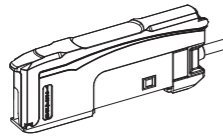


E3C-LDA□□N Series

INSTRUCTION SHEET

Thank you for selecting an OMRON product. This sheet primarily describes precautions required in installing and operating the product.

- A specialist who has the knowledge of electricity must treat the product.
- Please read this manual carefully, and use it correctly after thoroughly understanding the product.
- Please keep this manual properly for future reference whenever it is necessary.



The following notice applies only to products that carry the CE mark:

NOTICE

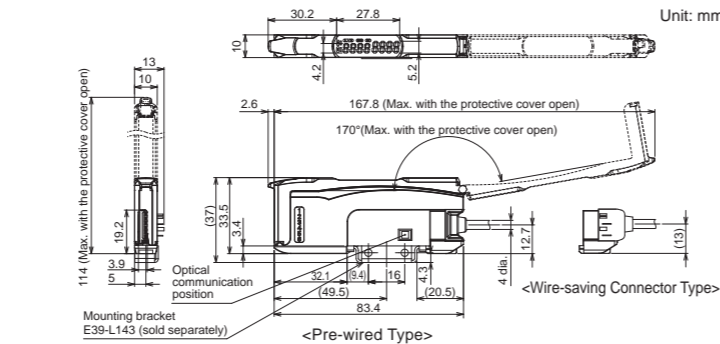
In a residential environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



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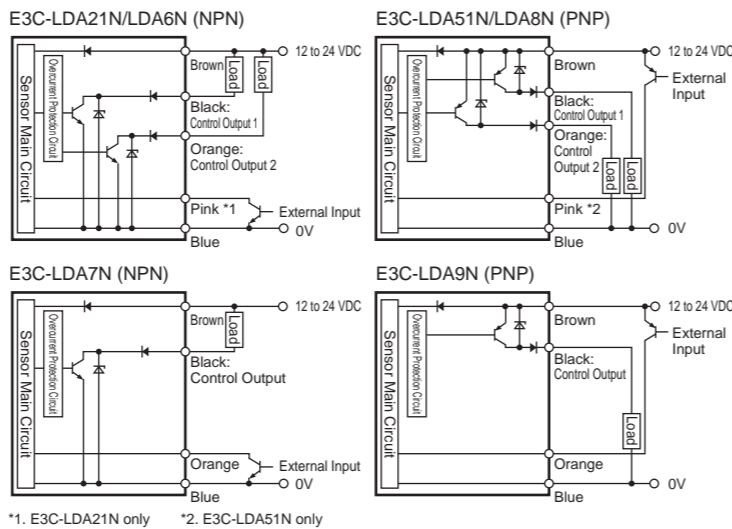
1 Installation

1-1 Dimensions

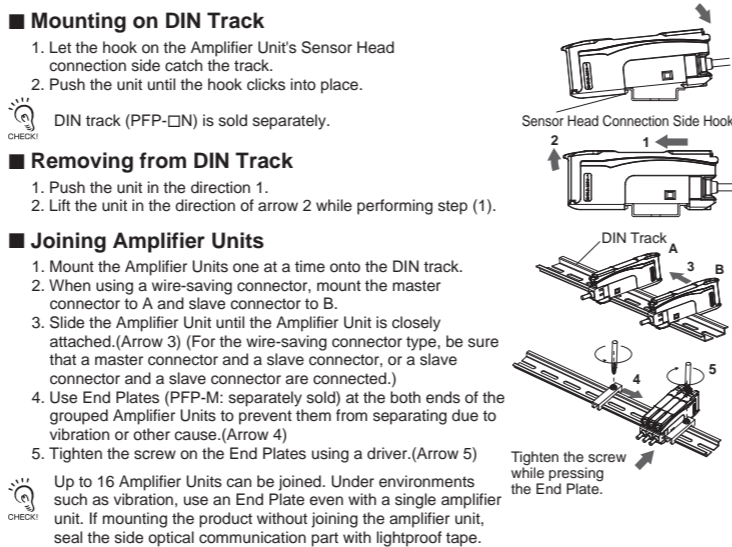


Dimensions in parentheses () indicates the ones with related components. The cover could come off if it is tilted by 170 degrees or more.

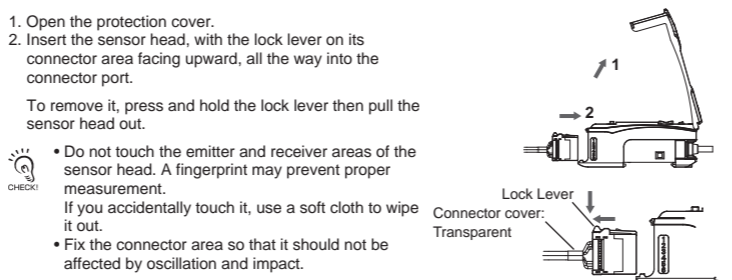
1-2 Input / Output Circuit Diagram



1-3 Mounting the Amplifier Unit

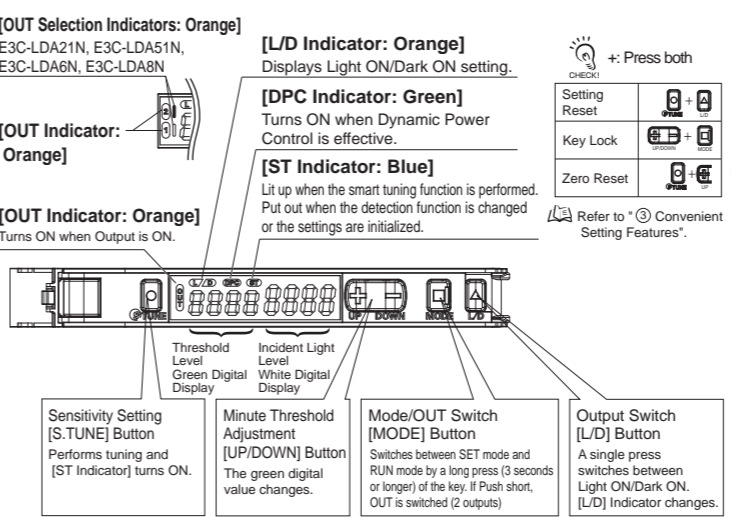


1-4 Mounting the sensor head

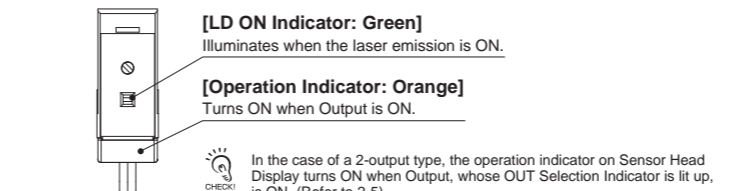


2 Settings

2-1 Setting and Display Overview



2-2 Sensor Head Display



2-6 Smart Tuning [Easy Sensitivity Setting]

Basic Setting

For Output 2, light intensity is not adjusted during tuning. To adjust light intensity to the power tuning level, switch to Output 1. (Only the model with two-output type)

2-point Tuning

Received light intensity setting: Adjust the higher one out of Point 1 and Point 2 to the power tuning level. Threshold setting: Set to the middle between Point 1 and Point 2 received light intensity values.

Execution can be done even if the order of workpiece exists/not exist is reversed.

Workpiece is present → Moving the finger off the button displays "2Pnt". → Workpiece is absent → Setting is Completed

Adjusting with a Passing Workpiece

Full Auto Tuning

Received light intensity setting: Adjust the maximum received light amount when the button is pressed to the power tuning level. Threshold setting: Set to the middle between the maximum and minimum received light amount values when the button is pressed.

Hold for 3 seconds or longer → Setting is Completed

Detecting a Transparent or Microscopic Object (Setting a Threshold with Received Light Intensity Ratio)

Percentage Tuning

Received light intensity setting: Adjust the received light amount without workpiece to the power tuning level. Threshold setting: Light intensity level that has been set according to the setting above x (1 + Percentage tuning level)

When percent tuning setting is ON, only power tuning can be performed. Other tunings cannot be performed.

Percentage tuning setting ON → Setting is Completed

Restoring the Received Light Intensity Weakened due to Dust or Dirt / Restoring the Saturated Received Light Intensity

Power Tuning

Received light intensity setting: Adjust the received light amount when the button is pressed to the power tuning level. Threshold setting: Not changed.

Workpiece is present → Setting is Completed

Diffuse reflection: Perform tuning with the presence of a sensing object. Regressive reflection: Perform tuning without the presence of a sensing object.

Smart Tuning Error

Error / Display	Cause	Remedy
Near Error nErr Err	The light level difference between Points 1 and 2 are extremely small.	• Change the detection function to the mode of slower response time. • Move the Sensor Head closer to the sensing object.
Over Error ouErr Err	Threshold set by the tuning is too high.	• Lower the power tuning level or the percentage tuning level.
Low Error Lo Err	Incident light level is too low.	• Move the Sensor Head closer to the sensing object. • Increase the percentage tuning level.

WARNING 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.

Warning Indications

WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purpose.

Do not use the product with voltage in excess of the rated voltage. Excess voltage may result in malfunction or fire.

Never use the product with an AC power supply. Otherwise, explosion may result.

PRECAUTIONS FOR SAFE USE

- The following precautions must be observed to ensure safe operation of the product. Doing so may cause damage or fire.
- Do not install the product in the following locations.
 - Locations subject to direct sunlight
 - Locations subject to condensation due to high humidity
 - Locations subject to corrosive gas
 - Locations subject to vibration or mechanical shocks exceeding the rated values
 - Locations subject to exposure to water, oil, chemicals
 - Locations subject to steam
 - Locations subjected to strong magnetic field or electric field
 - Do not use the product in environments subject to flammable or explosive gases.
 - Do not use the product in any atmosphere or environment that exceeds the ratings.
 - To secure the safety of operation and maintenance, do not install the product close to high-voltage devices and power devices.
 - 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 apply any load exceeding the ratings. Otherwise damage or fire may result.
 - Do not short the load. Otherwise damage or fire may result.
 - Connect the load correctly.
 - Do not use the product if the case is damaged.
 - Burn injury may occur. The product surface temperature rises depending on application conditions, such as the ambient temperature and the power supply voltage. Attention must be paid during operation or cleaning.
 - When setting the sensor, be sure to check safety such as by stopping the equipment.
 - Be sure to turn off the power supply before connecting or disconnecting wires.
 - Do not attempt to disassemble, repair, or modify the product in any way.
 - When disposing of the product, treat it as industrial waste.
 - Do not use the Sensor in water, rainfall, or outdoors.
 - When joining the product, ensure to connect them to the same power supply and turn the power on at the same time. The joined unit may not function fully if a separate power supply is used.
 - If you notice an abnormal condition such as a strange odor, extreme heating of the unit, or smoke, immediately stop using the product, turn off the power, and consult your dealer.
 - Sensor heads other than E3C-LDA□□N are not usable. If other models are connected, there is a risk of damage.

PRECAUTIONS FOR CORRECT USE

- Do not miswire such as the polarity of the power supply.
- Be sure to mount the unit to the DIN track until it clicks.
- When using a connector type product, place a protective label (provided with the E3X-CN series) on the power supply connecting terminals that are not used, to prevent electric shock or short circuit.
- The length for the cable extension must be 30 m or less.
- Be sure to use a cable of at least 0.3 mm² for extension.
- Do not apply the forces on the cord exceeding the following limits: Pull: 40 N; torque: 0.1 N-m; pressure: 20 N; bending: 29.4 N
- Do not apply excessive force such as tension, compression or torsion to the connector of the sensor head that is fixed to the amplifier unit.
- Always keep the protective cover in place when using the product. Not doing so may cause malfunction.
- It may take time until the received light intensity and measured value become stable immediately after the power is turned on depending on use environment.
- The product is ready to operate 300 ms after the power supply is turned ON.
- The Mobile Console E3X-MC11, E3X-MC11-SV2 and E3X-MC11-S cannot be connected.
- The mutual interference prevention function operates for E3C-LDA□□N. For other models, the product results in mutual interference.
- Optical communication cannot be performed with a model other than E3C-LDA□□N. If other models are connected and used, the product may malfunction.
- If the unit receives excessive sensor light, the mutual interference prevention function may not work properly, resulting in malfunction of the unit. In such case, increase the threshold.
- The Communication Unit E3X-DRT21-S, E3X-CRT, E3X-ECT and E3NW cannot be connected.
- Do not use thinner, benzene, acetone, and lamp oil for cleaning.
- The amplifier unit uses EEPROM memory to save the configuration information. If the memory rewritable time exceeds its limit (100,000 times), the memory error will be displayed and the amplifier unit needs to be replaced. Memory data is rewritten, for each operation, three times when tuning, processing zero reset, and changing the hysteresis width, and ten times when initializing the settings.

If a crossed out whee bin symbol is labeled on the amplifier unit, dispose in accordance with applicable regulations.

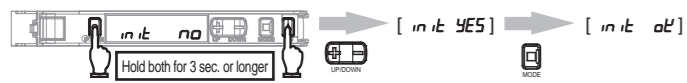
Checking the Package Content

• Amplifier Unit: 1 • Instruction Sheet, Compliance sheet

3 Convenient Setting Features

Initializing Settings

● **Setting Reset** Initialize all settings to the factory-set defaults.



Preventing Malfunction

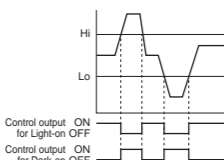
● **Key Lock Function** Disables all the button operations.



For Output When Received Light Intensity is Within the Area

● **Area Detection Mode**

- Select [Setting Mode] - [OUT1 Mode] - [Area Detection Mode]. Pressing the [MODE] button for 3 seconds or longer exits the [SET mode].
- Press the [MODE] button in [Measurement Mode] to display "OUT1 HIGH" and "OUT1 LOW". Green digital indicator shows HIGH and LOW.
- Provide Smart Tuning to each of HIGH/LOW thresholds by pressing the [S.TUNE] button.



In tuning by percent, the thresholds are set as follows:
 HIGH: Received light intensity in 3. + Received light intensity in 3. x Absolute value of percent tuning level
 LOW: Received light intensity in 3. - Received light intensity in 3. x Absolute value of percent tuning level
 Set HIGH/LOW thresholds HIGH > LOW.

4 Maintenance

4-1 Troubleshooting

● **Troubleshooting**

Problem	Cause	Remedy
Nothing is shown on the indication.	No power supplied or the cable broken	Check the wiring, connector connection, power supply voltage and power supply capacity again. Refer to "1-2 Input/Output Circuit Diagram"
Sensing / Detection not possible despite the minimum threshold level	Dust or dirt influences.	Wipe off any dirt on the light emitting/receiving surface of the sensor head. Refer to "5 Detailed Settings".
The OUT indicator blinking	Mutual interference or other reason.	Check the Amplifier Units mounted in a group and turn ON the power again. Refer to "1-3 Mounting Amplifier Unit"
Incident light level displayed in a negative value.	The zero reset function is enabled.	Cancel the zero reset function. Refer to "3 Convenient Setting Features"
Laser is not emitted.	The sensor head is not properly connected. The external input is short-circuited in "emission OFF" condition.	Check the wiring and external input settings. Refer to "1-2 Input/Output Circuit Diagram" Refer to "5 Detailed Settings".
[LoFF] appears in the display.	-	Reset the settings. Refer to "3 Convenient Setting Features"
Lost tracking of the settings made.	-	-
The light intensity level does not change	The sensor head cable may be disconnected or broken.	Check the sensor head connection. Refer to "1-4 Mounting the sensor head"
Laser light flashes	-	-

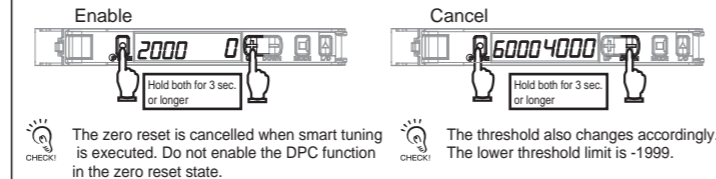
● **Error Display**

Error Name / Display	Cause	Remedy
DPC Error * 2000 4000	The incident light level has deteriorated due to dust or dirt.	Wipe the dust off the sensor head detection surface or other relevant areas and recover the original incident light level. Then, perform Smart Tuning. Refer to "2-6 Smart Tuning"
EEPROM Error * Represents a number E-NE *	Failed internal data read/out.	Turn ON the power again. Reset the settings if the error is not corrected. If the problem still remains, replace the amplifier unit; this is memory malfunction such as rewritable time exceedance. Refer to "3 Convenient Setting Features"
Lock ON LoL on	The key lock function enabled	Cancel the key lock function. Refer to "3 Convenient Setting Features"
Load short circuit detection error E-St	Overcurrent is carried to the control output.	Check wiring and connector connection again. Refer to "1-2 Input/Output Circuit Diagram" and "4-2 Ratings and Specifications"

* The DPC indicator blinks.

Returning Received Light Intensity Display to "0"

● **Zero Reset Function**

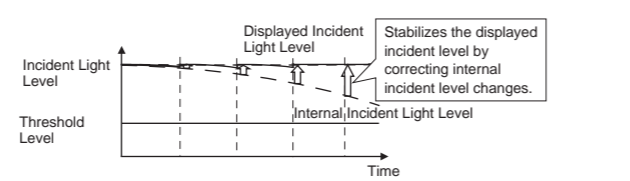
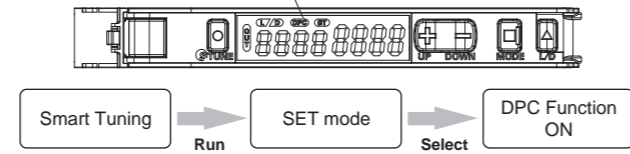


The zero reset is cancelled when smart tuning is executed. Do not enable the DPC function in the zero reset state.
 The threshold also changes accordingly. The lower threshold limit is -1999.

For Stable Detection Regardless of Received Light Intensity Changed due to Dust or Dirt

● **DPC Function**

Use of the DPC function with regressive reflection model is recommended.
 The DPC indicator turns ON when the DPC function is effective.



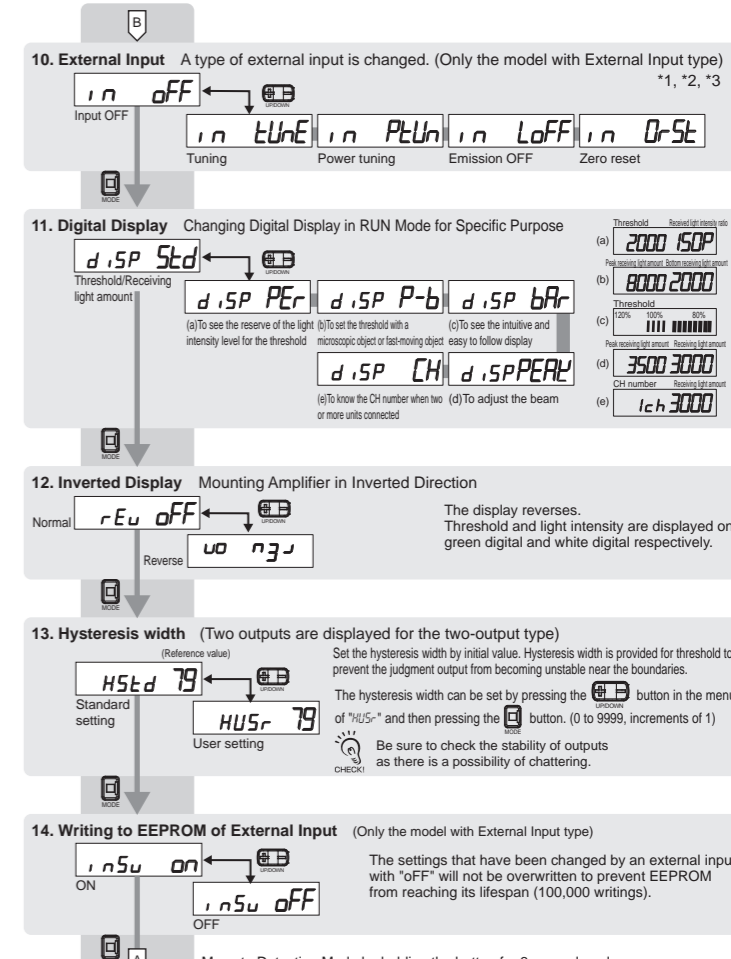
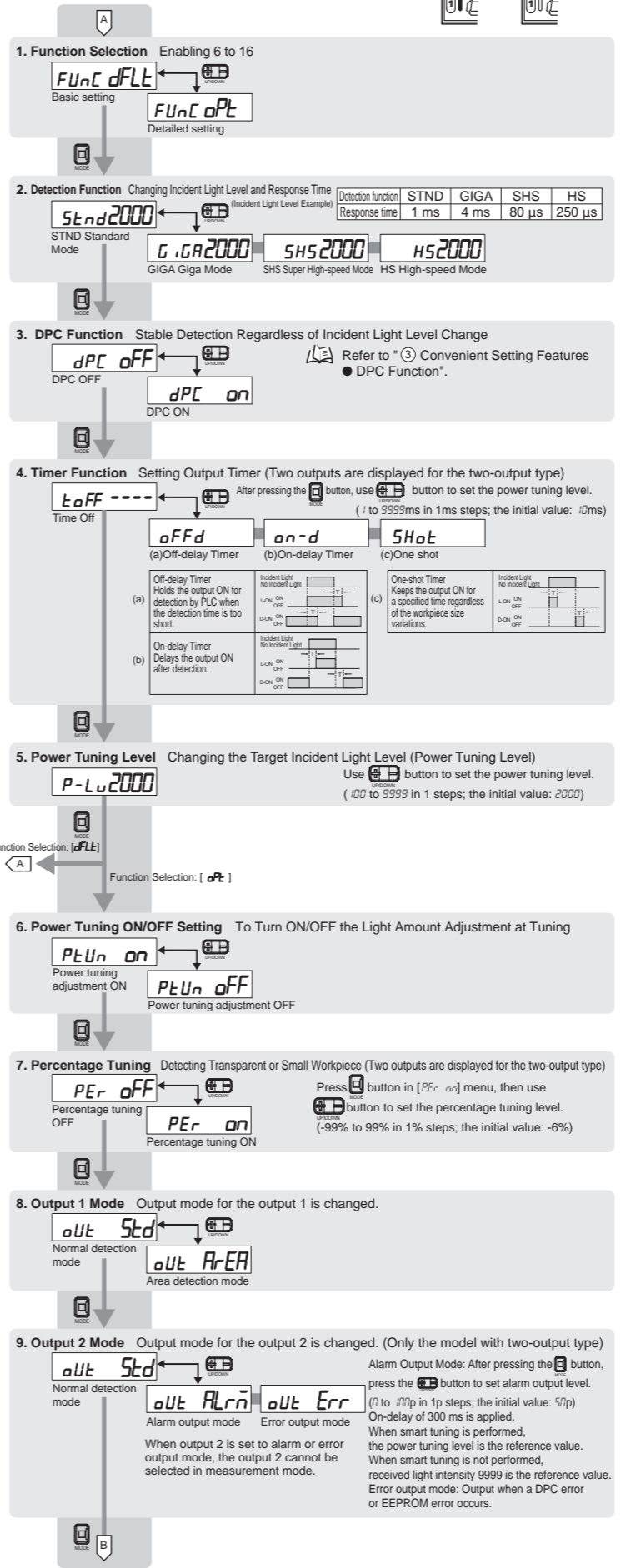
Refer to "2 Settings".
 When smart tuning is in error / output 1 is Area Detection Mode / Detection Function is changed / power tuning adjustment is turned OFF, the DPC function is disabled. When the DPC function is disabled from the enabled state, perform the tuning again or reset the threshold.

5 Detailed Settings

Hold [MODE] button for 3 seconds or longer to enter SET mode.

The OUT Selection Indicators show items for Output1/Output 2 individually for each output.

SET mode provides the following function settings. The initial display shown after transition from one function to another represents the factory default.



*1. The signal input time is as follows:
 ■ External input setting: tuning
 ■ External input setting: Tuning starts with the signal input time of 25 ms or more during power tuning.
 ■ External input setting: At the time of zero reset
 ■ External input setting: Operation starts with the signal input time of 25 ms or more with emitter OFF, and stops by releasing the signal.
 *2. When performing a percentage tuning on the external input, turn it ON as described in "7. Percentage Tuning Setting"
 *3. When changing the type of external input, release the external input signal before changing it.

4-2 Ratings and Specifications

Model	NPN output	E3C-LDA21N	E3C-LDA6N	E3C-LDA7N
	PNP output	E3C-LDA51N	E3C-LDA8N	E3C-LDA9N
Applicable sensor head	E3C-L□□□□			
Control output	2	2	1	1
External input *1	1	0	1	1
Connection method *2	Pre-wired type		Wire-saving connector type	
Power supply voltage	12 to 24 VDC ±10%, ripple (p-p) 10% max.			
Power consumption	Power consumption: 1080 mW max. (when the power supply voltage is 24 V, the current consumption is 45 mA max.)			
Control output	Load power supply voltage: 26.4 VDC, open collector output type (depends on the NPN/PNP output) Load current: 100 mA max. for 1 to 3 units use, 20 mA max. for 4 or more units joined. Residual voltage: Load current less than 10 mA: 1 V max., load current 10 to 100 mA: 2 V max. Off-state current: 0.1 mA max.			
Protection circuit	Power supply reverse polarity protection, output short-circuit protection and output incorrect connection protection			
Maximum connectable Units	16 units			
Number of units for mutual interference prevention *3	Super-high-speed mode (SHS)	0 (The communication and mutual interference prevention functions are disabled if the SHS mode is selected for detection function.)		
	High-speed mode (HS)	10 units		
	Standard mode (Strd)	10 units		
	Giga mode (GIGA)	10 units		
Surrounding air Temperature range	Operating: 1 to 2 amplifiers connected: -25°C to 55°C, 3 to 10 amplifiers connected: -25°C to 50°C, 11 to 16 amplifiers connected: -25°C to 45°C Storage: -30°C to 70°C (with no icing or condensation)			
Ambient humidity range	Operating and storage: 35 to 85% (with no condensation) within the surrounding air temperature range shown above			
Altitude	2000m max.			
Installation environment	Pollution degree 3 (as per IEC60947-1)			
Insulation resistance	20 MΩ min. (at 500 VDC)			
Dielectric strength	1,000 VAC, 50/60 Hz, 1 minute			
Vibration resistance	10 to 55 Hz with a 1.5mm double amplitude for 2 hrs each in X, Y and Z directions			
Shock resistance	500 m/s ² , for 3 times each in X, Y and Z directions			
Weight (packed state/sensor)	Approx. 115 g/Approx. 75 g	Approx. 60 g/Approx. 20 g		
Materials	Case and cover: Polycarbonate (PC), Cable covering: PVC			

*1. Details on external inputs are as follows:

	Contact input (Relay or switch)	Non-contact input (Transistor)	Input time *1-1
NPN output	ON: Short circuit to 0V (Outflow current: 1 mA max.) OFF: Open or short circuit to Vcc	ON: 1.5 V max. (Outflow current: 1 mA max.) OFF: Vcc-1.5 V to Vcc (Leakage current: 0.1 mA max.)	ON: 9 ms min. OFF: 20 ms min.
PNP output	ON: Short circuit to Vcc (Sink current: 3 mA max.) OFF: Open or short circuit to 0V	ON: Vcc-1.5 V to Vcc (Sink current: 3 mA max.) OFF: 1.5 V max. (Leakage current: 0.1 mA max.)	

*1-1 Input time is 25 ms or more for both ON/OFF only when tuning (tUnE) is selected in the external input.
 *2. Separately purchase the E3X-CN21 Master Connector (4-conductor) when using this product as a single unit or as a master unit, or the E3X-CN22 Slave Connector (2-conductor) when using as a slave unit. Either Connector can be used.
 *3. Even if tuning is implemented, the number of units will not change.
 In standard mode and giga mode, set the threshold level to 400 or more.

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.

OMRON Corporation Industrial Automation Company
 Kyoto, JAPAN Contact: www.ia.omron.com

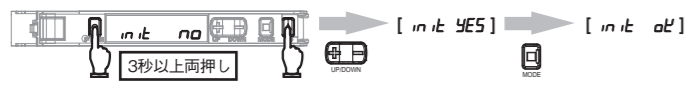
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 Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

D Jun, 2019

3 便利な設定編

設定を初期化したい

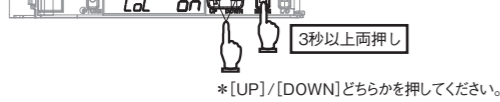
- 設定初期化** 設定内容を初期化し、工場出荷時の状態に戻します。



誤操作を防ぎたい

- キーロック** ボタン操作を全て無効にします。

実行/解除(同手順)

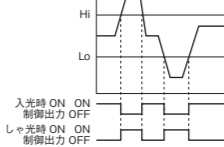


*[UP]/[DOWN]どちらかを押してください。

受光量がエリア内にあるときに出力したい

- エリア検出モード**

1. [設定モード]→[出力1モード]→[エリア検出モード]を選択します。
[MODE] ボタン3秒以上押しで[設定モード]を抜けます。
2. [検出モード]にて[MODE]ボタンを短押しし、OUT1 HIGH と OUT1 LOW を表示させます。緑デジタルにHIGHとLOWが表示されます。
3. HIGH/LOWしきい値に対して、それぞれ[S.TUNE]ボタンを押して、スマートチューニングを行います。



パーセントチューニング時:下記のようにしきい値が設定されます。
HIGH:3.の受光量+3.の受光量×パーセントチューニングレベルの絶対値
LOW:3.の受光量-3.の受光量×パーセントチューニングレベルの絶対値
HIGH/LOWしきい値はHIGH>LOWとなるように設定してください。

4 メンテナンス編

4-1 トラブルシューティング

- トラブルシューティング**

トラブル	原因	対応方法
表示部に何も表示しない	電源が入っていないか、断線しています。	配線及びコネクタ接続の見直し、電源電圧・電源容量の見直しを行ってください。 ① [1-2 入出力回路図]
しきい値が最小でも検知・検出できない	ほこりや汚れが影響しています。	センサヘッドの受光面の汚れを拭取ってください。 ⑤ [⑤ 詳細設定編]
OUT表示灯が点滅する	相互干渉等が影響しています。	アンプの接続状態を確認して、電源を再投入してください。 ① [1-3 アンプユニットの取り付け]
受光量がー(マイナス)表示になる	ゼロリセット機能が有効になっています。	ゼロリセットを解除してください。 ③ [③ 便利な設定編]
レーザー光が投光されない	センサヘッドを正しく接続できていません。外部入力を入出力OFFに設定した状態で、外部入力に短絡しています。	配線と外部入力設定の見直しを行ってください。 ① [1-2 入出力回路図] ⑤ [⑤ 詳細設定編]
画面に「LoFF」が表示される	設定が分からなくなりました。	設定初期化を行ってください。 ③ [③ 便利な設定編]
受光量に変化しない	センサヘッドのケーブルが抜れたり、断線していませんか？	センサヘッドの接続を見直してください。 ① [1-4 センサヘッドの取付け]
レーザー光が点滅する		

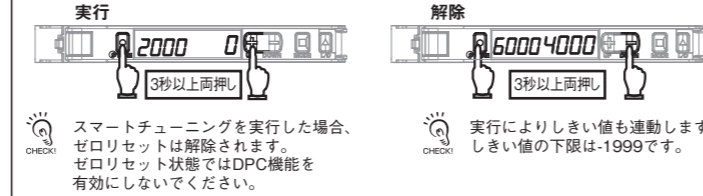
- エラー表示**

エラー名/表示	原因	対応方法
DPCエラー 2000 4000	受光量がほこりや汚れにより低下しています。	センサヘッドの検出面などを拭き取り、受光量を復帰させ、再度スマートチューニングしてください。 ② [2-6 スマートチューニング]
EEPROMエラー E-NE *	内部データの読み出し/書き込みに失敗しています。	電源を再投入してください。復帰しない場合は、設定初期化を行ってください。それでも改善しない場合は、書き換え回数オーバーなどのメモリ異常ですので、アンプユニットを交換してください。 ③ [③ 便利な設定編]
ロックオン LoC on	キーロックが有効になっています。	キーロックを解除してください。 ③ [③ 便利な設定編]
負荷短絡検知エラー E-St	制御出力に過電流が流れています。	配線及びコネクタ接続を見直してください。 ① [1-2 入出力回路図、4-2 定格/仕様]

* DPC表示灯が点滅します。

受光量表示を0にしたい

- ゼロリセット**



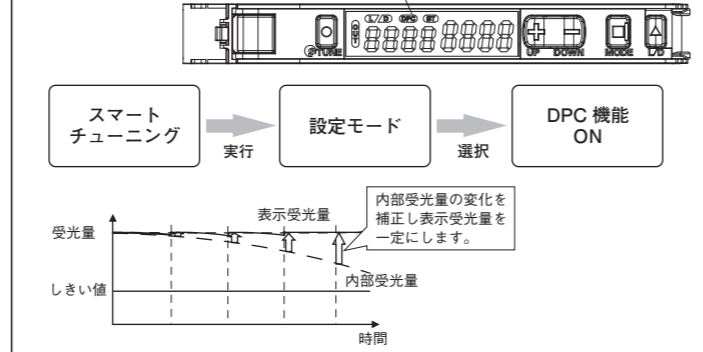
スマートチューニングを実行した場合、ゼロリセットは解除されます。ゼロリセット状態ではDPC機能を有効にしないでください。

ほこりや汚れで受光量に変化しても安定して検出したい

- DPC機能**

DPCは回帰反射形での使用をおすすめします。

DPC機能有効時はDPC表示灯が点灯します



スマートチューニングがエラーだった場合/エリア検出モードの場合/検出機能を変更した場合/パワーチューニング調整をOFFにした場合はDPC機能が無効となります。DPC機能を有効から無効にした場合、再度チューニングを実施、またはしきい値を再設定してください。

4-2 定格/仕様

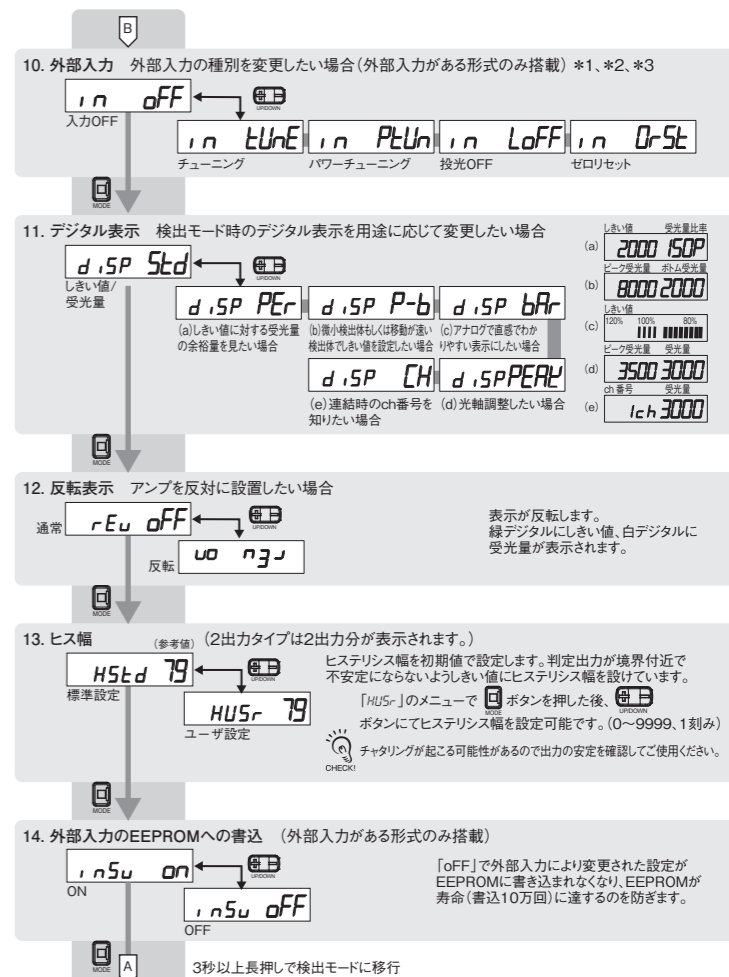
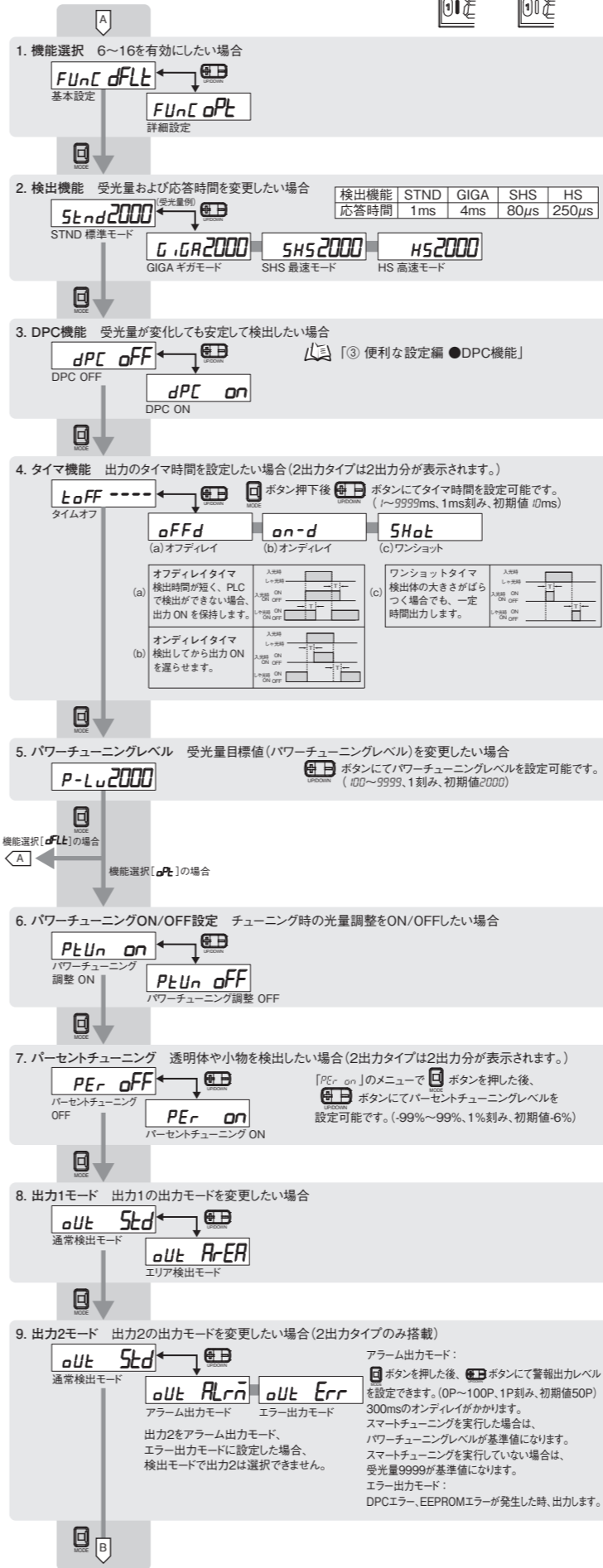
形式	NPN出力 PNP出力	形E3C-LDA21N 形E3C-LDA51N	形E3C-LDA6N 形E3C-LDA8N	形E3C-LDA7N 形E3C-LDA9N
適用センサヘッド	形E3C-L□□□N			
制御出力数	2	2	1	1
外部入力数 *1	1	0	1	1
接続方式 *2	コード引出しタイプ 省配線コネクタタイプ			
電源電圧	DC12~24V±10% リップル10%以下			
消費電力	消費電力1080mW以下(電源電圧24V時 消費電流45mA以下)			
制御出力	負荷電源電圧: DC26.4V以下、オープンコレクタ出力形(NPN/PNP出力によって異なります) 負荷電流: 1~3台使用時 100mA以下、4台以上連続時 20mA以下 残留電圧 負荷電流 10mA未満: 1V以下、負荷電流 10~100mA: 2V以下 オフ状態電流: 0.1mA以下			
保護回路	電源逆接続保護、出力短絡保護、出力逆接続保護			
最大連結台数	16台			
相互干渉防止 *3	最速モード(SHS)	0台 (注)検出機能を最速モード(SHS)に選択した場合は、相互干渉防止機能は無効となります。	高速モード(HS)	10台
	標準モード(Std)	10台	ギガモード(GIGA)	10台
周囲温度範囲	動作時: 1~2台連続時: -25℃~+55℃、3~10台連続時: -25℃~+50℃、11~16台連続時: -25℃~+45℃ 保存時: -30℃~+70℃(ただし、氷結、結露しないこと)			
周囲湿度範囲	動作時・保存時: 上記周囲温度範囲にて、各35~85%RH(ただし、結露しないこと)			
高度	2000m以下			
設置環境	汚染度3(IEC60947-1による)			
絶縁抵抗	20MΩ以上(DC500Vメガにて)			
耐電圧	AC1,000V 50/60Hz 1min			
振動(耐久)	10~55Hz 複振幅 1.5mm X、Y、Z各方向 2h			
衝撃(耐久)	500m/s ² X、Y、Z各方向3回			
質量(梱包/本体)	約115g/約75g 約60g/約20g			
材質	ケース、カバー:ポリカーボネート(PC) ケーブル被覆:PVC			

- *1. 外部入力に関する詳細は、以下となります。
- *1-1 外部入力に関する詳細は、以下となります。
- *2. 単品、親機でご使用の場合はE3X-CN21(親コネクタ4芯)、子機としてご使用の場合はE3X-CN22(子コネクタ2芯)を別途お求めください。どちらのコネクタも使用できます。
- *3. チューニングしても台数に変更はありません。

5 詳細設定編

- ボタンを3秒以上長押しすると設定モードとなります。
- 出力1/出力2別に設定する項目は出力別にOUT選択表示灯が表示します。

設定モードでは以下の機能設定ができます。機能遷移に表示している内容は、工場出荷時の内容です。



- *1. 信号入力時間は以下の通りです。
- *2. 外部入力でのパーセントチューニングを実施したい場合は、7. パーセントチューニングをONに設定したうえで、外部入力でのチューニングを実施してください。
- *3. 外部入力の種別を変更する場合は、外部入力信号を開放したうえで種別を変更してください。

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- 高い信頼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、医療機器、安全装置、その他生命・身体に危険が及ぶ用途)
- 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・財産を扱う用途など)
- 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、電磁的妨害を被る設備、振動・衝撃を受ける設備など)
- カタログ等に記載のない条件や環境での用途

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オムロン株式会社 インダストリアルオートメーションビジネスカンパニー

● 製品に関するお問い合わせ先
お客様相談室

フリーダイヤル **0120-919-066**

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電話 **055-982-5015** (通話料がかかります)

■ 営業時間: 8:00~21:00 ■ 営業日: 365日

● FAXやWebページでもお問い合わせいただけます。
FAX **055-982-5051** / www.fa.omron.co.jp

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A 2014年7月