

Made to Order

How to Order

IZS☐ – CP☐ – X13

Type

40	For IZS40
41	For IZS41, 42

Model with made-to-order power supply cable
Available in 1 m increments from 1 m to 20 m
∗ Power cables 11 m or longer are not CE Marking-compliant.
∗ Use standard power supply cables for 3 m and 10 m lengths.

● **Power supply cable full length**

Symbol	Cable full length
01	1 m
02	2 m
⋮	⋮
19	19 m
20	20 m

High speed static neutralization cartridge
· **IZS40-NT (Emitter material: Tungsten)**
· **IZS40-NC (Emitter material: Silicon)**
Energy saving static neutralization cartridge
· **IZS40-NJ (Emitter material: Tungsten)**
· **IZS40-NK (Emitter material: Silicon)**
Energy saving high-efficiency cartridge
· **IZS40-NV (Emitter material: Tungsten)**
· **IZS40-NS (Emitter material: Silicon)**

Tungsten
(Emitter cartridge color: White)

Silicon
(Emitter cartridge color: Gray)

End bracket IZS40-BE

End bracket

∗ Ionizer mounting screws attached, M4 x 8, 2 pcs.

Intermediate bracket IZS40-BM

Intermediate bracket

∗ The number of intermediate brackets required, as listed below, depends on the bar length.
2 end brackets are always required regardless of the bar length.

Bar length symbol	End bracket	Intermediate bracket
340 to 760	With 2 pcs.	None
820 to 1600		With 1 pc.
1660 to 2380		With 2 pcs.
2440 to 2500		With 3 pcs.

∗ The model number is for a single bracket.

Accessories Sold Separately

Drop prevention cover

IZS40‒E 3

● **Number of fixed emitter cartridges**

IZS40-E3	3
IZS40-E4	4
IZS40-E5	5

Number of required drop prevention covers

Bar length symbol	Number of required drop prevention covers		
	IZS40-E3	IZS40-E4	IZS40-E5
340	—	—	1
400	2	—	—
460	1	1	—
580	—	1	1
640	—	—	2
820	1	—	2
1120	1	—	3
1300	2	—	3
1600	2	—	4
1900	2	—	5
2320	1	—	7
2500	2	—	7

Mounted part of emitter cartridge
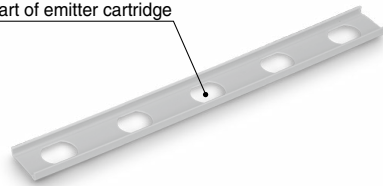
Drop prevention cover

When attached to the body

Remote controller IZS41-RC

AC adapter
For IZS40

IZF10‒C ☐

● **AC adapter**

G1	AC adapter + AC cord[1]
G2	AC adapter (Without AC cord)

*1 When "G1" is selected, an AC cord with a rated voltage of 125 V is included.
If using an input voltage exceeding 125 VAC, select "G2" (Without AC cord) and prepare a suitable AC cord separately.

For IZS40

For IZS41, 42

IZS41‒C ☐

● **AC adapter**

G1	AC adapter + AC cord[1]
G2	AC adapter (Without AC cord)

*1 When "G1" is selected, an AC cord with a rated voltage of 125 V is included.
If using an input voltage exceeding 125 VAC, select "G2" (Without AC cord) and prepare a suitable AC cord separately.
The external input/output function of the IZS41 and 42 cannot be used when an AC adapter is being used.

For IZS41, 42

Transition wiring cable

IZS41‒ CF ☐

● **Transition wiring cable**

02	Full length 2 m
05	Full length 5 m
08	Full length 8 m

Made to Order

How to Order

IZS41‒CF☐‒X13

● Transition wiring cable length

Model with made-to-order transition wiring cable
Available in 1 m increments from 1 m to 20 m
* Power cables 11 m or longer are not CE Marking-compliant.
* Use standard power supply cables for 2 m, 5 m, and 8 m lengths.
* Transition wiring is not available for the IZS40.

Symbol	Cable full length
01	1 m
03	3 m
⋮	⋮
19	19 m
20	20 m

Cleaning kit IZS30-M2

SMC

Separate Controller Bar Type Ionizer
IZT40/4□(-L)-X516

How to Order

Bar + **High voltage power supply module** + **Controller**

❶

IZT **40** – **34** **D** **1** **6H** **R** – **3** **F** **U** – **X516**

Transistor input/output
IZT **41** – **34** **D** **1** **6H** **R** – **3** **F** **U** – **X516**

❽ **❾**

IO-Link
IZT **41** – **34** **D** **1** **6H** **R** **L** – **T** **R** **F** **U** – **X516**

❷ **❸** **❹** **❺** **❻** **❼** **❿** **⓫** **⓬** **⓭**

● **Series compatible with secondary batteries**

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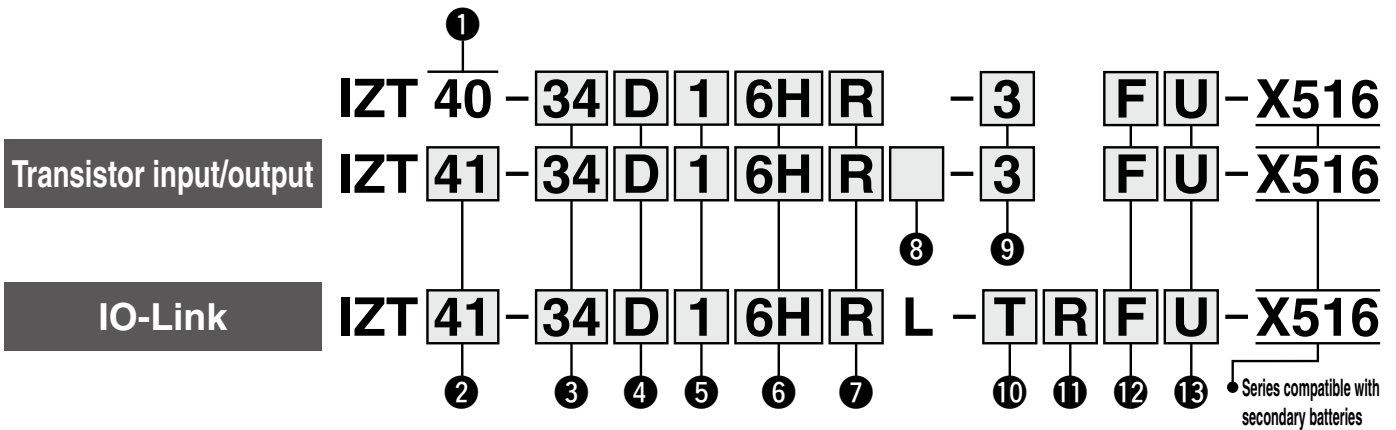
❶ Model

Symbol	Model
40	Standard type

❷ Model

Symbol	Model
41	AC type
42	Dual AC type

❺ High voltage cable length

Symbol	High voltage 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
⇨ Refer to page 285-8.

Symbol	IZT40		IZT41		IZT42	
	Straight	Elbow	Straight	Elbow	Straight	Elbow
1	1	1	1	1	2	2
2	2	1	2	1	4	2
3	3	1	3	1	6	2

❸ Bar length

Symbol	Length [mm]	Symbol	Length [mm]
16	160	82	820
22	220	112	1120
34	340	130	1300
40	400	160	1600
46	460	190	1900
58	580	232	2320
64	640	250	2500

❻ One-touch fitting

Symbol	Metric size
6H	ø6 Straight
8H	ø8 Straight
AH	ø10 Straight

∗ Refer to the recommended piping port size on the next page for selecting a One-touch fitting.

❹ Emitter cartridge type/Emitter material

Symbol	Type	Material
D	High speed static neutralization cartridge	Tungsten
E		Silicon
L	Energy saving static neutralization cartridge	Tungsten
M		Silicon
V	Energy saving high-efficiency cartridge	Tungsten
S		Silicon

❼ Plug position

Symbol	Plug position
Nil	Without plug
Q	High voltage cable side
R	Opposite side of the high voltage cable

❽ Input/Output

Symbol	Input/Output
Nil	NPN
P	PNP

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

∗ The piping port of this product has been changed to a One-touch fitting.
Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

⊗SMC

Dual AC type　　**AC type**　　**Standard type**

❾ Power supply cable length

Symbol	Length [m]
3	3
5	5
10	10
15	15
N	None

∗ To use an AC adapter, specify "N", and select the AC adapter sold separately.

❿ Power supply cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
J	Straight	3
K	Straight	5
M	Straight	10
S	Angled	3
T	Angled	5
Z	Angled	10

⓫ Communication cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
E	Straight	0.5
G	Straight	1
H	Straight	2
J	Straight	3
K	Straight	5
M	Straight	10
P	Angled	0.5
Q	Angled	1
R	Angled	2
S	Angled	3
T	Angled	5
Z	Angled	10

⓬ Bar bracket ⇨ Refer to page 285-8.

Symbol	Type
Nil	Without bracket
B	With bracket 1
F	With bracket 2

∗ The number of intermediate brackets differs depending on the bar length. (Refer to the table below.)

Number of brackets

Bar length [mm]	End bracket	Intermediate bracket
160 to 760	2	None
820 to 1600	2	1
1660 to 2380	2	2
2440 to 2500	2	3

⓭ DIN rail mounting bracket for controller and high voltage power supply module
⇨ Refer to page 285-8.

Symbol	For controller	For high voltage power supply module
Nil	None	None
U	Included	Included
W	Included	None
Y	None	Included

Recommended piping port size for the IZT4□
High speed static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D. [mm]	160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6	○	○	○	○	○	○	●	●	●	—	—	—	—	—
8H	ø8	○	○	○	○	○	○	○	○	●	●	●	●	—	—
AH	ø10	○	○	○	○	○	○	○	○	○	○	○	●	●	●

○: With piping only on one side　●: With piping on both sides　—: Unrecommended piping

Energy saving static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D. [mm]	160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6	○	○	○	○	○	○	○	○	○	●	●	●	●	—
8H	ø8	○	○	○	○	○	○	○	○	○	○	○	○	●	●
AH	ø10	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side　●: With piping on both sides　—: Unrecommended piping
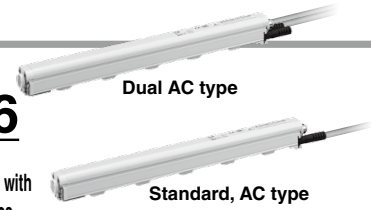
Energy saving high-efficiency cartridge

One-touch fitting symbol	Applicable tubing O.D. [mm]	160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6	○	○	○	○	○	○	○	○	○	○	○	○	○	○
8H	ø8	○	○	○	○	○	○	○	○	○	○	○	○	○	○
AH	ø10	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side

IZT40/4□(-L)-X516

How to Order

Bar | IZTB **40** – **16** **D** **1** **6H** **R** – **F** –**X516**

❶ ❷ ❸ ❹ ❺ ❻ ❼

● Series compatible with secondary batteries

Dual AC type
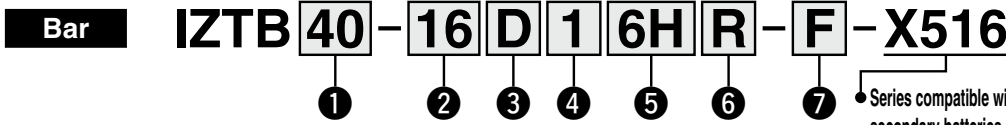
Standard, AC type

❶ Model

Symbol	Model
40	Standard type (For IZT40), AC type (For IZT41)
42	Dual AC type (For IZT42)

❷ Bar length

Symbol	Length [mm]	Symbol	Length [mm]
16	160	82	820
22	220	112	1120
34	340	130	1300
40	400	160	1600
46	460	190	1900
58	580	232	2320
64	640	250	2500

❸ Emitter cartridge type

Symbol	Type	Material
D	High speed static neutralization cartridge	Tungsten
E		Silicon
L	Energy saving static neutralization cartridge	Tungsten
M		Silicon
V	Energy saving high-efficiency cartridge	Tungsten
S		Silicon

❹ High voltage cable length

Symbol	High voltage 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
⇨ Refer to page 77.

Symbol	IZT40		IZT41		IZT42	
	Straight	Elbow	Straight	Elbow	Straight	Elbow
1	1	1	1	1	2	2
2	2	1	2	1	4	2
3	3	1	3	1	6	2

❺ One-touch fitting

Symbol	Metric size
6H	ø6 Straight
8H	ø8 Straight
AH	ø10 Straight

∗ Refer to the table below for selecting a One-touch fitting.
∗ The position of the One-touch fitting and the plug cannot be changed after the delivery of the product.

❻ Plug position

Symbol	Position
Nil	Without plug
Q	High voltage cable side
R	Opposite side of the high voltage cable

❼ Bar bracket ⇨ Refer to page 285-8.

Symbol	Type
Nil	Without bracket
B	With bracket 1
F	With bracket 2

∗ The number of intermediate brackets differs depending on the bar length. (Refer to the table below.)

Number of brackets

Bar length	End bracket	Intermediate bracket
160 to 760		None
820 to 1600	2	1
1660 to 2380		2
2440 to 2500		3

Recommended piping port size for the IZT4□
High speed static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length [mm]													
		160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6 mm	○	○	○	○	○	○	●	●	●	—	—	—	—	—
8H	ø8 mm	○	○	○	○	○	○	○	○	●	●	●	●	—	—
AH	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	●	●	●

○: With piping only on one side   ●: With piping on both sides   —: Unrecommended piping

Energy saving static neutralization cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length [mm]													
		160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6 mm	○	○	○	○	○	○	○	○	○	●	●	●	●	—
8H	ø8 mm	○	○	○	○	○	○	○	○	○	○	○	○	●	●
AH	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side   ●: With piping on both sides   —: Unrecommended piping

Energy saving high-efficiency cartridge

One-touch fitting symbol	Applicable tubing O.D.	Bar length [mm]													
		160	220	340	400	460	580	640	820	1120	1300	1600	1900	2320	2500
6H	ø6 mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○
8H	ø8 mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○
AH	ø10 mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○: With piping only on one side

∗ The piping port of this product has been changed to a One-touch fitting.
Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

SMC

Individual Parts Combinations

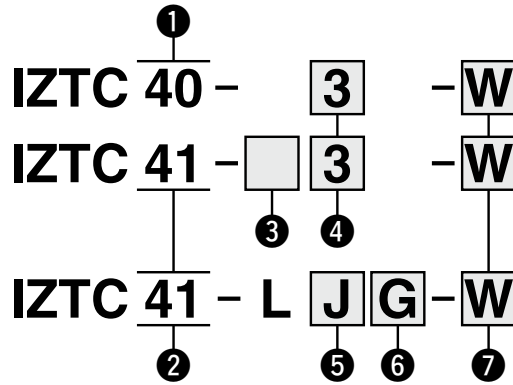|	Bar/**IZTB**		High voltage power supply module/**IZTP**			Controller/**IZTC**	
	40	42	40	41	42	40	41
IZT40	●		●			●	
IZT41	●			●			●
IZT42		●			●		●

⚠ **Caution**

The transistor input/output specification and the IO-Link specification cannot be installed in combination.

Controller

❶

IZTC 40 – 3 – W

Transistor input/output

IZTC 41 – ☐ 3 – W

❸ ❹

IO-Link

IZTC 41 – L J G – W

❷ ❺ ❻ ❼

Transistor input/output

Standard type | AC, Dual AC type | IO-Link

❶ Model

Symbol	Model
40	Standard type

❷ Model

Symbol	Model
41	AC type, Dual AC type

❸ Input/Output

Symbol	Input/Output
Nil	NPN
P	PNP

❹ Power supply cable length

Symbol	Length [m]
3	3
5	5
10	10
15	15
N	None

❺ Power supply cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
J	Straight	3
K	Straight	5
M	Straight	10
S	Angled	3
T	Angled	5
Z	Angled	10

❻ Communication cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
E	Straight	0.5
G	Straight	1
H	Straight	2
J	Straight	3
K	Straight	5
M	Straight	10
P	Angled	0.5
Q	Angled	1
R	Angled	2
S	Angled	3
T	Angled	5
Z	Angled	10

❼ DIN rail mounting bracket
⇨ Refer to page 285-8.

Symbol	Type
Nil	None
W	Included

High voltage power supply module

Transistor input/output

IZTP 41 – Y

❶

IO-Link

IZTP 41 – L – Y

❷ ❸

Standard, AC type | Dual AC type

❶ Model

Symbol	Model
40	Standard type (For Bar)
41	AC type (For Bar)
42	Dual AC type (For Bar)
43	AC type (For Nozzle)

❷ Model

Symbol	Model
41	AC type (For Bar)
42	Dual AC type (For Bar)
43	AC type (For Nozzle)

❸ DIN rail mounting bracket
⇨ Refer to page 285-8.

Symbol	Type
Nil	None
Y	Included

IZT40/4☐(-L)-X516

Accessories (for Individual Parts)

Emitter cartridge (IZT40, 41(-L), 42(-L)-X516)

IZT40 – N D

High speed static neutralization

Energy saving static neutralization

● Emitter cartridge type/Emitter material

Symbol	Type	Material
D	High speed static	Tungsten
E	neutralization cartridge	Silicon
L	Energy saving static	Tungsten
M	neutralization cartridge	Silicon

Cartridge color	Emitter material
White	Tungsten
Gray	Silicon

IZS40 – N V

Energy saving high-efficiency

● Emitter cartridge type/Emitter material

Symbol	Type	Material
V	Energy saving	Tungsten
S	high-efficiency cartridge	Silicon

Cartridge color	Emitter material
White	Tungsten
Gray	Silicon

Bar bracket (IZT40, 41(-L), 42(-L)-X516)

IZT40 – B E1

● Bar bracket

Symbol	Type
E1	End bracket 1
E2	End bracket 2
M1	Intermediate bracket 1
M2	Intermediate bracket 2

∗ Refer to the table below for selecting a bracket.

Bracket combinations

	Intermediate bracket 1	Intermediate bracket 2
End bracket 1	○ (Adjustment angle ±90°)	×
End bracket 2	×	○ (Adjustment angle ±15°)

○: Available ×: Not available

∗ The number of intermediate brackets required, as listed below, depends on the bar length.
  2 end brackets are always required regardless of the bar length.

Number of brackets

Bar length	End bracket	Intermediate bracket
160 to 760		None
820 to 1600	2	1
1660 to 2380		2
2440 to 2500		3

IZT40-BE1
End bracket 1

IZT40-BM1
Intermediate bracket 1

IZT40-BM2
Intermediate bracket 2

IZT40-BE2
End bracket 2

Power supply cable (IZT40, 41, 42-X516)

IZT40 – CP 3

Cable specifications
⇨ Refer to the **Web Catalog**.

● Power supply cable length

Symbol	Length [m]
3	3
5	5
10	10
15	15

IO-Link power supply cable (IZT41-L, 42-L-X516)

IZT41 – CP J

● Power supply cable entry direction/length

Symbol	Entry direction	Length [m]
J		3
K	Straight	5
M		10
S		3
T	Angled	5
Z		10

IO-Link communication cable (IZT41-L, 42-L-X516)

IZT41 – CE G

● Communication cable entry direction/length

Symbol	Entry direction	Length [m]
E		0.5
G		1
H		2
J	Straight	3
K		5
M		10
P		0.5
Q		1
R		2
S	Angled	3
T		5
Z		10

DIN rail mounting bracket for 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
3	For High voltage power supply module for IZT42

For Controller

IZT40-B1

For High voltage power supply module

IZT40-B2

For IZTP42

IZT40-B3

High voltage cable holder

IZT40 – E 1

● High voltage cable holder

Symbol	Type
1	Straight
2	Elbow

Straight

IZT40-E1

Elbow

IZT40-E2

SMC

Accessories Sold Separately

Drop prevention cover (IZT40, 41(-L), 42(-L)-X516)

IZS40 – E 2

● **Number of fixed emitter cartridges**

Symbol	Type
2	2 pcs.
3	3 pcs.
4	4 pcs.
5	5 pcs.

Standard bar length

Bar length symbol	Number of required drop prevention covers			
	IZS40-E2	IZS40-E3	IZS40-E4	IZS40-E5
16	1	—	—	—
22	—	1	—	—
34	—	—	—	1
40	—	2	—	—
46	—	1	1	—
58	—	—	1	1
64	—	—	—	2
82	—	1	—	2
112	—	1	—	3
130	—	2	—	3
160	—	2	—	4
190	—	2	—	5
232	—	1	—	7
250	—	2	—	7

Mounted part of emitter cartridge
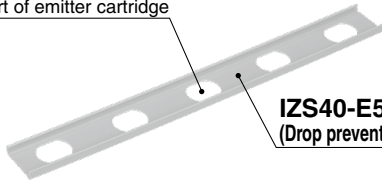
IZS40-E5
(Drop prevention cover for 5 pcs.)

Drop prevention cover

When attached to the body
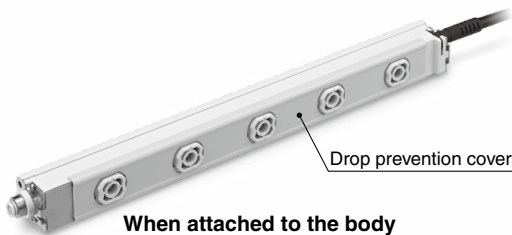
AC adapter (IZT40, 41, 42-X516)

IZT40 – CG 1

● **AC cord selection**

Symbol	Type
1	With AC cord
2	Without AC cord

∗ An AC cord is only for use in Japan. (Rated voltage 125 V, Plug JIS C 8303, Inlet IEC 60320-C6) The external input/output function cannot be used when an AC adapter is being used.
∗ Cannot be used for the IO-Link specification

AC adapter

Separate cable (IZT40, 41, 42-X516)

IZT40 – CF 1

● **Cable length**

Symbol	Length [m]
1	1
2	2
3	3

Cleaning kit (IZT40, 41, 42-X516)

IZS30 – M2

Replacement felt pad: IZS30-A0201
Replacement rubber grindstone: IZS30-A0202

Nozzle Type Ionizer
IZT43(-L)-X516 *Series*

High voltage power supply module
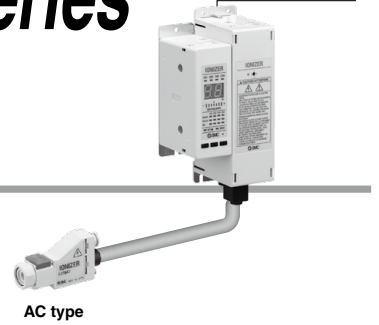
AC type

How to Order

Nozzle + **High voltage power supply module** + **Controller**

Transistor input/output

IZT 43 – D 1 6H ☐ – 3 F U – X516
                               ❺ ❻

IO-Link

IZT 43 – D 1 6H L – T R F U – X516
❶   ❷ ❸ ❹   ❼ ❽ ❾ ❿

● **Series compatible with secondary batteries**

❶ Model

Symbol	Model
43	AC type

❷ Emitter cartridge type

Symbol	Type
D	High speed static neutralization cartridge
L	Energy saving static neutralization cartridge

❸ High voltage cable length

Symbol	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

❹ One-touch fitting

Symbol	Metric size
6H	ø6 Straight

❺ Input/Output

Symbol	Input/Output
Nil	NPN
P	PNP

❻ Power supply cable length

Symbol	Length [m]
3	3
5	5
10	10
15	15
N	None

∗ To use an AC adapter, specify "N", and select the AC adapter sold separately.

❼ Power supply cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
J	Straight	3
K	Straight	5
M	Straight	10
S	Angled	3
T	Angled	5
Z	Angled	10

❽ Communication cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
E	Straight	0.5
G	Straight	1
H	Straight	2
J	Straight	3
K	Straight	5
M	Straight	10
P	Angled	0.5
Q	Angled	1
R	Angled	2
S	Angled	3
T	Angled	5
Z	Angled	10

❾ Nozzle bracket

Symbol	Type
Nil	Without bracket
B	L-bracket
F	Angle adjustment bracket

❿ DIN rail mounting bracket for controller and high voltage power supply module

Symbol	For Controller	For High voltage power supply module
Nil	None	None
U	Included	Included
W	Included	None
Y	None	Included

∗ The piping port of this product has been changed to a One-touch fitting. Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

⊗SMC

For Individual Parts

How to Order

AC type

Combinations

	Nozzle/**IZTN**	High voltage power supply module/**IZTP**	Controller/**IZTC**
	43	43	41
IZT43	●	●	●

Nozzle

IZTN 43 – D 1 6H – F
① ② ③ ④ ⑤

> ⚠ **Caution**
>
> The transistor input/output specification and the IO-Link specification cannot be installed in combination.

① **Model**

Symbol	Model
43	AC type

② **Emitter cartridge type**

Symbol	Type
D	High speed static neutralization cartridge
L	Energy saving static neutralization cartridge

∗ The piping port of this product has been changed to a One-touch fitting. Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

③ **High voltage cable length**

Symbol	High voltage 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	IZT43	
	Straight	Elbow
1	1	1
2	2	1
3	3	1

④ **One-touch fitting**

Symbol	Metric size
6H	ø6 Straight

⑤ **Nozzle bracket**

Symbol	Type
Nil	Without bracket
B	L-bracket
F	Angle adjustment bracket

Controller

Transistor input/output

IZTC 41 – ☐ 3 – W
② ③

IO-Link

IZTC 41 – L J G – W
① ④ ⑤ ⑥

Transistor input/output **IO-Link**

AC, Dual AC type

① **Model**

Symbol	Model
41	AC type, Dual AC type

② **Input/Output**

Symbol	Input/Output
Nil	NPN
P	PNP

③ **Power supply cable length**

Symbol	Length [m]
3	3
5	5
10	10
15	15
N	None

④ **Power supply cable entry direction/length**

Symbol	Entry direction	Length [m]
N	None	
J	Straight	3
K	Straight	5
M	Straight	10
S	Angled	3
T	Angled	5
Z	Angled	10

⑤ **Communication cable entry direction/length**

Symbol	Entry direction	Length [m]
N	None	
E	Straight	0.5
G	Straight	1
H	Straight	2
J	Straight	3
K	Straight	5
M	Straight	10
P	Angled	0.5
Q	Angled	1
R	Angled	2
S	Angled	3
T	Angled	5
Z	Angled	10

⑥ **DIN rail mounting bracket**

Symbol	Type
Nil	None
W	Included

High voltage power supply module

Transistor input/output

IZTP 43 – Y
① ②

IO-Link

IZTP 43 – L – Y
① ②

AC type

① **Model**

Symbol	Model
43	AC type (For Nozzle)

② **DIN rail mounting bracket**

Symbol	Type
Nil	None
Y	Included

IZT43(-L)-X516 *Series*

Accessories (for Individual Parts)

Emitter cartridge (For IZT43(-L))

IZT43 – N [D]

Emitter cartridge type/
Emitter material

Symbol	Type	Material
D	High speed static neutralization cartridge	Tungsten
L	Energy saving static neutralization cartridge	Tungsten

**Tungsten
(Color: White)**

Cartridge color	Emitter material
White	Tungsten

Nozzle bracket (For IZT43(-L))

IZT43 – B [L1]

Nozzle bracket

Symbol	Type
L1	L-bracket
L2	Angle adjustment bracket

IZT43-BL1
L-bracket

IZT43-BL2
Angle adjustment bracket
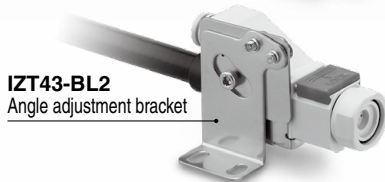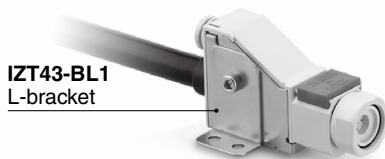
Power supply cable (IZT43)

IZT40 – CP [3]

Cable specifications
⇨ Refer to page 108.

Power supply cable length

Symbol	Length [m]
3	3
5	5
10	10
15	15

IO-Link power supply cable (IZT43-L)

IZT41 – CP [J]

Power supply cable entry direction/length

Symbol	Entry direction	Length [m]
J	Straight	3
K		5
M		10
S	Angled	3
T		5
Z		10

IO-Link communication cable (IZT43-L)

IZT41 – CE [G]

Communication cable entry direction/length

Symbol	Entry direction	Length [m]
E	Straight	0.5
G		1
H		2
J		3
K		5
M		10
P	Angled	0.5
Q		1
R		2
S		3
T		5
Z		10

DIN rail mounting bracket for 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

For Controller
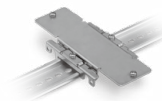
For High voltage power supply module
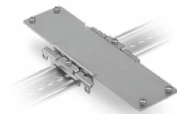
IZT40-B1

IZT40-B2

High voltage cable holder

IZT40 – E [1]

High voltage cable holder

Symbol	Type
1	Straight
2	Elbow

Straight

Elbow

IZT40-E1

IZT40-E2

SMC

Accessories Sold Separately

High voltage cable assembly (For IZT43(-L))

IZT43 – A002 – [1]

● **High voltage cable length**

Symbol	Length [m]
1	1
2	2
3	3

AC adapter (IZT43)

IZT40 – CG [1]

● **AC adapter**

Symbol	Type
1	With AC cord
2	Without AC cord

∗ An AC cord is only for use in Japan. (Rated voltage 125 V, Plug JIS C 8303, Inlet IEC 60320-C6) The external input/output function cannot be used when an AC adapter is being used.
∗ Cannot be used for the IO-Link specification

AC adapter

Separate cable (IZT43)

IZT40 – CF [1]

● **Cable length**

Symbol	Length [m]
1	1
2	2
3	3

Cleaning kit (For IZT43)

IZT43 – M2

Replacement felt pad: IZT43-A003
Replacement rubber grindstone: IZT43-A004

Nozzle Type Ionizer
IZN10E-X516 Series

Energy saving nozzle

High flow rate nozzle

Female threads for piping

How to Order

IZN10E – **01** **P** **06** **Z** – **B1** – **X516**

High frequency AC nozzle model

Nozzle type

Symbol	Type
01	Energy saving nozzle
02	High flow rate nozzle
11	Female threads for piping*1

∗1 Refer to the cautions listed below when using the female threads for piping.

Input/Output specifications

Symbol	Type
Nil	NPN input/output
P	PNP input/output

One-touch fitting

Symbol	Type	
06	ø6: Metric size	One-touch fitting

∗ The One-touch fitting cannot be changed after the delivery of the product.

Series compatible with secondary batteries

Bracket

Symbol	Type	Part no.
Nil	Without bracket	—
B1	L-bracket	IZN10-B1
B2	Pivoting bracket	IZN10-B2
B3	DIN rail mounting bracket	IZN10-B3

∗ Refer to page 130. Brackets are the same as those for the previous model (IZN10). Mounting is interchangeable.

Power supply cable

Symbol	Type	Part no.
Nil	With power supply cable (3 m)	IZN10E-CP
Z	With power supply cable (10 m)	IZN10E-CPZ
N	Without power supply cable	—

∗ Mounting is interchangeable with the previous model (IZN10).

∗ The piping port of this product has been changed to a One-touch fitting. Other specifications, including the dimensions, are the same as those of the standard product.
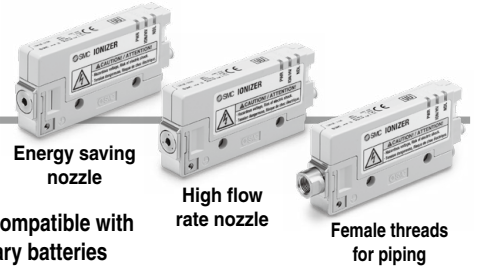
For details, refer to the Web Catalog.

Accessories

Bracket

IZN10 – **B1**

Bracket

Symbol	Type
B1	L-bracket
B2	Pivoting bracket
B3	DIN rail mounting bracket

L-bracket
IZN10-B1

Fixed mounting **Pivot mounting**

Pivoting bracket
IZN10-B2

DIN rail mounting bracket
IZN10-B3
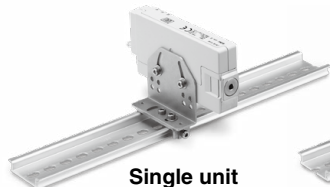
Single unit **Manifold**∗1

∗1 The L-bracket and the DIN rail mounting bracket can be used with the manifold.

Power supply cable

IZN10E – **CP** ☐

Power supply cable

Symbol	Type
Nil	3 m
Z	10 m

Power supply cable: Made to order

IZN10E – **CP** **01** – **X13**

Power supply cable length

Symbol	Type
01	1 m
⋮	⋮
20	20 m

∗ Available in 1 m increments from 1 m to 20 m. Use standard power supply cables for 3 m and 10 m lengths.

SMC

Nozzle Variations

Circular diffusion nozzle

Static neutralization range

Ionized air
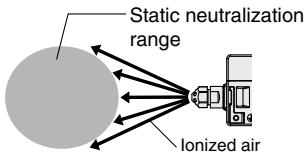
Part no.
IZN10-G-X198

Supply pressure specifications:
0.05 to 0.1 MPa

Flat diffusion nozzle

Static neutralization range

Ionized air
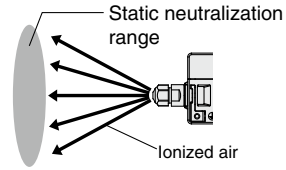
Part no.
IZN10-G-X199

Supply pressure specifications:
0.05 to 0.1 MPa

For the ionizer, please select the female threads for piping (Rc1/8).

IZN10E-11□□-X516

Fan Type Ionizer
IZF21/31-X516 Series

CE UK CA RoHS

How to Order

IZF **21** – ☐ – ☐ **B** ☐☐ – **X516**

● **Series compatible with secondary batteries**

Model

Symbol	Max. air flow
21	1.8 m³/min
31	4.4 m³/min

Input/Output

Nil	NPN input/output
P	PNP input/output

Power supply cable, AC adapter

Nil	With power supply cable (3 m)
Z	With power supply cable (10 m)
Q	With AC adapter (With AC cord)
R	With AC adapter (Without AC cord)
N	None

Air suction side filter

Nil	None
U	With filter*1

*1 Filter + Filter holder

Automatic cleaning unit, Louver

Nil	None
S	With automatic cleaning unit
W	With adjustable louver
Y	With automatic cleaning unit + adjustable louver

Bracket

B	With bracket

* This product has a modified body mounting bolt.
  Therefore, the dimensions when mounting with a bracket will be different.
  Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

⊖SMC

Accessories (for Individual Parts)

Emitter cartridge

IZF 21 – NT

● Model

21	For IZF21
31	For IZF31

Power supply cable

IZS41 – CP ☐

● Power supply cable

Nil	Power supply cable (3 m)
Z	Power supply cable (10 m)

IZS41 – CP 02 – X13

● Power supply cable length

01	Total length: 1 m
02	Total length: 2 m
⋮	⋮
19	Total length: 19 m
20	Total length: 20 m

∗ Available in 1 m increments from 1 m to 20 m
Use standard power supply cables for 3 m and 10 m lengths.

AC adapter

AC adapter

AC cord

IZF21 – C G1

● AC adapter

G1	AC adapter (With AC cord)
G2	AC adapter (Without AC cord)

∗ When "G1" is selected, an AC cord with a rated voltage of 125 V is included.
If using an input voltage exceeding 125 VAC, select "G2" (Without AC cord) and prepare a suitable AC cord separately.
The external input/output function of the ionizer cannot be used when an AC adapter is being used.

Adjustable louver

IZF 21 – HW

● Model

21	For IZF21
31	For IZF31

Bracket

IZF 21 – B1 – X516

● Model

21	For IZF21
31	For IZF31

∗ 4 retaining bolts are included.

Automatic cleaning unit

IZF 21 – HS

● Model

21	For IZF21
31	For IZF31
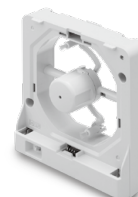
Cleaning arm (for the automatic cleaning unit)

IZF 21 – M3

● Model

21	For IZF21
31	For IZF31
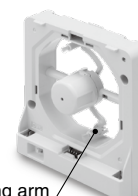
Cleaning arm

∗ Removable
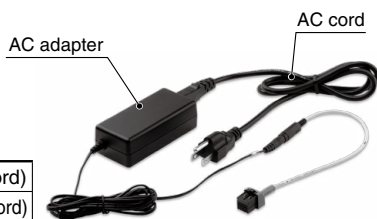
Air suction side filter

IZF 21 – F L

Filter holder

Filter

● Model

21	For IZF21
31	For IZF31

● Air suction side filter

L	Filter
U	Filter + Filter holder

Accessories Sold Separately

Cleaning kit

IZS30 – M2
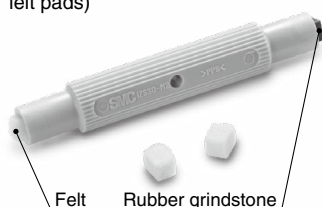
(With 1 felt pad, 1 rubber grindstone, and 2 replacement felt pads)

Felt   Rubber grindstone

IZS30 – A0201

(10 replacement felt pads)

IZS30 – A0202

(1 replacement rubber grindstone)

Adjustment screwdriver
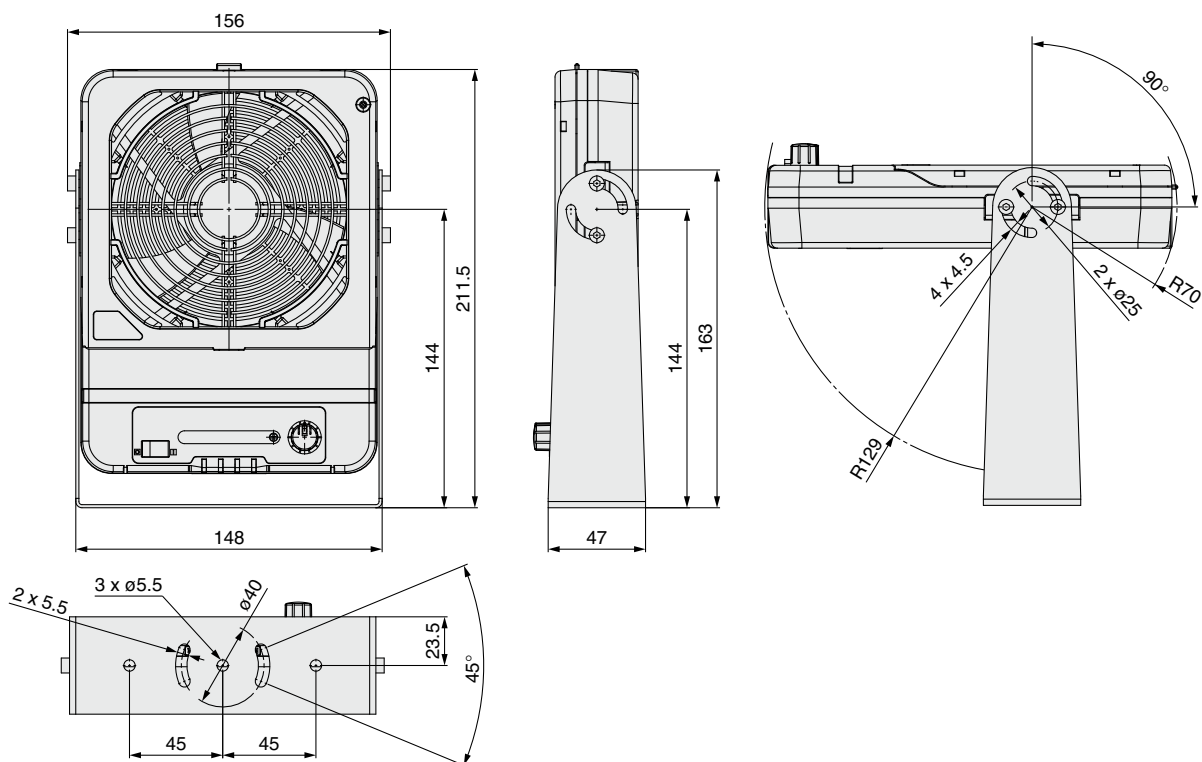
IZS30 – M1

IZF21/31-X516 *Series*

Dimensions

Bracket
IZF21-☐-☐B☐☐-X516
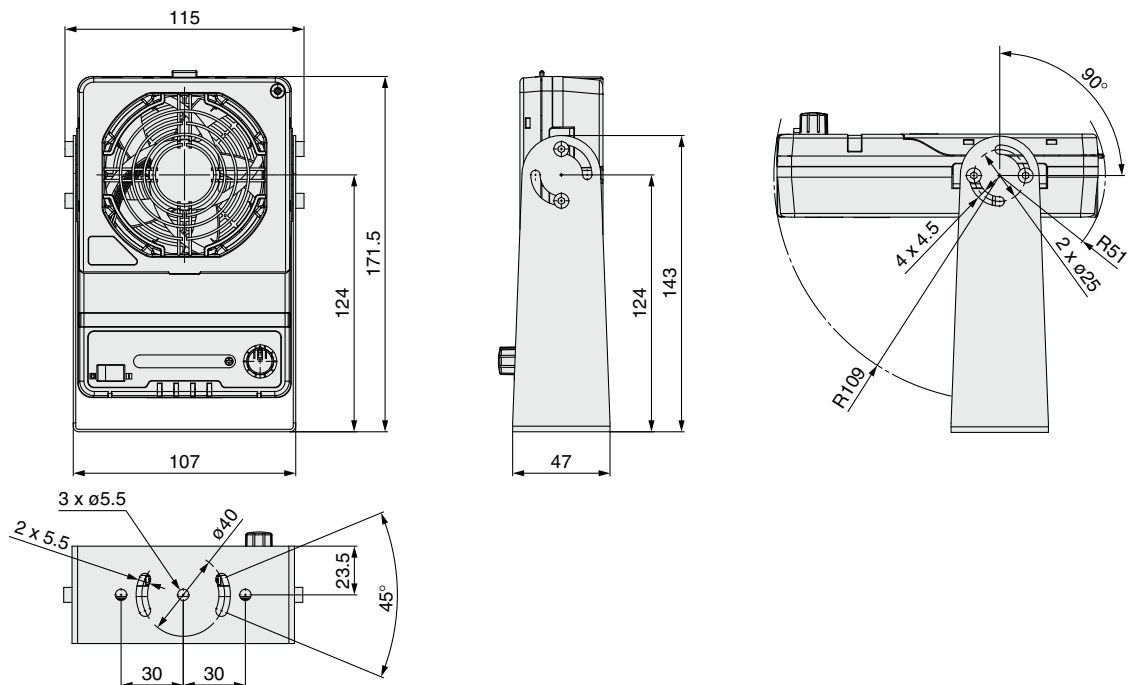
Bracket
IZF31-☐-☐B☐☐-X516

SMC

Fan Type Ionizer
IZF10/IZF10R-X516 Series

With flow rate adjustment function

How to Order

Without Flow Rate Adjustment Function

IZF10－☐☐－☐**B**－**X516**

Compact fan type

Air flow

Nil	0.66 m³/min
L	0.46 m³/min

Series compatible with secondary batteries

With Flow Rate Adjustment Function

IZF10R－☐－☐**B**－**X516**

Compact fan type

With flow rate adjustment function
(0.19 to 0.80 m³/min)

Series compatible with secondary batteries

Bracket

B	With bracket

Power supply cable, AC adapter

Nil	With power supply cable (3 m)
Z	With power supply cable (10 m)
H*1	e-con connector
Q	With AC adapter (With AC cord)
R	With AC adapter (Without AC cord)
N	None

*1 A power supply connector for customers supplying their own cable
Can only be used if the IZF10 is selected

Output

Nil	NPN output
P	PNP output

* This product has a modified body mounting bolt.
Therefore, the dimensions when mounting with a bracket will be different.
Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

SMC

Accessories (for Individual Parts)

Power supply cable

IZF10☐ – C P `IZF 10` `IZF 10R`

● **Power supply cable**

P	Power supply cable (3 m)
PZ	Power supply cable (10 m)

● **Flow rate adjustment function**

Nil	Without flow rate adjustment function (For the IZF10)
R	With flow rate adjustment function (For the IZF10R)

**Without flow rate adjustment function
Power supply cable for the IZF10**

**With flow rate adjustment function
Power supply cable for the IZF10R**

AC adapter

IZF10☐ – C G1 `IZF 10` `IZF 10R`

● **AC adapter**

G1	AC adapter (With AC cord)
G2	AC adapter (Without AC cord)

∗ The AC cord has a rated voltage of 125 V. If using an input voltage exceeding 125 VAC, select "G2" (Without AC cord) and prepare a suitable AC cord separately.

● **Flow rate adjustment function**

Nil	Without flow rate adjustment function
R	With flow rate adjustment function

AC cord

AC adapter

Without flow rate adjustment function

AC adapter

AC cord
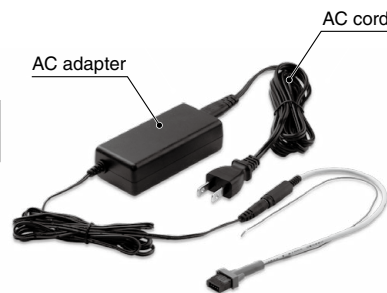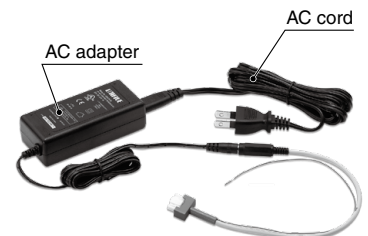
With flow rate adjustment function

e-con connector `IZF 10`

ZS – 28 – C

∗ Applicable wire size: AWG26 to 24, Conductor cross sectional area: 0.14 to 0.2 mm², Finished outside diameter: ø0.8 to ø1.0 mm

Cartridge case `IZF 10` `IZF 10R`

IZF 10 – A1

● **Flow rate adjustment function**

10	Without flow rate adjustment function
10R	With flow rate adjustment function

For with flow rate adjustment function

Bracket `IZF 10` `IZF 10R`

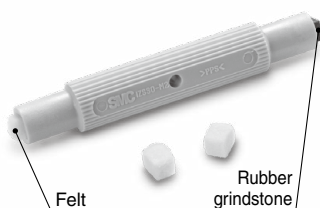**IZF10 – B1 – X516**

∗ 4 retaining bolts are included.
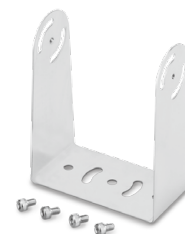
Accessories Sold Separately `IZF 10` `IZF 10R`

Cleaning kit

IZS30 – M2

(With 1 felt pad, 1 rubber grindstone, and 2 replacement felt pads)

IZS30 – A0201

(10 replacement felt pads)

IZS30 – A0202

(1 replacement rubber grindstone)

Felt

Rubber grindstone

Adjustment screwdriver

IZS30 – M1

IZF10/IZF10R-X516 *Series*

Dimensions

Bracket
IZF10-□□-□B-X516
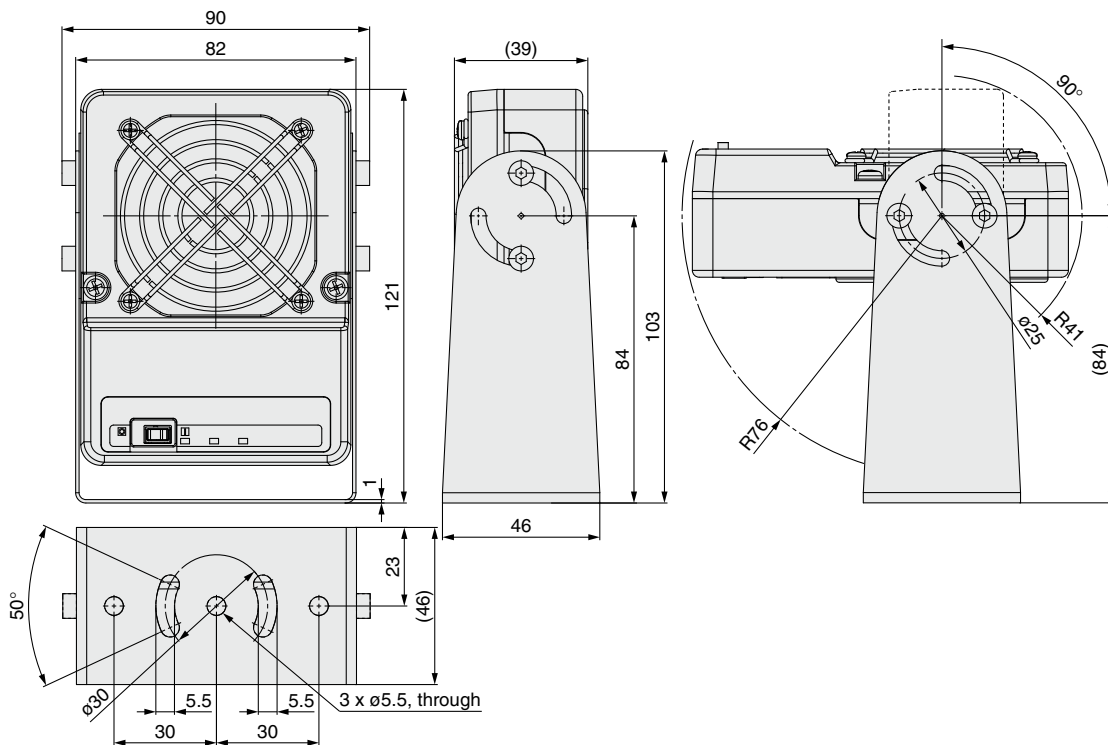
Bracket
IZF10R-□□-□B-X516

SMC
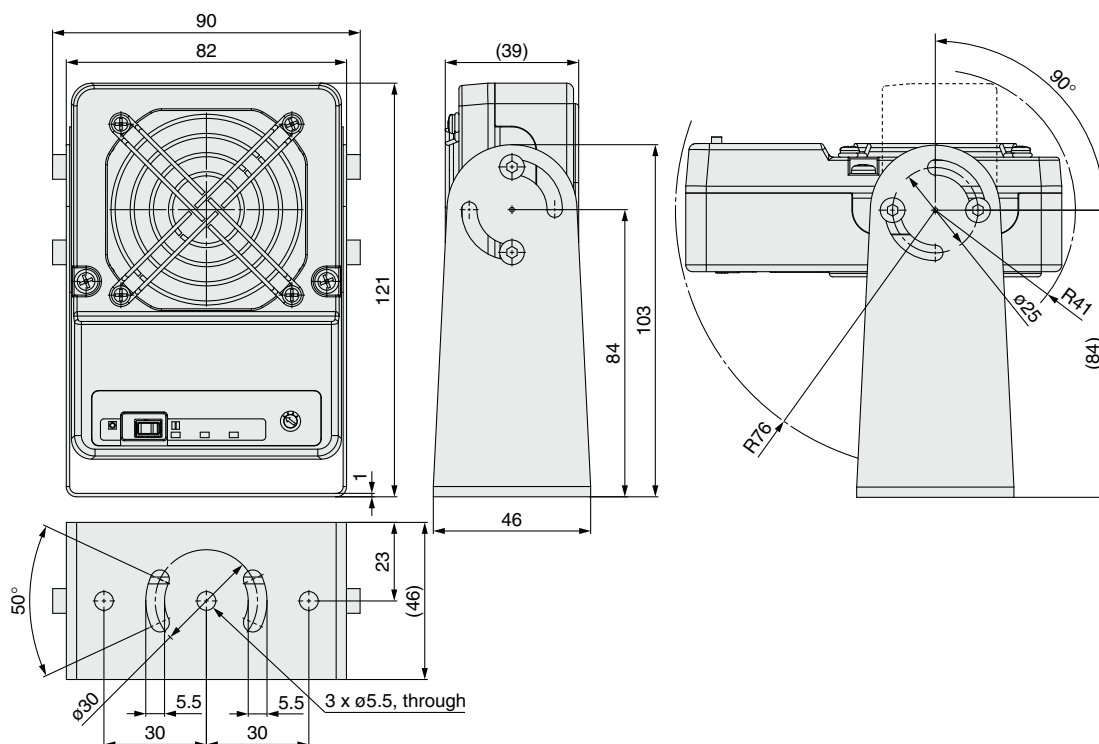
Ionizer Gun
IZG10-X516 Series

CE UKCA RoHS

* The piping port of this product has been changed to a One-touch fitting. Other specifications, including the dimensions, are the same as those of the standard product.

For details, refer to the Web Catalog.

How to Order

IZG10−08 01 − 01 −X516

One-touch fitting

Symbol	Port size
08	ø8 (Metric)

AC adapter[*1]**, Power supply cable**

Symbol	Type
01	AC adapter (With AC cord[*2])
02	AC adapter (Without AC cord)
03	Power supply cable (For 24 VDC wiring)
N	None

Series compatible with secondary batteries

Nozzle type

Symbol	Type
01	Standard nozzle
02	Bypass nozzle[*3]

⚠️ **Caution**

The nozzle is specific for this product. Do not use any other nozzle. Doing so will adversely affect static neutralization performance.

*1 The AC adapter body and the power supply cable (For AC adapter) come as a set. Refer to the AC adapter image below under "Accessories."
*2 The AC cord has a rated voltage of 125 V. If using an input voltage exceeding 125 VAC, select "02" (Without AC cord) and prepare a suitable AC cord separately.
*3 This nozzle is complaint with the OSHA standard for hand and portable powered tools and equipment, general (1910.242b) requiring that "static pressure at the main orifice shall not exceed 30 psi (210 kPa). This requirement is necessary in order to prevent a back pressure buildup in case the nozzle is obstructed or dead ended." ∗ Supply pressure: 0.5 MPa or less
OSHA: Occupational Safety and Health Administration

Accessories (for Individual Parts)

AC adapter
IZG10−CG 1

AC adapter[*1]

Symbol	Type
1	With AC cord[*2]
2	Without AC cord

AC adapter body | AC cord

Power supply cable (For AC adapter)
Cable length: 3 m

*1 The AC adapter body and the power supply cable (For AC adapter) come as a set.
*2 The AC cord has a rated voltage of 125 V. If using an input voltage exceeding 125 VAC, select "02" (Without AC cord) and prepare a suitable AC cord separately.
The input (AC) side and output (DC) side of the AC adapter are not isolated. If using the AC adapter as DC power supply for a different product, this may cause an electric shock or malfunction. Do not use the AC adapter for the DC power supply of a different product.

Power supply cable (For 24 VDC wiring)
IZG10−CP

Cable length: 3 m

Nozzle assembly
IZG10−A001− 01

Nozzle type

Symbol	Type
01	Standard nozzle
02	Bypass nozzle[*1]

Standard nozzle | Bypass nozzle
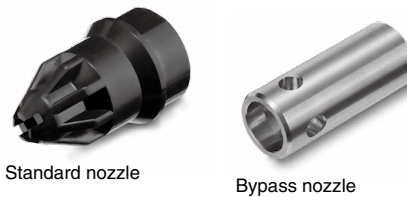
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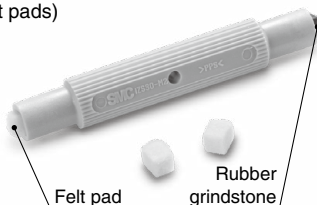OSHA: Occupational Safety and Health Administration

Emitter assembly
IZG10−NT

* A protective cap is attached to the tip of the emitter when shipped. Please remove the cap before use.

Cleaning kit
IZS30−M2

(With 1 felt pad, 1 rubber grindstone, and 2 replacement felt pads)

Felt pad | Rubber grindstone

IZS30−A0201

(10 replacement felt pads)

IZS30−A0202

(1 replacement rubber grindstone)

Removal tool
IZG10−M1

Use this tool to remove the emitter assembly.
The removal tool is shipped together with the product.
To order it separately, use the product number above.
In addition, refer to the operation manual for replacement instructions.

Ⓐ 285-17

SMC