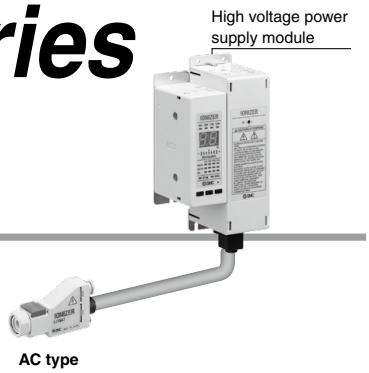
Separate Controller

Nozzle Type Ionizer

IZT43(-L) Series



How to Order

Nozzle + High voltage power supply module + Controller

Transistor input/output IZT 43 – D 1 6H ❺ – 3 F U

IO-Link IZT 43 – D 1 6H L – T R F U

❶ ❷ ❸ ❹ ❼ ❽ ❾ ❿

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
⇨ Refer to page 51.

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

❹ One-touch fitting

Symbol	Metric size
6H	ø6 Straight
6L	ø6 Elbow

Symbol	Inch size
7H	ø1/4" Straight
7L	ø1/4" Elbow

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		5
M		10
S	Angled	3
T		5
Z		10

❽ Communication cable entry direction/length

Symbol	Entry direction	Length [m]
N	None	
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

❾ Nozzle bracket
⇨ Refer to page 51.

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
⇨ Refer to page 51.

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

Specifications

Ionizer Specifications

Ion generation method		Corona discharge type
Method of applying voltage		AC, DC*1
Applied voltage		±6000 V
Offset voltage*2		±30 V or less
Air purge	**Fluid**	Air (Clean, dry air)
	Operating pressure	0.7 MPa or less
	Connecting tube size	Metric size: ø6 Inch size: ø1/4"
Current consumption		0.4 A or less (+0.4 A or less per ionizer when connected)
Power supply voltage		24 VDC ±10%
Input signal*3	**NPN specification**	Connected to DC (–) Voltage range: 5 VDC or less Current consumption: 5 mA or less
	PNP specification	Connected to DC (+) Voltage range: 19 VDC to power supply voltage Current consumption: 5 mA or less
Output signal*3	**NPN specification**	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA) Max. applied voltage: 26.4 VDC
	PNP specification	Max. load current: 100 mA Residual voltage: 1 V or less (Load current at 100 mA)
IO-Link device*4		Voltage range: 18 to 30 VDC Current consumption: 100 mA or less * For details, refer to the "IO-Link Communication Specifications" table below.
Function		Auto balance, Maintenance detection, High voltage abnormality detection (Ion generation stops when an abnormality is detected.), and Ion generation stop input
Effective static neutralization distance		50 to 2000 mm
Ambient and fluid temperatures	**Controller** **High voltage power supply module** **Nozzle**	0 to 40°C
Ambient humidity		35 to 65% Rh (No condensation)
Material	**Controller**	Cover: ABS, Aluminum, Switch: Silicone rubber*3
	High voltage power supply module	ABS, Aluminum
	Nozzle	Housing: PBT, Stainless steel, Emitter cartridge: PBT, Emitter: Tungsten, High voltage cable: Silicone rubber, PVC, Stainless steel
Standards/Directive		CE marking (EMC Directive)

*1 Apply cathode or anode to DC.
*2 When air purge is performed between a charged object and an ionizer at a distance of 300 mm
*3 Only applicable to transistor input/output specification products
*4 Only applicable to IO-Link compatible products

IO-Link Communication Specifications

IO-Link type	Device
IO-Link version	V1.1
Configuration file format	IODD file*1
Communication speed	COM2 (38.4 kbps)
Min. cycle time	8.0 ms
Process data length	Input data: 13 bytes, Output data: 9 bytes
On request data communication	Yes
Data storage function	Yes
Event function	Yes
Vendor ID	131 (0 x 0083)
Device ID	581 (0 x 000245)

*1 The configuration file can be downloaded from the SMC website: https://www.smcworld.com