



SW5はRS-422とRS-485通信の切替です。OFF: RS-422、ON: RS-485となります。 ON/OFF 信号入力による風量切り替え時(SW2:ON、SW1:OFF)にSW6をONに すると風量を低下させる場合に5分間風量を維持します。(本体ラベル表示: MODE2)

I					
	[	DIP SW 2	DIP SW 1	本体ラベル表示	風量切り
	ſ	OFF(下側)	OFF(下側)	MANUAL	手動(本体の風量切り替えボタン
	ſ	ON(上側)	OFF(下側)	I/0	ON/OFF 信号入力で風量切り替
		OFF(下側)	ON(上側)	REMOTE	RS-422/RS-485 通信により風量 別売のエアパーティクルセンサ飛
		ON(上側)	ON(上側)	REMOTE	形元のエアハーティアルセンの派 形 ZN-SF により制御する場合は、

⑤ID 用ロータリーSW(工場出荷時 ID:1) 形ZN-Aを1台でご使用される場合はIDの設定:1で使用してください。 複数の形ZN-Aを接続する場合にRS-422/RS-485通信のID設定が必要です通 信仕様およびエアパーティクルセンサ形ZN-PDAで形ZN-Aを制御する場合は、 別途お問い合わせください

(6)ACインレット

AC電源ケーブルの挿入口です。AC 電源ケーブルは別売りです。 日本国内でAC電源にて使用する場合は、必ず指定の電源ケーブル(形 ZN9 -AC□□定格125V 7A)をご使用ください。海外で使用する場合は、別途お問 い合わせください。

⑦電源表示灯(緑色) 正常運転時は点灯し、待機状態では点滅します。

(8)ON/OFF SW 運転/待機を切り替えます。

⑨アラーム表示灯(赤色) 異常時に点灯または点滅します。詳細は下記表示灯点灯の仕方を見てください。

⑩風量レベル表示灯(青色) 風量レベルを表示します。

(1)風量切り替えボタン

このボタンを押すごとに風量が以下の様に切り替わります。

 $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$ 

\*④のDIP SWの端子1 または端子2をONにされている場合は、このボタンを押して も風量は切り替わりません。

#### ■表示灯点灯の仕方

点灯の仕方と色により形ZN-A6112の状態をお知らせします。

No	表示灯の点灯の仕方と色	状態
1	⑦緑点灯	正常運転状態
2	⑦緑点滅	待機状態
3	⑨赤点滅 + ⑩風量 1 (青)点灯	電源電圧が正しくありません
4	⑨赤点滅 + ⑩風量2(青)点灯	ファン過電流異常 *1
5	⑨赤点滅 + ⑩風量3(青)点灯	ファンの回転異常 *1
6	⑨赤点滅 + ⑩風量 4(青)点灯	ファンの寿命 *1
7	⑨赤点滅 + ⑩風量 5(青)点灯	ソフトエラー *1
	⑨赤点滅 + ⑩風量 5 から	プレフィルタ目詰まり *2
8	1(青)へ順次点滅	プレフィルタを清掃してください
	⑨赤点滅 + ⑩風量 1 から	HEPA フィルタ目詰まり *2
9	5(青)へ順次点滅	HEPA フィルタを交換してください

\*1 この時、電源を OFF にし、再投入しても復帰しない場合は、貴社担当オム ロン営業員にお知らせください。

\*2 形 ZN-A6112P のみ





#### 13プレフィルタカバー

プレフィルタ固定用カバーです。プレフィルタのメンテナンス時はまわして取り外してく ださい

#### (14)HEPAフィルタ

空気中の塵埃を捕集する高性能フィルタです。 交換時は、必ず電源プラグを抜いて、内部のファンが止まったことをご確認ください。

15110手

持ち運び時に使用する取手です。

16フィルタ目詰まり検知口(形ZN-A6112Pのみ) この穴から筐体内と外の差圧を測定し、フィルタの目詰まりを検知します。穴を塞い だり、無理に押したりしないでください。

## ■ 入力について



## 出力について



## 取付けについて

・本体をクリーンブース天板等に取り付けられる際は、M6のネジを使用してしっかりと 取り付けてください。(締め付けトルク4.3~4.8N·m)

- ・付属の取付けネジを使用される場合、本体が設置される据付面の板厚は30mm 以下とし、据付面の強度については十分にご確認ください。
- ・吸い込み口上面は性能確保のため、110mm以上あけてください。
- ・電源ケーブルを挿入、取り回しするために、本体側面の端子周囲は130mm以上 の空間をとってください。
- ・HEPAフィルタ下面の格子部分のみで本体を支えたり、持ち上げたりしないでくださ 12
- ・吹き出し口を上にして取り付けないでください。故障の原因となります。
- ・本体と据付面の間の空気もれ防止に付属のパッキンをご利用ください。 ・吹き出し口は性能確保のため100mm以上あけてください。



・取り付いた状態では、HEPAフィルタは据付面より下に出ます。





#### ■ メンテナンスについて

・HEPA フィルタ交換時は、必ず電源プラグを抜いて 内部のファンが停止したことをご確認のうえ、行ってください。

- ・HEPA フィルタ交換の際、内部の回路部やファンには触れないでください。
- ・HEPA フィルタ下面の格子部分のみで本体を支えたり、持ち上げたりしないでくだ
- さい
- ・HEPA フィルタのフィルタ面には絶対に触れないでください。破損の原因になり、 フィルタの能力を発揮できなくなります。
- HEPAフィルタを落としたり、衝撃を与えたりしないでください。 破損の原因になり、フィルタの能力を発揮できなくなります。
- ・フィルタ目詰まり表示が点灯した時(形 ZN-6112Pのみ、「各部の名称と機能」 表示灯点灯の仕方の8および9を参照)は、吸い込み口、吹き出し口に異物など がないかをご確認のうえ、プレフィルタの清掃または HEPA フィルタを交換してくだ さい。
- フィルタ目詰まり状態でご使用されますと、風量性能が低下します。 ・プレフィルタに付着した埃は、掃除機で吸うまたは取り外して水洗いし、定期的に
- 取り除いてください。 ・HEPA フィルタ交換以外には、HEPA フィルタを外さないでください。

## ■ フィルタ交換方法

#### 1. プレフィルタの交換

- プレフィルタが破損した場合は新しいプレフィルタ (形 ZN9-APF61) に交換してく ださい。
- (1) 電源を OFF にし、内部のファンが停止したことを確認します。
- (2) 上部本体より、プレフィルタカバーを左にまわしながらはずします。
- はずれにくい場合は、軽く下に押しながらまわしてください。 (3) プレフィルタをはずします。
- (4) プレフィルタを清掃した後、元の位置にもどし、プレフィルタカバーを右にまわし ながらはめてください。この時、プレフィルタカバーの溝を本体の突起にあわせ てください。最後にはずれないことを確認してください。





2.HEPA フィルタの交換

交換用 HEPA フィルタ:形 ZN9-AHP61

HEPA フィルタのフィルタ面には絶対に触れないでください。

(1) 電源プラグを抜いて、内部のファンが停止したことを確認します。

- (2) ネジを外して、HEPA フィルタを取り外します。
- (3) 落下防止フックを取り外します。ネジやHEPAフィルタの落下に注意してください。
- (4) 落下防止フックを新しい HEPA フィルタに取り付けます。
- (5) 新しい HEPA フィルタをはめ込みます。

この時、HEPA フィルタと本体の落下防止フック固定方向にご注意ください HEPA フィルタ固定穴と本体のネジ穴の位置をあわせて HEPA フィルタをはめ込 み、締付けトルク1.2~1.5N·mで取付けてください。





(単位:mm)

### ■ フィルタ目詰まり検知機能について(形ZN-6112Pのみ)

- ・フィルタ目詰まり表示が点灯した時(「各部の名称と機能」表示灯点灯の仕方8お よび9を参照)は、吸い込み口、吹き出し口に異物などがないかをご確認のうえ、 プレフィルタの清掃または HEPA フィルタを交換してください。
- ・フィルタ目詰まり状態でご使用されますと、風量性能が低下します。
- ・フィルタ目詰まり表示は、風量が初期のおよそ30~60%程度になった時点で点灯 するよう設定していますが、周囲陽圧の影響等により変動します。
- ・フィルタ目詰まり検知は、風量切り替えまたは電源 OFF により、一日リセットされま す。再度検知するまで約15分かかります。

## ご承諾事項

当社商品は、一般工業製品向けの汎用品として設計製造されています。従いまして、次に 掲げる用途での使用を意図しておらず、お客様が当社商品をこれらの用途に使用される際 には、当社は当社商品に対して一切保証をいたしません。ただし、次に掲げる用途であって も当社の意図した特別な商品用途の場合や特別の合意がある場合は除きます。

- (a) 高い安全性が必要とされる用途(例:原子力制御設備、燃焼設備、航空・宇宙設備、鉄 道設備、昇降設備、娯楽設備、医用機器、安全装置、その他生命・身体に危険が及び うる用途)
- (b) 高い信頼性が必要な用途(例:ガス・水道・電気等の供給システム、24時間連続運転 システム、決済システムほか権利・財産を取扱う用途など)
- (c) 厳しい条件または環境での用途(例:屋外に設置する設備、化学的汚染を被る設備、 雷磁的妨害を被る設備、振動・衝撃を受ける設備など)
- (d) カタログ等に記載のない条件や環境での用途
- \*(a)から(d)に記載されている他、本カタログ等記載の商品は自動車(二輪車含む。以下同 じ)向けではありません。自動車に搭載する用途には利用しないで下さい。自動車搭載 用商品については当社営業担当者にご相談ください。
- \*上記は適合用途の条件の一部です。当社のベスト、総合カタログ、データシート等最新版 のカタログ、マニュアルに記載の保証・免責事項の内容をよく読んでご使用ください。



# OMRON

# Model ZN-A6112

Air Clean Unit

# **INSTRUCTION SHEET**

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product. Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

Omron Corporation,

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NOTICE

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to adequate measures.

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## PRECAUTIONS ON SAFETY

	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally, there may be significant property damage.	
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.	

Warning Indicators

## 

When screw-fastening the body for use, vibration or the body's own weight may cause it to fall, and cause an injury if the screws are not sufficiently tightened. Mount the body using M6 screws tightened to a tightening torque of 4.3 to 4.8 N·m.

## 

You might get electrical shock. Pull out the power supply plug, when removing a HEPA filter.

## PRECAUTIONS FOR SAFE USE

Please observe the following precautions for safe use of the product. 1. Do not use this product in environments where it can be exposed to inflammable/explosive gas.

- In order to secure the safety of operation and maintenance, do not install this
- product close to high-voltage devices and power devices.
- Use the power supply within the specified voltage range.
   Do not disassemble, repair, or modify this product.
- 5. Dispose of this product as industrial waste.
- Do not add vibration or shock during transportation and installation.
- 7. Do not connect Ethernet with the communication terminal (RJ-45).
- The equipment might be damaged.
- 8. Put protection cover when the product is set at the place hitting your head on it.
- Work by two people or more when the installation and replacing the HEPA filter so as not to fall.
- Applicable standards
- EN61326-1
- Electromagnetic environment : Industrial electromagnetic environment (EN/IEC 61326-1 Table 2)

## PRECAUTIONS FOR CORRECT USE

Please observe the following precautions to prevent failure to operate, malfunctions, or undesirable effects on product performance. 1. Installation Site

- 1. Installation Site
  - Do not install this product in locations subjected to the following conditions: • Ambient temperature outside the rating
  - · Ambient humidity outside the rating
  - · Over 2000 m above sea level
  - · Presence of corrosive or flammable gases
- Presence of salt, or iron particles
   Direct vibration or shock
- Direct vibration or shock
   Outdoor or direct sunlight
- Outdoor or direct sunlight
   Water, oil, or chemical fumes or spray
- Strong magnetic or electric field, and charged objects
- 2. Power Supply and Wiring
- Always use the specified AC power supply cable. (ZN9-AC Ratings 125 V 7 A)
- · Always ground the GND terminal of ACpower supply adapter cable.
- Do not apply 24 VDC from the power terminal while the AC power supply is in use.
- $\cdot$  If surge current is present in the power lines, connect surge absorbers that suit the operating environment.
- When connecting the power and output lines, pay attention to the polarity of the lines. The supply voltage must be within the rated range.
- When connecting the power line, do not short-circuit the power supply.
- When connecting the output line, the supply current must be within the rated range. • High-voltage lines and power lines must be wired separately from this product. Wiring them together or placing them in the same duct may cause induction, resulting in malfunction or damage.
- · Do not connect or disconnect connectors and other components with power applied to the product.
- Do not put things around AC inlet, as power supply cable can be pull out when trouble happens.
- 3. Maintenance and Inspection
- When the filter stuck detection display turns ON, clean the pre-filter or replace the HEPA filter.(Model ZN-A6112P only)
- When filter gets clogged, air volume gets down. Time for replacement of filter depends on environment. Guide of time for replacement is one year in general environment and five years in clean room (ISO class 7).
- Before replacing the filter, always make sure the fan has stopped rotating.
  When replacing the filter, do not touch the electrical circuits inside the body.
- Open the upper body section only to replace HEPA filter.
- Periodically clean dust from the pre-filter.

## Intended purpose

Air clean unit makes the area that is enclosed less dust condition in the manufacturing environment. It is used to reduce defectives that are caused by dust in assemble process.

It is possible to adjust air volume according to size or clean level of the area that needs to be kept clean.

## Ratings/Performance

Item	Specifications
Model	ZN-A6112/ZN-A6112P *1
Air outlet dimension	578 X 568 mm
Main filter/	HEPA filter/
Particle outlet efficiency	More than 99.99% for 0.3 µm particle
	Air volume level 1: 4 m <sup>3</sup> /min (typical)
Air volume (m³/min) Sound noise level Power supply voltage Current consumption Indicator	Air volume level 2: 6 m <sup>3</sup> /min (typical)
	Air volume level 3: 8 m <sup>3</sup> /min (typical)
	Air volume level 4: 10 m <sup>3</sup> /min (typical) Air volume level 5: 12 m <sup>3</sup> /min (typical)
Cound poise loval	Air volume level 3 : 2 m / min (typical)
Sound noise level	
Power supply voltage	24 VDC±10% ripple (p-p) 10% max. 100 - 240 VAC 50/60 Hz
	Air volume level 5
urrent consumption	24 VDC : 4.3 A max. (RMS value) (Peak: 8 A)
	100 VAC : 2.5 A max. (RMS value) (Peak: 7 A)
Indicator	Operation: Green/Red Air volume: Blue
	Fan operation output : Fan operation output turns OFF, when one of the followings happens. (Normally, Fan operation output is ON.) Check indicator to find out which one is happening.
	<ul> <li>Incorrect power supply voltage / Fan error / Software error</li> </ul>
	Filter stuck detection output *1 : Filter stuck detection output turns OFF with Filter stuck. (Normally, Filter stuck detection output is ON.)
	30 VDC, 50 mA max.
Functions	Manual Air volume selectable (Level 1 to 5), Air volume selectable by ON/OFF signal Input or by RS-422/ RS-485 communication, Multi connection up to 9 units, Filter stuck detection function *1
Ambient temperature	Operating and storage: 0 to 40°C (with no icing or condensation
Ambient humidity	Operating and storage: 35 to 85% (with no condensation)
Usage environment	Pollution degree 2
Weight (packed state)	Approx. 12.5 kg (approx. 17 kg)
Accessories	Instruction sheet, Sealing parts, Mounting screws (M6X45 8 pieces), I/O connector (XW4B-10B1-H1),

\*1 ZN-A6112P: With filter stuck detection function

## Part Names and Functions



(1) Power supply / input terminals / output terminals Terminals for power input and alarm output

For wire used for a terminal block, consider the following.

al No. Input/Output Signal
+ power (24 VDC) *1
0V
NC (Not Used)
Air volume selectable input
by ON / OFF Input *2
0V (For terminal 4 and 5)
Fan operation output *3
Filter stuck detection output *4
NC (Not Used)
COMMON (For terminal 7 and 8)

\*1 Use the cable of 10A or more in permissible current.

\*2 About Air volume selectable input

Air volume selectable input is a contact input. You can select Air volume level by opening or closing with terminal 6. (See the table below.)

Terminal 4	Terminal 5	Air volume level
Open	Open	Air volume level 0
Close	Open	Air volume level 1
Open	Close	Air volume level 3
Close	Close	Air volume level 5

Do not apply the voltage to input terminal 4, 5 and 6. Doing so may damage the Unit.

#### \*3 About Fan operation output

Fan operation output turns OFF, when one of the followings happens. (Normally, Fan operation output is ON.)

- (Check the indicators to find out which one is happening. Refer to
- "Indicators lighting pattern")
- Incorrect power supply voltage
- Fan error
- Software error
- \*4 ZN-A6112P

(2), (3)Terminal for communication (COMMUNICATION PORT) You can select Air volume level by RS-422/RS-485 communication.

Contact your OMRON representative in detail. During RS-422 communication, 24 VDC is supplied to (3)MASTER side communication terminal (RJ-45) pin No.8. Do not connect Ethernet. The

equipment might be damaged. When connecting multiple ZN-As, connect the (2)SLAVE side to the next (3)MASTER side. (Don't connect the (3)Master side to each other.) Use straight type LAN cables for connecting between multiple ZN-As by

RS-422/RS-485 communication.

The cable length between devices must be 30m and less. The cables must be 100 m and less in total length.

(4) DIP switch (Default All SW:OFF)

Use this DIP switch SW1 & 2 when selecting air volume switching method. You can change RS-422/RS-485 transmission rate by SW 3 & 4. Contact your OMRON representative in detail. With SW 5, RS-422 communication and RS-485 communication can be changed. (OFF:RS-422 ON:RS-485) With ON/OFF signal input mode, when SW 6 is ON, air volume is held for five minutes as air volume gets switched down.

DIP SW1	Main body label	
OFF	MANUAL	Air volume is switched manually (air v
OFF	I/O	Air volume is selected by ON/OFF sig
ON	REMOTE	Air volume is selected by RS-422/RS The air volume is automatically control
ON	REMOTE	ZN-SF (sold separately). Contact you
	OFF OFF ON	OFF MANUAL OFF I/O ON REMOTE



- (5) ID rotary switch (Default ID "1") Set an ID "1" when ZN-A6112 used alone. Set an ID "1" when using ZN-A6112 alone. Need to set the IDs of multiple ZN-As when they are controlled by Interface Unit ZN-SF (sold separately) or by RS-422/RS-485 communication. When the ZN-A is controlled by RS-422/RS-485 communication or Air Particle Sensor ZN-PDA, contact your OMRON representative in detail.
- (6) AC inlet AC power supply cable is connected. Use the specified AC power supply cable. (ZN9-AC Ratings 125 V 7 A) When using the product with 200V,
  - cable. (ZN9-AC Ratings 125 V 7 A) When using the product with 200V, contact your OMRON representative.
- (7) Power indicator Green lit for normal operation. Green flashing for standby mode.
- (8) ON/OFF switch

Switches the unit between the run and standby modes.

- (9) Alarm indicator Red lit or flashing according to error. Refer to "Indicators lighting pattern".
- (10) Air volume level indicator This indicator indicates the air volume level. (blue)
- (11) Air volume switch button
  - Each press of this button switches the air volume as follows:

 $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$ 

\* When the DIP switch terminal 1 or 2 at (4) above is set to ON, the air volume is not switched even if this button is pressed.

#### Indicators lighting pattern

The lighting pattern and color of these indicators notifies the operator of the state of the ZN-A6112.

No	Indicator Lighting Pattern and Color	State
1	(7) Green lit	Normal operation
2	(7) Green flashing	Standby mode
3	(9) Red flashing + (10) air volume level 1 (blue) lit	Incorrect power supply voltage
4	(9) Red flashing + (10) air volume level 1 (blue) lit	Fan over current error *1
5	(9) Red flashing + (10) air volume level 3 (blue) lit	Fan rotation error *1
6	(9) Red flashing + (10) air volume level 4 (blue) lit	Product life of fan is over. *1
7	(9) Red flashing + (10) air volume level 5 (blue) lit	Software error *1
8	(9) Red flashing + (10) air volume level from 5 to 1 (blue) lit sequentially	Pre-filter is clogged. *2 Clean pre-filter.
9	(9) Red flashing + (10) air volume level from 1 to 5 (blue) lit sequentially	HEPA filter is clogged. *2 Replace HEPA filter.

\*1 If turning the power supply OFF then back ON does not remedy the problem, contact your OMRON representative.

\*2 Only ZN-A6112P

Main body label



Air volume switching method.
volume switching button on body).
ignal input.
S-485 communication.
rolled by feedback from Air Particle Sensor ZN-PDA and Interface Unit
ur OMRON representative in detail.



#### (12) Pre-filter cover

This cover is for fixing the pre-filter. When performing maintenance on the pre-filter, turn this cover to remove it.

#### (13) Pre-filter

This filter is for removing large dust particles. Periodically remove dust from the pre-filter. Before performing maintenance, always turn the power supply OFF, and make sure that the fan has stopped rotating.

#### (14) HEPA filter

Before replacing the filter, always pull out the power supply plug, and make sure that the fan has stopped rotating.

#### (15) Grip

This is for carrying the product.

- (16) Hole for filter stuck detection (For ZN-A6112P)
  - This is for filter stuck detection function. Do not cover the hole and not push

#### Input



#### Output



#### Installation

When the Unit is mounted on a clean booth surface, firmly mount it using M6 screws. (tightening torque of 4.3 to 4.8 N·m)

When using the mounting screws (provided), use a mounting panel of thickness 30 mm or less, and thoroughly check the strength of the installation surface.

- Allow at least 110 mm of space above the air inlet to ensure good intake of air. Allow at least 130 mm of space at side of AC inlet for power supply cable.
- Do not support or lift up the body by only its grating on the bottom surface. Do not install the Unit with the air outlet facing up. Doing so may damage the Unit.
- Use the sealing parts (provided) to prevent air from escaping between the body and the installation surface.
- · Allow at least 100 mm of space under the air outlet to ensure release of air.







#### Maintenance

- · Before replacing HEPA filter, always pull out the power supply plug, and make sure that the fan has stopped rotating.
- When replacing the filter, do not touch the electrical circuits inside the body. Do not support or lift up the body by only its grating on the bottom surface.
- Never touch HEPA filter by its surface. Doing so might damage the filter, resulting in loss of filtering capabilities.
- Do not drop nor subject HEPA filter to shock.
- Doing so might damage the filter, resulting in a loss of filtering capabilities. When the filter stuck detection display turns ON (Only ZN-A6112P, refer to the item 3 of "Indicators lighting pattern"), clean pre-filter or replace the
- HEPA filter after confirming whether foreign objects block inlet port or air supply port. Air supply performance will be decreased by using the product with the filter

clogged.

- After cleaning pre-filter and replacing HEPA filter, it takes about a few minute until the filter stuck detection display turns OFF.
- · Periodically remove dust from the pre-filter. The dust can be removed by a cleaner or washed out.
- · Do not remove HEPA filter except for replacing the filter.

#### Replacing Filter

#### 1. Replacing Pre-filter

- Replace a damaged pre-filter with a new one (ZN9-APF61).
- (1) Pull out the power supply plug, and make sure that the fan has stopped rotating
- (2) Remove the pre-filter cover from the upper body section by turning it anticlockwise.
- If you find it difficult to remove the cover, lightly press it down while turning it. (3) Remove the pre-filter.
- (4) Clean the pre-filter, and return it to its original position. Next, attach the pre-filter cover to the upper body section by turning it clockwise. When doing this, align the groove of the pre-filter cover with the tab on the body. Last of all, make sure that it does not come loose.



#### Dimensions







PANEL CUT SIZE

- 2. Replacing HEPA Filter
- Replacement filter: ZN9-AHP61
- Never touch the filter by its surface.
- (1) Pull out the power supply plug, and make sure that the fan has stopped rotating.
- (2) Take off the screws, then remove the HEPA filter.
- (3) Remove the fall prevention hook from the new HEPA filter.
- (4) Attach the fall prevention hook to the new HEPA filter.
- (5) Set the new filter to the main body and tighten the screws.
- During this step, pay attention to the position of the filter fall prevention hook hole and the main body fall prevention hook. The tightening torque is 1.2 to 1.5 N·m.





(unit:mm)

#### Filter Stuck Detection Function (For ZN-A6112P)

• When the filter stuck detection display turns ON (refer to "Indicators lighting pattern"), replace the HEPA filter after confirming whether foreign objects block inlet port or air supply port.

Air supply performance will be decreased by using the product with the filter clogged.

After cleaning pre-filter and replacing HEPA filter, it takes about one minute until the filter stuck detection display turns OFF.

- The filter stuck detection display is set to turn ON when the air volume becomes about 30% to 60% of the initial value. The threshold level of filter stuck detection display will be changed by the influence of ambient environment.
- When POWER OFF or air volume is switched, the filter stuck detection is reset. It takes about 15 minutes to detect the filter stuck detection again.

## Suitability for Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS. AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

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