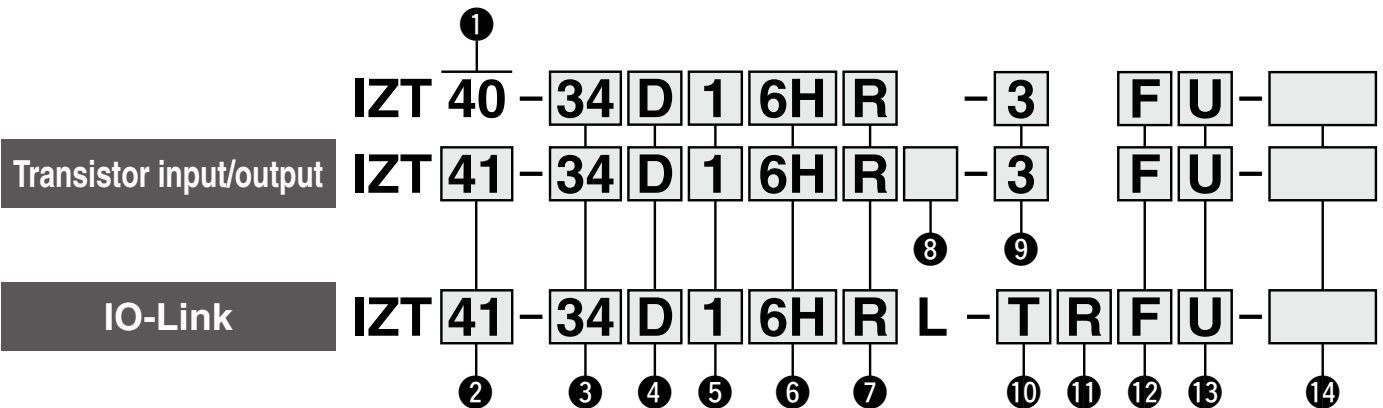


Separate Controller Bar Type Ionizer

IZT40/41(-L)/42(-L) Series

How to Order

Bar + High voltage power supply module + Controller



1 Model

Symbol	Model
40	Standard type

2 Model

Symbol	Model
41	AC type
42	Dual AC type

5 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

3 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

6 One-touch fitting

Symbol	Metric size
4H	ø4 Straight
6H	ø6 Straight
8H	ø8 Straight
AH	ø10 Straight
4L	ø4 Elbow
6L	ø6 Elbow
8L	ø8 Elbow
AL	ø10 Elbow

Symbol	Inch size
5H	ø3/16" Straight
7H	ø1/4" Straight
9H	ø5/16" Straight
BH	ø3/8" Straight
5L	ø3/16" Elbow
7L	ø1/4" Elbow
9L	ø5/16" Elbow
BL	ø3/8" Elbow

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

4 Emitter cartridge type/ Emitter material

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

7 Plug position

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

8 Input/Output

Symbol	Input/Output
Nil	NPN
P	PNP

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

Specifications

Ionizer Specifications

Ionizer model		IZT40	IZT41(-L)	IZT42(-L)
Ion generation method		Corona discharge type		
Method of applying voltage		AC, DC*1		Dual AC
Applied voltage		±7000 V		±6000 V
Offset voltage*2		Within ±30 V		
Air purge	Fluid	Air (Clean, dry air)		
	Operating pressure	0.5 MPa or less		
	Proof pressure	0.7 MPa		
	Connecting tube size (One side can be plugged.)	Metric size: ø4, ø6, ø8, ø10 Inch size: ø3/16", ø1/4", ø5/16", ø3/8"		
Current consumption		0.7 A or less (+0.6 A or less per ionizer when connected)	0.8 A or less (+0.7 A or less per ionizer when connected)	1.4 A or less (+1.3 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		High voltage abnormality detection (Ion generation stops when an abnormality is detected.)	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	0 to 40°C		
	Bar	0 to 50°C		
Ambient humidity		35 to 80%RH (No condensation)		
Material	Controller	Cover: ABS, Aluminum, Switch: Silicone rubber*3		
	High voltage power supply module	ABS, Aluminum		
	Bar	Cover: ABS, Emitter cartridge: PBT, Emitter: Tungsten or Single crystal silicon, High voltage cable: Silicone rubber, PVC		
Standards/Directive		CE (EMC directive, RoHS directive), UKCA		

*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 For transistor input/output specification products

*4 For IO-Link compatible products

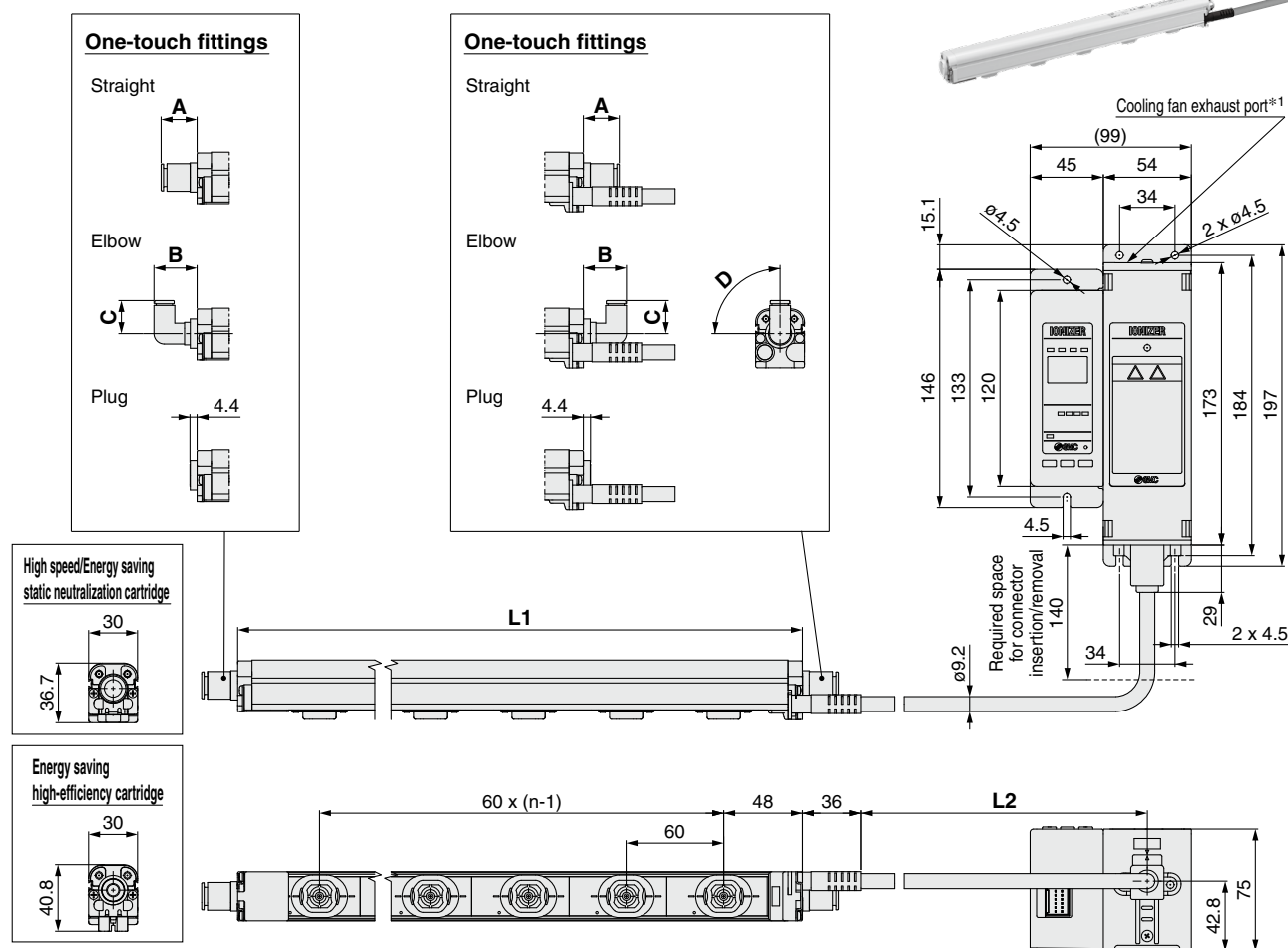
IO-Link Communication Specifications

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>

Dimensions

Ionizer IZT40, 41(-L)



*1 Refer to Mounting (12) in the Specific Product Precautions (page 113).

No. of Emitter Cartridges n, Bar Length L1

Part no.	n [pcs.]	L1 [mm]
IZT□-16	2	160
IZT□-22	3	220
IZT□-34	5	340
IZT□-40	6	400
IZT□-46	7	460
IZT□-58	9	580
IZT□-64	10	640
IZT□-82	13	820
IZT□-112	18	1120
IZT□-130	21	1300
IZT□-160	26	1600
IZT□-190	31	1900
IZT□-232	38	2320
IZT□-250	41	2500

High Voltage Cable Length L2

Symbol	L2 [mm]
1	1000
2	2000
3	3000

One-touch Fittings

Straight [mm]

	Applicable tubing O.D.	A
Metric	ø4	13
	ø6	13
	ø8	15
	ø10	22
Inch	ø3/16"	15
	ø1/4"	14
	ø5/16"	15
	ø3/8"	23

Elbow

	Applicable tubing O.D.	B	C	D
Metric	ø4	25	19	90°
	ø6	27	21	75°
	ø8	29	24	73°
	ø10	37	27	71°
Inch	ø3/16"	26	20	90°
	ø1/4"	27	21	75°
	ø5/16"	29	24	73°
	ø3/8"	36	27	71°