デジタルタイマ

H5CX-L8E-N



商品概要

Digital Timer, Economy Type, 1 tier, Contact output (Time-limit contact: SPDT, Instantaneous contact: SPDT), 100 to 240 VAC, 8-pin round socket

販売状況

2026/11/20 00:00 情報更新

販売状況	受注終了
受注終了日	2025年9月

推奨代替品の最新情報につきましては、当社Webサイト(www.fa.omron.co.jp)の「生産終了品/推奨代替品」をご覧ください。
在庫状況/標準価格の最新情報につきましては、当社Webサイト(www.fa.omron.co.jp)の「在庫状況/標準価格 照会」をご覧ください。

詳細情報

Ratings/Performance

情報更新：2024/12/23

Rated supply voltage	100 to 240 VAC (50/60 Hz)
Operating voltage range	85 to 110% of rated supply voltage
Power consumption	Approx. 6.2 VA
Time ranges（Number of ranges）	10
Time ranges	0.001 to 9.999 s 0.01 to 99.99 s 0.1 to 999.9 s 1 to 9999 s 0.1 to 999.9 min 1 to 9999 min 0.1 to 999.9 h 1 to 9999 h 1 s to 99 min 59 s 1 min to 99 h 59 min
Output modes	A-2: Power ON delay (II) b: Repeat cycle (I) E: Interval Z: ON/OFF-duty adjustable flicker toff: Flicker OFF start (I) ton: Flicker ON start (I)
Control output （Contact output）	Time-limit SPDT + instantaneous SPDT Resistive load: 5 A at 250 VAC/30 VDC (cosφ = 1) Minimum applicable load: 10 mA at 5 VDC (failure level: P Reference value)
Reset system	Power reset (depending on output mode)/Automatic reset (depending on output mode)/External reset/Manual reset
Power reset	Minimum power-opening time: 0.5 s
Timer mode	Elapsed time (UP) and remaining time (DOWN) (selectable)
Display method	7-segment negative transmissive LCD 4 digit
Character height	Present value: 12 mm (Red) Set value: 6 mm (green)
Key protect method	Key protect Switch
Memory backup method	EEP-ROM (number of writes: 100,000 min., that can store data for 10 years min.)
Ambient temperature (Operating)	-10 to 55 °C (with no freezing or condensation) When mount timer side by side: -10 to 50 °C (with no freezing or condensation)
Ambient temperature (Storage)	-25 to 70 °C (with no freezing or condensation)
Ambient humidity (Operating)	25 to 85 %
Accuracy of operating time	Power-ON start: ±0.01% ±0.05 s max. (The values are based on the set value.) Signal start: ±0.005% ±0.03 s max. (The values are based on the set value.)

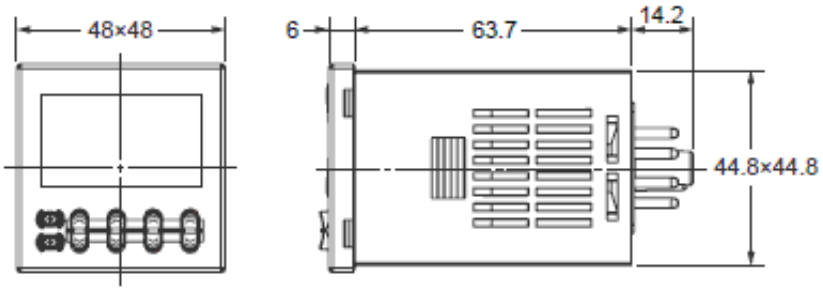
Setting error	Power-ON start: ±0.01% ±0.05 s max. (The values are based on the set value.) Signal start: ±0.005% ±0.03 s max. (The values are based on the set value.)
Influence of voltage	Power-ON start: ±0.01% ±0.05 s max. (The values are based on the set value.) Signal start: ±0.005% ±0.03 s max. (The values are based on the set value.)
Influence of temperature	Power-ON start: ±0.01% ±0.05 s max. (The values are based on the set value.) Signal start: ±0.005% ±0.03 s max. (The values are based on the set value.)
Insulation resistance	Between current carrying terminals and exposed non-current carrying metal parts: 100 MΩ min. (at 500 VDC) Between non-continuous contacts: 100 MΩ min. (at 500 VDC)
Dielectric strength	Between current carrying metal parts and non-current carrying metal parts: 2000 VAC 50/60 Hz 1 min Between control output and power supply: 2000 VAC 50/60 Hz 1 min Between non-continuous contacts: 1000 VAC 50/60 Hz 1 min
Impulse withstand voltage	Between power terminals: 5 kV Between current carrying terminals and exposed non-current carrying metal parts: 5 kV
Noise immunity	Between power terminals: ±1.5 kV square-wave noise by noise simulator, pulse width: 100 ns/1 µs, 1-ns rise
Static immunity	Mulfunction: 8 kV, Destruction: 15 kV
Vibration resistance	Destruction: 10 to 55 Hz, 0.75 mm single amplitude each in 3 directions for 2 h Malfunction: 10 to 55 Hz 0.35 mm single amplitude each in 3 directions for 10 min
Shock resistance	Destruction: 300 m/s^2, 3 times each in 3 axes each directions Malfunction: 100 m/s^2, 3 times each in 6 directions
Life expectancy	Electrical: 100,000 operations min. (5 A at 250 VAC resistive load at 1800 operations/h, 23 °C) Mechanical: 10 million operations min. (under no load at 1,800 operations/h, 23 °C)
Degree of protection	Only panel surface: IEC IP66, UL508 Type 4X (indoors) (when using the Y92S-29 Waterproof Packing and Y92F-30 Flush Mounting Adapter)
Mounting method	Flush mounting / Surface mounting
External connection method	8-pin round socket
Case color	Black (Munsell N1.5)
Applicable socket	P2CF-08, P2CF-08-E, P3G-08
Accessory (sold separately)	Soft Cover: Y92A-48F1 Hard Cover: Y92A-48 Flush mounting adapter: Y92F-30/Y92F-45/Y92F-38 Waterproof packing: Y92S-29 Replacement Front Panel: Y92P-CXT4S/Y92P-CXT4G/Y92P-CXT4B
Weight	Main Unit: Approx. 115 g

Dimensions

情報更新：2024/12/23

H5CX-L8□-N (Flush Mounting/Surface Mounting Models)

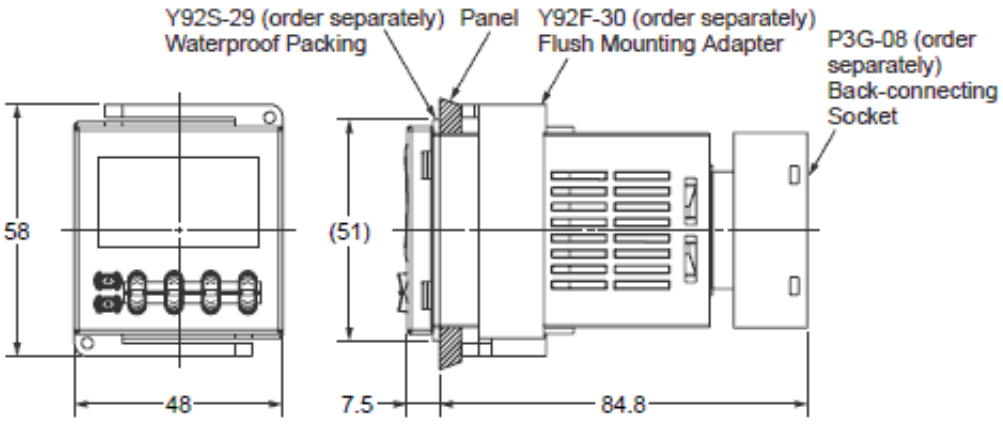




Dimensions with Flush Mounting Adapter

H5CX-L8□-N (Adapter and Waterproof Packing Ordered Separately)

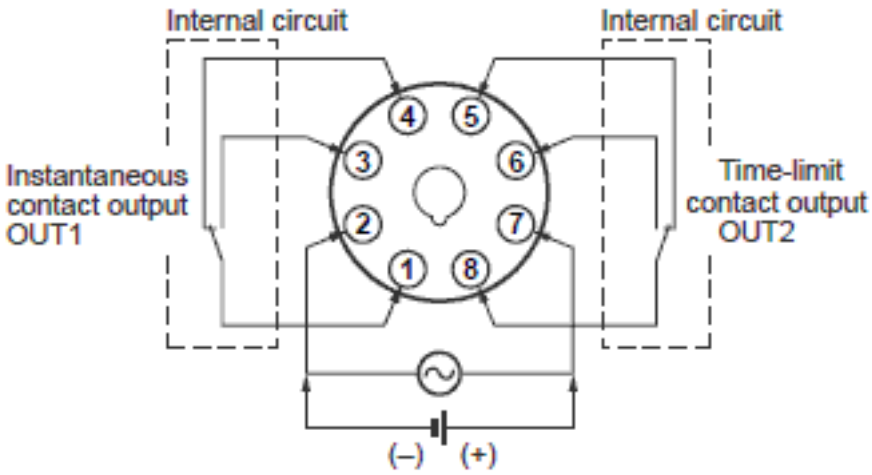




Terminal arrangement

情報更新：2024/12/23

H5CX-L8E-N/-L8ED-N



Operating chart

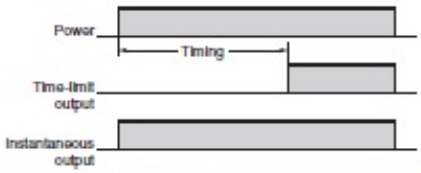
情報更新：2024/12/23

Models with Instantaneous Contact Outputs

Either one-shot output or sustained output can be selected.

Mode A-2: Power ON delay (Timer resets when power comes ON.)

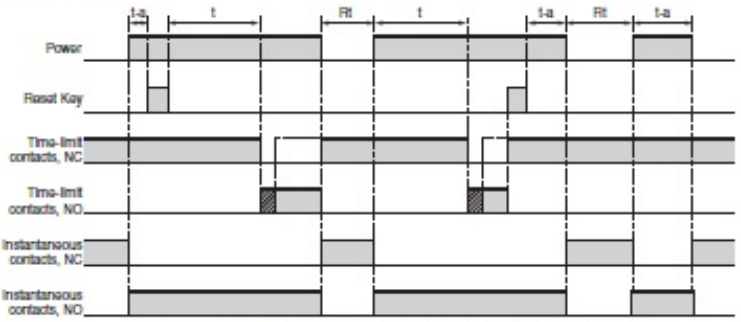
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Output is instantaneous when setting is 0.

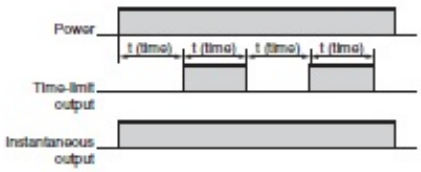
Detailed operation



t = Set time, Rt = Reset time (0.5 s min.), t – a < t (Indicates the time is less than the set time.)

Mode b: Repeat cycle 1 (Timer resets when power comes ON.)

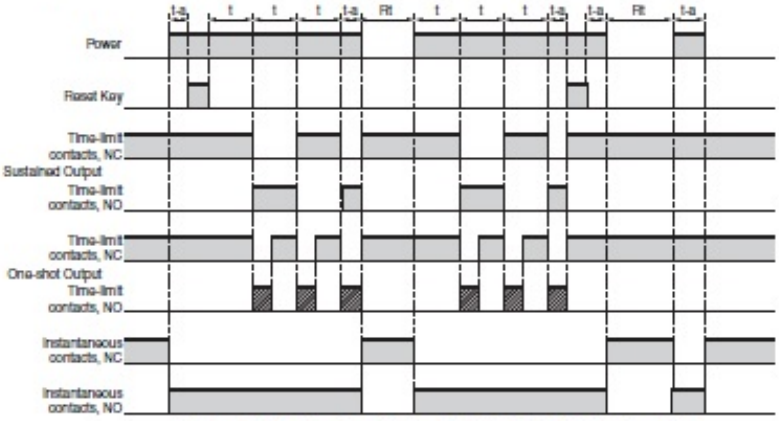
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Normal output operation will not be possible if the set time is too short.
Set the value to at least 100 ms.

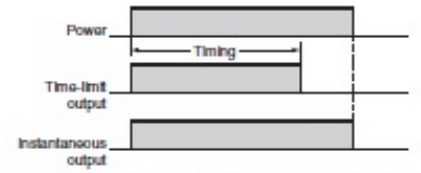
Detailed operation



t = Set time, Rt = Reset time (0.5 s min.), t – a < t (Indicates the time is less than the set time.)

Mode E: Interval (Timer resets when power comes ON.)

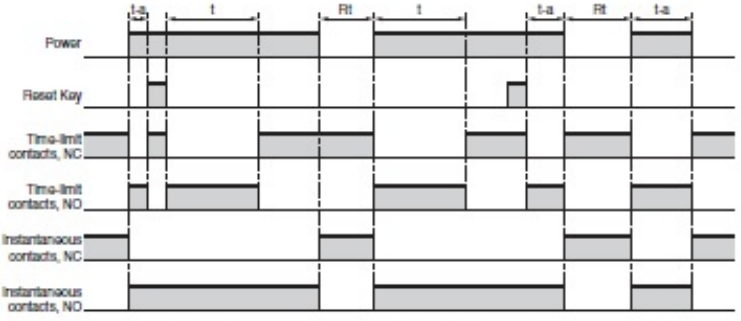
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Output is not instantaneous when setting is 0.

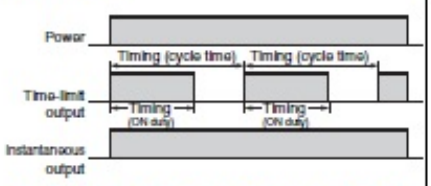
Detailed operation



t = Set time, Rt = Reset time (0.5 s min.), t – a < t (Indicates the time is less than the set time.)

Mode Z: ON/OFF-duty adjustable flicker (Timer resets when power comes ON.)

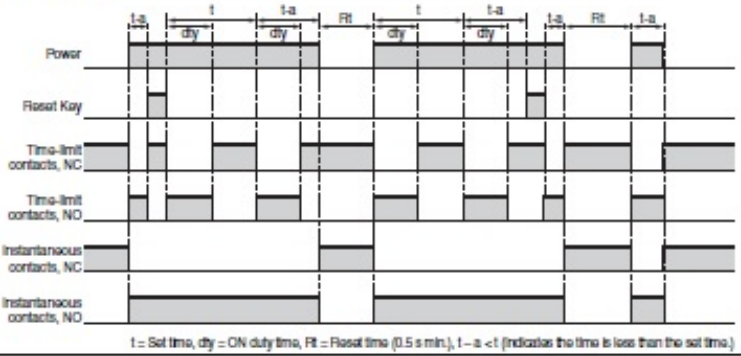
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Normal output operation will not be possible if the set time is too short.
Set the value to at least 100 ms.

Detailed operation



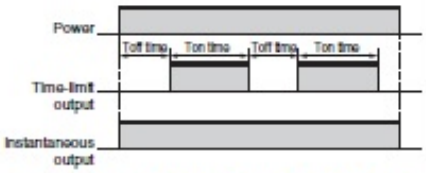
t = Set time, dty = ON duty time, Rt = Reset time (0.5 s min.), t – a < t (Indicates the time is less than the set time.)

Note: H5CX-L8E□-N Precautions
Set the Timer's set value before using the Timer in a self-holding circuit.

Models with Instantaneous Contact Outputs

Mode toff: Flicker OFF start 1 (Timer resets when power comes ON.)

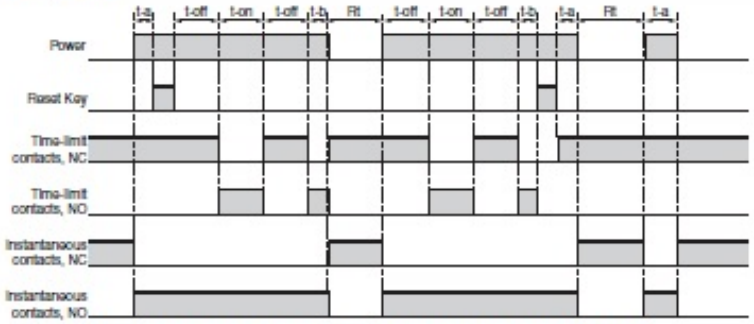
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Normal output operation will not be possible if the set time is too short. Set the ON time and OFF time to at least 100 ms.

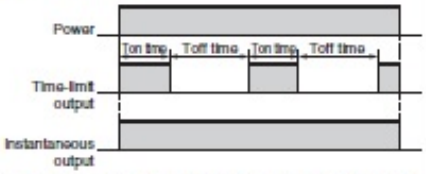
Detailed operation



t-on = ON time, t-off = OFF time, Rt = Reset time (0.1 s min.), t – a < t-off and t – b < t-on
(Indicates the time is less than the set time.)

Mode ton: Flicker ON start 1 (Timer resets when power comes ON.)

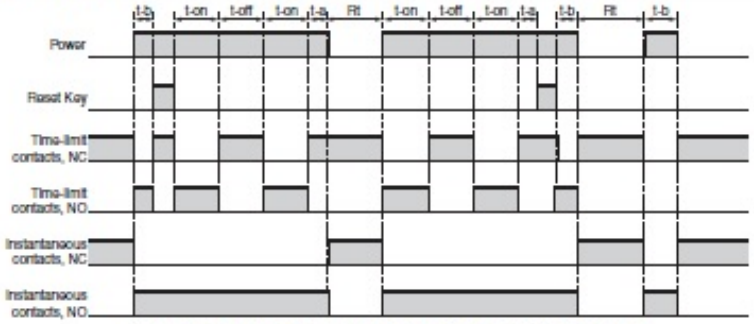
Basic operation



The Timer starts when the power comes ON or when the reset input goes OFF.

Note: Normal output operation will not be possible if the set time is too short. Set the ON time and OFF time to at least 100 ms.

Detailed operation



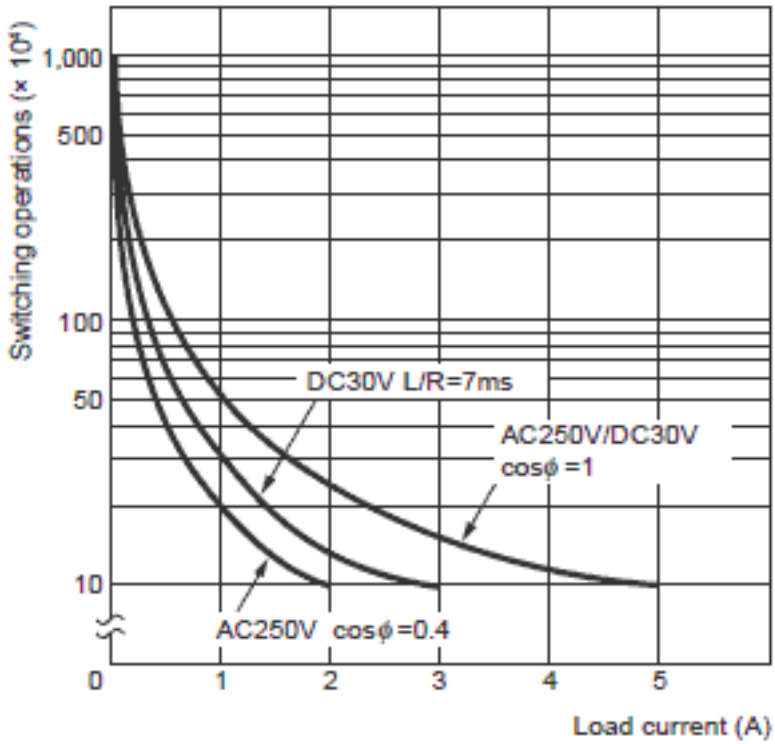
t-on = ON time, t-off = OFF time, Rt = Reset time (0.1 s min.), t – a < t-off and t – b < t-on
(Indicates the time is less than the set time.)

Note: H5CX-L8E□-N Precautions
Set the Timer's set value before using the Timer in a self-holding circuit.

Electrical life

情報更新：2024/12/23

Life-test Curve (Reference Values)



A maximum current of 0.15 A can be switched at 125 VDC (cosϕ =1) and a maximum current of 0.1 A can be switched if L/R is 7 ms. In both cases, a life of 100,000 operations can be expected.

RoHS/REACH対応状況

情報更新：2026/11/18

H5CX-L8E-NのRoHS対応状況については、営業部門もしくは販売店にお問い合わせください。

注意事項・凡例

”対応済み”で記載される商品であっても、流通在庫等で未対応品が混在する可能性があります。
非含有品が必要な際は、弊社営業部門もしくは販売店へお問い合わせください。

※1 対応状況

- Ro対応済み　：EU RoHS指令（10物質）の非含有に対応した製品が提供可能な商品です。
- 対応予定　：EU RoHS指令（10物質）の非含有に対応した製品に切り替える予定のある商品です。
- 対応予定なし　：EU RoHS指令（10物質）の非含有に非対応の商品で、対応品を出す予定はありません。
- 調査・確認中　：EU RoHS指令（10物質）の非含有の対応状況を調査中または確認中の商品です。
- 非該当品　：ライセンス料など無形物で、有害物質有無と関係のない商品です。

仕入先様の事情により、非含有部品としていたものが、含有品と判明した場合などやむを得ず変更することがあります。

＊EU RoHS指令（10物質）：
鉛(Pb) 1000ppm以下、水銀(Hg) 1000ppm以下、カドミウム(Cd) 100ppm以下、六価クロム(Cr(VI)) 1000ppm以下、
ポリ臭化ビフェニル類(PBB) 1000ppm以下、ポリ臭化ジフェニルエーテル類(PBDE) 1000ppm以下、
フタル酸ビス(2-エチルヘキシル) (DEHP)(別名：DOP) 1000ppm以下、フタル酸ブチルベンジル (BBP) 1000ppm以下、
フタル酸ジブチル (DBP) 1000ppm以下、フタル酸ジイソブチル (DIBP) 1000ppm以下
但し、RoHS指令で産業用監視および制御機器に対する適用除外項目は除く。
フタル酸エステル類の４物質については閾値を超える意図的な使用がないことを確認しています。

※2 対応予定月

部品在庫の切り替え状況などにより、予定月が前後することがあります。

※3 非含有証明書ダウンロード

下記の非含有証明書をダウンロードすることができます。
・EU RoHS指令（10物質）の非含有証明書
・49物質の非含有証明書（当社基準）

※本証明書は発行日時点で非含有を証明するもので、過去に遡って非含有を証明するものではありません。
また、RoHS指令のフタル酸エステル類４物質の対応では、対応完了までの期間は出荷製品に未対応品が混在することから備考欄に対応日を記載しておりました。
既に当社にて対応品への在庫切替を完了していることから、特段のことがない限り、2022年1月12日より割愛しております。

規格認証/適合状況

UL認証	CSA認証	CEマーキング適合	CCC認証	電波法
Yes	Yes	Yes	Yes	N/A

LR型式承認（イギリス船舶規格）	DNV型式承認（ノルウェー船舶規格）	BV型式承認（フランス船舶規格）	KR型式承認（韓国船舶規格）	NK型式承認（日本船舶規格）	ABS型式承認（アメリカ船舶規格）
No	No	No	No	No	No

この製品の規格認証/適合状況ページへ >
その他の認証はこちらのページからご検索ください >

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