

H5CX-B□-N
Digital Timer

EN INSTRUCTION MANUAL

Thank you for purchasing the OMRON Product. To ensure the safe application of the Product, read this manual carefully before using the Product and always keep it close at hand when the Product is in use.

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1148308-3B

For details, refer to the latest datasheet (Cat. No. L111).

Suitability for Use

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product. Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product. NEVER USE THE PRODUCTS 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 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.

SAFETY PRECAUTIONS

Keys to Warning Symbols

CAUTION Indicates a potentially hazardous situation which, if not avoided, is likely to result in minor or moderate injury or in property damage.

CAUTION

Do not allow pieces of metal, wire clippings, or fine metallic shavings or fillings from installation to enter the product. Doing so may occasionally result in electric shock, fire, or malfunction.

Minor injury due to explosion may occasionally occur. Do not use the Timer where subject to flammable or explosive gas.

Fire may occasionally occur. Tighten the terminal screws to the rated torque.
H5CX terminals: 6.55 to 7.97 lb-in (0.74 to 0.90 N-m)

Minor injury due to electric shock may occasionally occur. Do not touch any of the terminals while power is being supplied. Be sure to mount the terminal cover after wiring.

Minor electric shock, fire, or malfunction may occasionally occur. Do not disassemble, modify, or repair the Timer or touch internal components.

Precautions for Safe Use

- When mounting the Timer to a panel, tighten the two mounting screws alternately, a little at a time, so as to keep them at an equal tightness. If the panel screws are tightened unequally, water may enter the panel.
- Store the Timer at the specified temperature. If the Timer has been stored at a temperature of less than -10°C, allow the Timer to stand at room temperature for at least 3 hours before use.
- Mounting the Timer side-by-side may reduce the life expectancies of internal components.
- Use the Timer within the specified ranges for the ambient operating temperature and humidity.
- Do not use in the following locations:
 - Locations subject to sudden or extreme changes in temperature.
 - Locations where high humidity may result in condensation.
 - Locations subject to water.
 - Locations subject to oil.
- Do not use this Timer in dusty environments, in locations where corrosive gases are present, or in locations subject to direct sunlight.
- Install the Timer well away from any sources of static electricity, such as pipes transporting molding materials, powders, or liquids.
- Internal elements may be destroyed if a voltage outside the rated voltage range is applied.
- Wire terminal polarity correctly.
- Separate the Timer from sources of noise, such as devices with input signals from power lines carrying noise, and wiring for I/O signals.
- Do not connect more than two crimp terminals to the same terminal.
- Up to two wires of the same size and type can be inserted into a single terminal.
- Use the specified wires for wiring. Applicable Wires: AWG 18 to AWG 22, solid or twisted, copper.
- Install a switch or circuit breaker that allows the operator to immediately turn OFF the power, and label it to clearly indicate its function.
- When the Timer is operated with no-voltage input (NPN input), approximately 14 V is output from the input terminals. Use a sensor that contains a diode.
- Use a switch, relay, or other contact so that the rated power supply voltage will be reached within 0.1 seconds. If the power supply voltage is not reached quickly enough, the Timer may malfunction or outputs may be unstable.
- Use a switch, relay, or other contact to turn the power supply OFF instantaneously. Outputs may malfunction and memory errors may occur if the power supply voltage is decreased gradually.
- When changing the set value during a timing operation, the output will turn ON if the set value is changed as follows because of the use of a constant read-in system:
 - Elapsed time (UP) mode: Present value ≥ Set value
 - Remaining time (DOWN) mode: Elapsed time ≥ Set value (The present value is set to 0.)

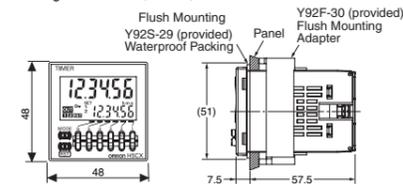
- When in the remaining time mode, the amount the set value is changed is added to or subtracted from the present value. When the set value is 0, the output turns ON the moment the signal is input. The reset operation turns OFF the output. Do not use organic solvents (such as paint thinners or benzene), strong alkali, or strong acids. They will damage the external finish.
- Confirm that indications are working normally, including the backlight LED, and LCD. The indicator LEDs, LCD, and resin parts may deteriorate more quickly depending on the application environment, preventing normal indications. Periodic inspection and replacement are required.
- The waterproof packing may deteriorate, shrink, or harden depending on the application environment. Periodic inspection and replacement are required.

Precautions for Correct Use

- H5CX models with a 12 to 24-VDC power supply use a transformer-free power supply method in which the power supply terminals are not isolated from the signal input terminals. If a non-isolating DC power supply is used, unwanted current paths may occasionally burn or destroy internal components depending on the wiring. Always check the wiring sufficiently before use.
- An inrush current of approx. 10 A will flow for a short time when the power supply is turned ON. If the capacity of the power supply is not sufficient, the Timer may not start. Be sure to use a power supply with sufficient capacity.
- Maintain voltage fluctuations in the power supply within the specified operating voltage range.
- To allow for the startup time of peripheral devices (sensors, etc.), the Timer starts timing operation between 200 to 250 ms after power is turned ON. For this reason, in operations where timing starts from power ON, the time display will actually start from 249 ms. If the set value is 249 ms or less, the time until output turns ON will be a fixed value between 200 and 250. The present value display will start from 250 ms. (Normal operation is possible for set values of 250 ms or more.) In applications where a set value of 249 ms or less is required, use start timing with signal input.
- The input signal will not be accepted after 5 to 505 ms has elapsed from when the power supply is turned OFF.
- Inrush current generated by turning ON or OFF the power supply may deteriorate contacts on the power supply circuit. Turn ON or OFF to a device with the rated current of more than 10 A.
- Make sure that all settings are appropriate for the application. Unexpected operation resulting in property damage or accidents may occur if the settings are not appropriate.
- Do not leave the Timer for long periods of time at a high temperature with output current in the ON state. Doing so may result in the premature deterioration of internal components (e.g., electrolytic capacitors).
- EEPROM is used as memory when the power is interrupted. The write life of the EEPROM is 100,000 writes. The EEPROM is written when the power is turned OFF or when switching from function setting mode to run mode.
- Dispose of the product according to local ordinances as they apply.

Mounting and Panel-cutout Dimensions Diagram

Mounting Dimensions (Units: mm)

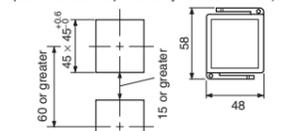


Package Contents

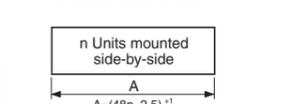
- Digital Timer
- Instruction manual (this document)
- Mounting Adapter, Waterproof Packing, Terminal Cover

Panel-cutout Dimensions Diagram (Units: mm)
Panel cutouts are as shown below. (according to DIN43700)

To allow easier operation, it is recommended that Adapters be mounted so that the gap between sides with hooks is at least 15 mm (i.e., with the panel cutouts separated by at least 60 mm).



Note 1: The mounting panel thickness should be 1 to 5 mm.
Note 2: It is possible to mount Timers side by side, but only in the direction without the hooks.



Note 3: If the Timers are mounted side by side, water resistance will be lost.

Ratings (Specifications)

Power supply voltage	12 to 24 VDC
Allowable voltage fluctuation range	90% to 110% rated supply voltage
Power consumption	Approx. 2.3 W
Operating temperature range	-10 to 55°C (-10 to 50°C if Timers are mounted side by side) (with no icing or condensation)
Storage temperature range	-25 to 70°C (with no icing or condensation)
Operating humidity range	25% to 85%
Altitude	2,000 m max.
Recommended fuse	T2A, 250 VAC, time-lag, low-breaking capacity
Weight	Approx. 10.5 g (main unit only)
Installation environment	Pollution degree 2/overvoltage category III (IEC 61812-1)
Control output	Open collector, 30 VDC max., 100 mA max. Residual voltage: 1.5 VDC max. (Effective value: Approx. 1 V)
Solid state output	Leakage current: 0.1 mA max. IEC IP66, UL508 Type 4X*
Degree of protection	Individual mounting: Degree of protection on the front panel of the Timer conforms to UL 508 Type 4X when all of the following conditions are satisfied:

- * The Y92S-29 waterproof packing and Y92F-30 mounting adapter are used with the Timer. Use only these parts for replacement.
- * The Timer is mounted on the flat surface of an enclosure that is rated and marked "Type 4X for Indoor Use Only."

Conformance to EN/IEC Standards

When conforming to EMC standards, refer to the information provided in this Instruction Manual for cable selection and other conditions.

This is a class A product. In residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

No insulation is provided between the power supply and input terminals.

Basic insulation is provided between the power supply and output terminals.

Precautions for Compliance with UL Standards and CSA Standards

Notice to Users of the H5CX in the USA and Canada

Please use the following installation information instead of the general information in the instruction manuals in order to use the product under certified conditions of UL and CSA when the product is installed in the USA or Canada. These conditions are required by NFPA 70, National Electrical Code in the USA and the Canadian Electrical Code, Part I in Canada and may vary from information given in the product manuals or safety precautions.

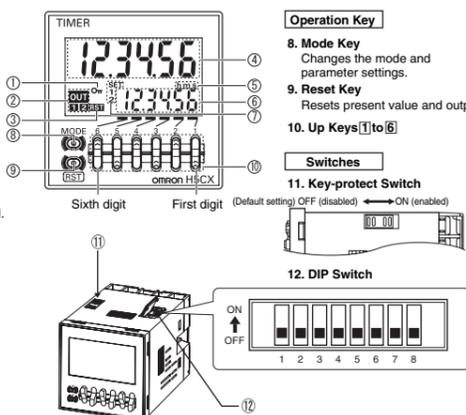
- Installation in a Panel
H5CX is normally installed on a flat surface in an operation panel. Use a Type 1 Enclosure for the operation panel.
- Use an isolated source for power input.
Use the isolated source for Inputs and Solid State Output.
- Environment
Surrounding Air Temperature: -10 to 40°C
- Power supply: The inputs are non-isolated.
The same power supply as the main power source should be used for that for input.
- Accessories (Order Separately)

Flush Mounting Adapter	---	Y92F-30
Waterproof Packing	---	Y92S-29

Nomenclature

Display Section

- Key Protect Indicator** (orange)
Lit when the key-protect switch is ON.
- Control Output Indicator** (orange)
Forecast value setting
Forecast output (OUT1) is lit
Control output (OUT2) is lit
Absolute value setting
Control output 1 (OUT1) is lit
Control output 2 (OUT2) is lit
- Reset Indicator** (orange)
Lit when the reset input or Reset Key is ON.
- Present Value Display** (red)
Character height: 10 mm
- Time Unit Indicators** (green)
If the time range is 0 min or 0.0 h, the display will flash to indicate that the timing operation is in progress.
- Set Value** (green)
Character height: 6 mm
- Set Value 1, 2 Indicator** (green)



Basic settings can be done only with the DIP switch.

Item	OFF	ON	Pin 1	Pin 2	Time range
1 Time range	Refer to the table on the right.		OFF	OFF	0.1 h to 99999.9 h
2 Output modes	F-1 mode	A mode	ON	OFF	0.01 s to 9999.99 s
3 Input signal width	20 ms	1 ms	OFF	ON	0 h 00 min 01 s to 99 h 59 min 59 s
4 NPN/PNP input mode	NPN	PNP	ON	ON	0.1 min to 99999.9 min
5 Reset Key protection	Disabled	Enabled			
6 Up Key protection	Disabled	Enabled			
7 Mode Key protection	Disabled	Enabled			

Note: 1. All the pins are factory-set to OFF.
2. DIP switch settings are effective when the power is turned ON again. (Set the DIP switch before installation and power-up.)

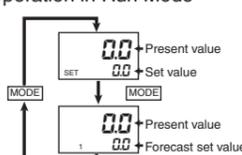
Key Protect Level

When the key-protect switch is ON, key operations are prohibited according to the settings for DIP switch pins 6 to 8, thus preventing setting errors. The key-protect switch can be turned ON and OFF while the power is ON. The key protection indicator is lit orange when the key-protect switch is ON. The function setting mode cannot be changed while the key-protect switch is ON.

Operating Procedures

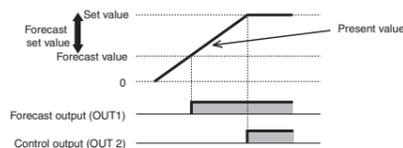
Forecast Value Setting

Operation in Run Mode



Each time the [MODE] Key is pressed, the set value display (5) will switch between the set value and the forecast set value.

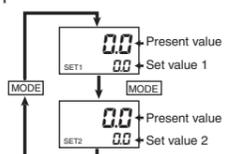
Basic Operation



- The control output (output 2) turns ON when the present value reaches the set value.
- Forecast output (OUT1) turns ON when the present value reaches the forecast value.
- The forecast value is the set value minus the forecast set value.
- If the forecast set value ≥ set value, OUT1 (forecast output) will turn ON as soon as timing starts.
- If the set value equals 0, the forecast output (output 1) and control output (output 2) will turn ON as soon as timing starts.

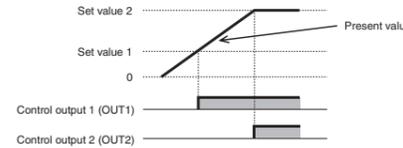
Absolute Value Setting

Operation in Run Mode



Each time the [MODE] Key is pressed, the set value display (5) will switch between set value 1 and set value 2.

Basic Operation

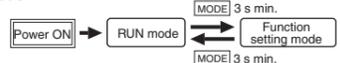


- OUT1 (control output 1) turns ON when the present value reaches set value 1.
- OUT2 (control output 2) turns ON when the present value reaches set value 2.
- If the set value equals 0, the control output will turn ON as soon as timing starts.

Operation in Function Setting Mode

Note: Refer to the datasheet (Cat. No. L111) for detailed parameter settings.

Change from RUN Mode to Function Setting Mode.



Set the parameters using the [F] Key.

The characters displayed in reverse video are the default settings.

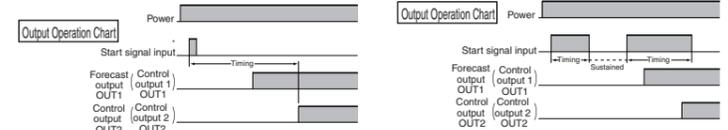
Display	Parameter name	Set value	Comments
SEt n	Absolute value setting/forecast value setting	6.54, 8b5 *1	
St -H	Set value upper limit	f to 999999	
Pl -H	Forecast setting upper limits	f to 999999	Displayed only when forecast value setting is made.
On 1R	Output 1 (OUT1)	h to 9999	× 1,000
On 2R	Output 2 (OUT2)	h to 9999	× 1,000
On 1C	Output 1 (OUT1) ON count alarm set value		The monitor value is only displayed. It cannot be set. × 1,000
On 2C	Output 2 (OUT2) ON count alarm set value		The monitor value is only displayed. It cannot be set. × 1,000

*1: After reaching the last set value, the [F] Key will return to the first set value.

Output Mode

- Mode A: Signal ON delay (Timer resets when power comes ON).
- Timing starts when the start signal goes ON.
- While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.
- A sustained control output is used.

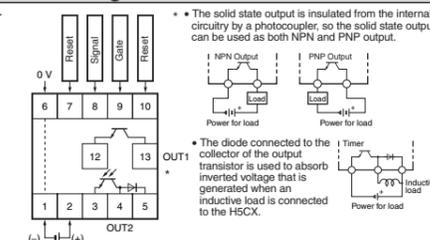
- Mode F-1: Cumulative (Timer does not reset when power comes ON).
- Start signal enables timing (timing is stopped when the start signal is OFF or when the power is OFF).
- A sustained control output is used.



*Start signal input is disabled during timing. The names in parentheses are used for the absolute value setting.

Terminal Arrangement

- Confirm that the power supply to the Timer meets specifications before use.



- The power supply and input circuit are not isolated. Terminals 1 and 6 are connected internally.
- Terminals 7 and 10 have the same reset function. The same function will be performed whichever terminal is connected. Terminals 7 and 10 are not connected internally, so do not use them for cross wiring.
- The diode connected to the collector of the output transistor is used to absorb inverted voltage that is generated when an inductive load is connected to the H5CX.

Self-diagnostic Function

The following displays will appear if an error occurs.

Main display	Subdisplay	Error	Output status	Correction method	Set value after reset
E 1	Not lit	CPU error	OFF	Either press the Reset Key or reset the power supply.	No change
E 2	Not lit	Memory error (RAM)	OFF	Reset the power supply.	No change
E 2	5Ua	Memory error (EEPROM)*1	OFF	Reset Key	Factory settings
E 3 *2	No change	Output ON count alarm set value exceeded	No change	Reset Key	No change

*1. This includes times when the life of the EEPROM has expired.
*2. The normal display and E3 will appear alternately. When the Reset Key is pressed, E3 will no longer be displayed even if the alarm set value is exceeded. (Monitoring is possible, however, because the counter will continue without clearing the output ON count.)

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形 H5CX-B□-N
デジタルタイマ

JPN 取扱説明書

オムロン製品をお買い上げいただきありがとうございます。この製品を安全に正しく使用していただくために、お使いになる前にこの取扱説明書をお読みになり、十分にご理解ください。

オムロン株式会社

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詳細は、最新版のカタログ (SGTA-028) を参照してください。

ご使用に際してのご承諾事項

下記用途に使用される場合、当社営業担当者までご相談のうえ仕様書などにより確認いただくとともに、定格・性能に引当余裕を持たない方や、万一故障があっても危険を最小にする安全回路などの安全対策を講じてください。

安全上のご注意

警告表示の意味



正しい取扱いをしなければ、この危険のために、時に軽傷・中程度の傷害をおったり、あるいは物的損害を受ける恐れがあります。

注意

軽度の感電、発火、機器の故障が稀に起こる恐れがあります。製品の中に金属、導線または、取り付け加工中の切粉などが入らないようにしてください。

爆発により稀に軽度の傷害の恐れがあります。引火性、爆発性ガスのある所では使用しないでください。

発火が稀に起こる恐れがあります。端子ネジは下記の規定トルクで締めてください。H5CX本体端子：6.55 ~ 7.97 Lb-In (0.74 ~ 0.90 N・m)

感電により軽度の傷害が稀に起こる恐れがあります。通電中は端子に触らないでください。また、配線後、必ず端子カバーを取り付けてください。

軽度の感電、発火、機器の故障が稀に起こる恐れがあります。分解、改造、修理したり、内部に触らないでください。

安全上の要点

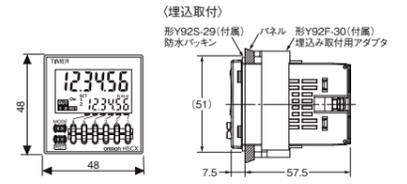
- 1) パネルへの取り付けの際は2ヶ所のねじを交互にバランスを取りながらしっかりと締め付けてください。
2) 保存は、記載された定格範囲内としてください。また、-10℃以下で保存後、使用する場合は、常温に時間以上放置してから通電してください。
3) 使用取り付けをするとき内部部品の寿命が短くなる恐れがあります。
4) 使用周囲温度や使用周囲湿度については、記載された定格範囲内でご使用ください。
5) 下記環境下での使用は避けてください。
・ 温度変化の激しいところ
・ 湿度が高く結露が生じる恐れのあるところ
・ 振動・衝撃の影響が大きいところ
・ 水がかかるところ
・ 被油のあるところ
6) 粉塵の多い場所、腐食ガスの発生する場所、直射日光の当たる場所での使用は避けてください。
7) 多量の静電気が発生する環境 (成形材料、粉、流体材料をパイプ搬送する場合など) でご使用の場合は静電気発生源を製品本体より離してください。
8) 定格以外の電圧を印加しますと、内部素子が破壊する恐れがあります。
9) 端子の極性は、誤配線のないようにしてください。
10) ノイズ発生源、ノイズがった強電線から入力信号線の機器、入力信号線の配線、および製品本体を離してください。
11) 圧着端子を使用する場合は1つの端子に2個までとしてください。
12) 配線は1端子あたり2本までは締め付けられますが、その場合、2本は同じ極線で使ってください。
13) 配線に使用する適用電線は記載された適切なものを使用してください。
適用電線 AWG18 ~ 22 単線またはより線 銅
14) 作業者がすぐ電源をOFFできるように、スイッチまたはサーキットブレーカを設置し、適切に表示してください。
15) 無電圧入力 (NPN入力) で使用される場合、入力端子より約14Vが出力されます。ダイオードの入ったセンサをご使用ください。
16) 電源電圧は0.1秒以内に定格電圧に達するようにスイッチ、リレーなどの接点を介して一気に印加してください。徐々に電圧を印加しますと、電源リセットしなかつたり出力の誤動作が発生することがあります。
17) 電源遮断時はスイッチ、リレーなどの接点を介して一気に行ってください。徐々に電圧を低下させると、出力の誤動作やメモリ異常が発生することがあります。
18) "常時跳込方式"を採用しており、計時中に次のような設定値変更をしますと出力がON/OFFになります。
"計時値≧設定値"
設定値=0の動作は、シグナル入力された時点で出力がON/OFFになります。リセット操作により出力はOFF/ONになります。
19) 本体の外装は有機溶剤 (シンナー・ベンジンなど) 強アルカリ性、強酸物質に侵されますので使用しないでください。
20) 表示 (バックライトLED、LCD) が正常に動作していることをご確認ください。ご使用環境によっては、LED、LCD、樹脂部品の劣化や表示不良になることがありますので、定期的な点検および交換をお願いします。
21) 防水パッキンをご使用環境によっては、劣化・取崩しおよび硬化するため定期的な点検および交換をお願いします。

使用上の注意

- 1) 形H5CXシリーズのDC12~24V電源タイプは電源端子と信号入力端子間が絶縁されていない電源トランス方式とされています。非絶縁タイプのDC電源を使用する場合は、配線には十分ご注意ください。
2) 電源投入時に短時間で急激な電流が流れる (約10A)、電源の容量によっては起動しないことがありますので、充分な容量の電源を使用してください。
3) 電源電圧の変動範囲は、許容範囲内としてください。
4) タイマの周辺機器 (センサ等) の立ち上がり時間を考慮して、電源ONから200 ~ 250ms経過後にタイマ動作を開始します。このため電源スタートをさせる場合、249ms以下の設定では出力がONするまでの時間が200 ~ 250msの範囲内で一定の値となりますのでご注意ください。また、計時値表示は250msよりスタートします。(250ms以上の設定では通常動作します。) 249ms以下の設定が必要な場合はシグナルスタートでお使いください。
5) 電源OFFから5 ~ 50ms経過後は入力を受け付けませんのでご注意ください。
6) 電源ON/OFF時の突入電流によって電源回路上の接点の劣化が考えられますので、定格10A以上の機器での開閉をおすすめします。
7) 各種設定値は、計測対象に合わせて正しく設定してください。設定内容と計測対象の内容が異なる場合には、意図しない動作により装置の破損や事故の原因になります。
8) 高温中に長時間、出力電流を流した状態で放置されますと、内部部品 (電解コンデンサ等) の劣化を早める恐れがありますので避けてください。
9) EEP-ROMにより停電記憶を行っています。EEP-ROMの書き換え寿命は10万回です。EEP-ROMは電源OFF時および機能設定モードから運転モードに移行する時に書き換えます。
10) 本製品を廃棄する場合は、各地方自治体の産業廃棄物処理方法に従って処理してください。

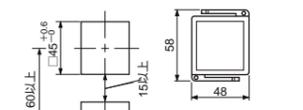
取付およびパネル加工寸法図

取付寸法図 (単位:mm)



パネル加工寸法図 (単位:mm)

標準パネルカットは下図のとおりです。(DIN43700準拠)
アダプタのフック側方への取付間隔は、作業性を考慮すると15mm以上 (パネルカット間隔60mm以上) あげてくださいを推奨します。



注1. 取付パネルの板厚は1~5mmが適当です。
注2. アダプタの取付により密着取付が可能です。(ただしフックのない方向のみ)
注3. 密着取り付け時は、耐水性が失われます。

定格 (仕様)

Table with 2 columns: Specification (電源電圧, 許容電圧変動範囲, 消費電力, etc.) and Value (DC12~24V, 90~110%, 約2.3W, etc.).

EN/IEC 規格対応について

EMCに適合するための、ケーブル選定・その他の条件については、本取扱説明書の記載内容を参照してください。この商品は「class A」(工業環境商品)です。住宅環境でご利用されると、電波妨害の原因となる可能性があります。その場合には電波妨害に対する適切な対策が必要となります。

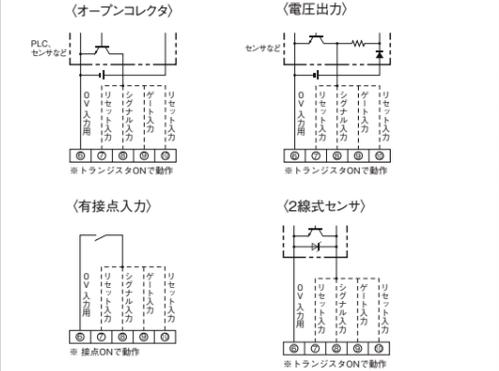
入出力機能

Table with 2 columns: Input Function (リセット, ゲート) and Output Function (予報値設定, 絶対値設定).

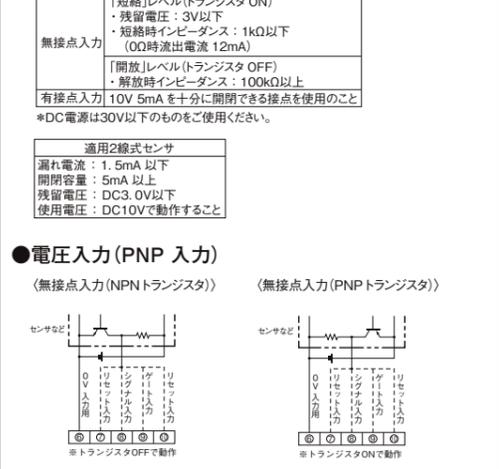
入力の接続

各入力は無電圧入力 (短絡・開放入力)、電圧入力の切替です。

無電圧入力 (NPN 入力)



電圧入力 (PNP 入力)



各部の名称とはたらき

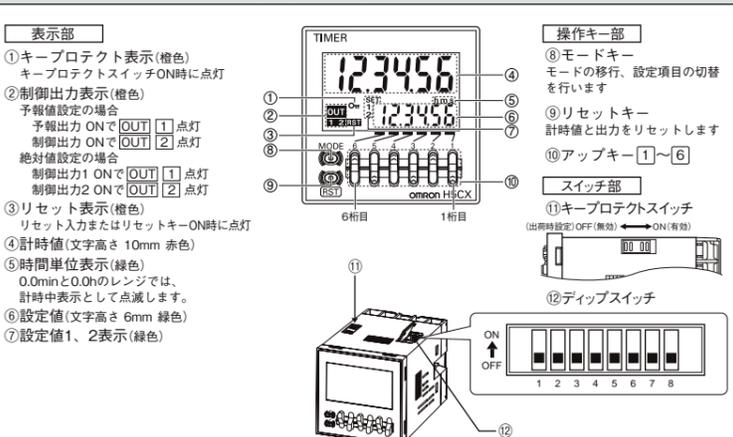


Table with 3 columns: Item (時間レンジ, 出力モード, etc.), OFF setting, and ON setting.

基本機能の設定はディップスイッチだけで行います。
注. 出荷時はすべてOFFです。
* ディップスイッチの設定は電源投入時に変更されます。(ディップスイッチは取付・通電前に設定ください。)

機能設定モードでの操作

※ 各パラメータの設定値の詳細は、カタログを参照してください。
● 運転モードを機能設定モードに切り替えます。

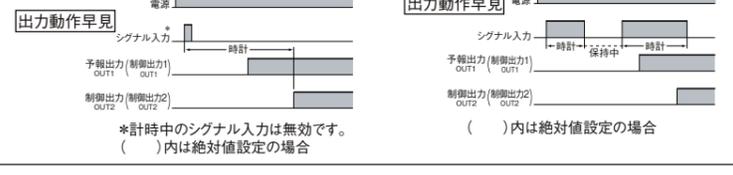


● 各パラメータは [MODE] キーで設定値を設定してください。反転文字は工場出荷時の設定です。

Table with 4 columns: Screen (画面), Parameter Name (パラメータ名), Setting Value (設定値), and Remarks (特記事項).

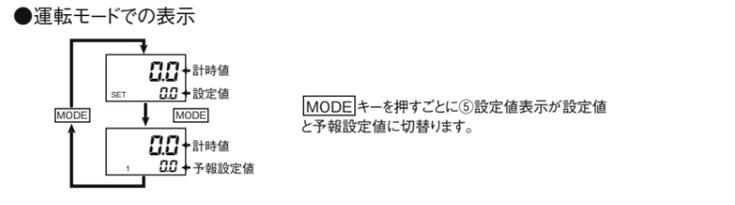
出力モード

- Aモード (シグナルオンデラワー: 電源リセット動作)
・ シグナルは計時スタート機能
・ シグナルオン中はパワーオンスタート、リセットオフスタートで動作
・ 制御出力はホールド
● F-1モード (積算: 電源保持動作)
・ シグナル許可機能 (シグナルオフ中、電源中は計時停止)
・ 制御出力はホールド

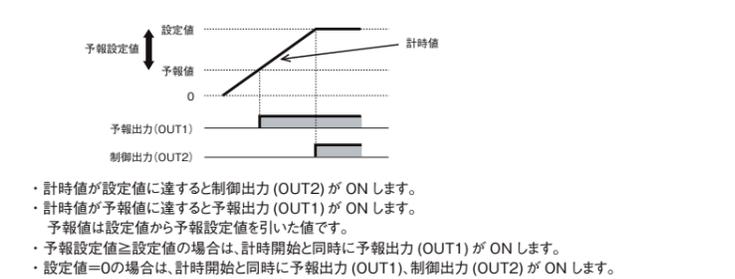


操作方法

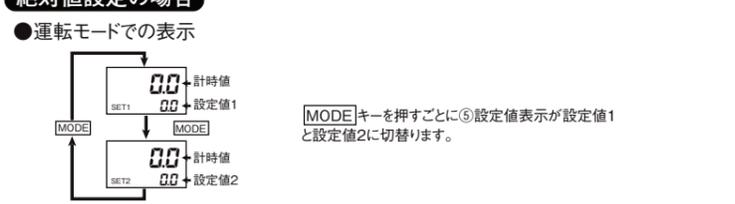
予報値設定の場合



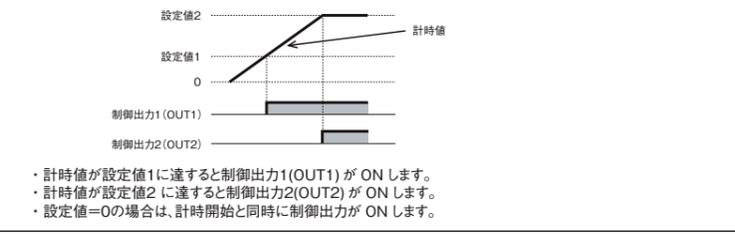
基本動作の説明



絶対値設定の場合

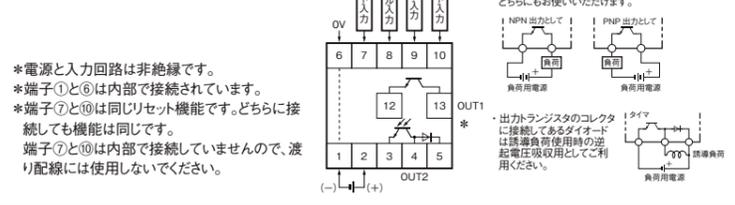


基本動作の説明



端子配置

・ タイマの電源仕様を確認の上、ご使用ください。



自己診断機能

異常が発生した時は下記の表示になります。

Table with 4 columns: Display (表示), Content (内容), Output Status (出力状態), and Recovery Method (復帰後の設定値).

*1. EEP-ROMの書き換え寿命に達した場合も含まれます。
*2. E3と通常表示を交互に表示します。リセットキーを押すと、警報設定値以上でもE3は表示しませんが、出力ON回数はクリアされずカウント継続するため、モニタは可。

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東京都品川区大崎1-11-1 ゲートシティ大崎 ウェストタワー14F (〒141-0032)

● 技術的なお問い合わせ
0120-919-066 (フリーコール)
携帯電話: PHSなどは055-982-5015です。
直通の制御機器の技術窓口は055-982-5000です。
● 営業時間: 9:00 ~ 12:00/13:00 ~ 19:00 (土・日・祝祭日は17:00まで)
● 営業日: 年末年始を除く
● FAXによるお問い合わせ
テクニカルセンター お客様相談室 FAX 055-982-5051
● インターネットによるお問い合わせ/FAQ (よくあるご質問) の検索はオムロン Industrial Webをご利用ください。 http://www.fa.omron.co.jp/