デジタルタコメータ

H7CC-R11

商品概要

Digital Tachometer, 1 stage (1 input and output), 6 digits, Contact output, 100 to 240 VAC, 11-pin socket

販売状況

2026/05/13 00:00 情報更新

販売状況	販売中
機種区分	標準在庫機種
標準価格(税別)	¥ 21,000

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/Specifications

情報更新：2025/06/19

Function		Tachometer
Rated supply voltage		100 to 240 VAC 50/60 Hz
Operating voltage range		85 to 110% of rated supply voltage
Power consumption		at 100 to 240 VAC: Approx. 6.8 VA
External power supply		12 VDC (±10%), 100 mA
Tachometer	Input mode	1 input
	Pulse measurement method	Tachometer mode (cycle measurement)AMD-compatible mode (continuous measurement)
	Max. counting speed	30 Hz/10 kHz (switching)
	Minimum input signal width	10 ms/1 ms (AMD-compatible mode (continuous measurement))
	Sampling period	200 ms min.
	Measuring ranges	Tachometer mode (cycle measurement) (30 Hz): 0.001 to 30.00 Hz Tachometer mode (cycle measurement) (10 kHz): 0.001 to 10 kHz AMD-compatible mode (continuous measurement) (10 ms): 0.026 to 999999 s AMD-compatible mode (continuous measurement) (1 ms): 0.003 to 999999 s
	Output modes	Upper and lower limit/ area/ upper limit/ lower limit
Input	Input signal	Count
	Input method	No-voltage (NPN)/Voltage input (PNP) selectable
	No-voltage input (No-contact input)	Short-circuit (ON) impedance: 1 kΩ max. (Leakage current (0 Ω): Approx. 12 mA) Residual voltage: 3 V max. Open circuit impedance: 100 kΩ min.
	No-voltage input (Contact input)	Use a contact which can adequately switch 5 mA at 10 V.
	Voltage input	Hight level: 4.5 to 30 VDC Low level: 0 to 2 VDC (Input resistance Approx. 4.7 kΩ)
Control output	Contact output	SPDT 3 A at 250 VAC/30 VDC, resistive load (cos phi=1) Minimum applicable load: 10 mA at 5 VDC (failure level:P reference value)
Display	Display method	7-segment negative transmissive LCD

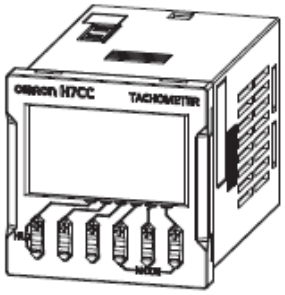
	Digits	6 digits
	Character height	Measurement value: 10 mm (White) Comparison value: 6 mm (Green)
Prescaling function		0.001 to 99.999 (in Tachometer Mode)
Decimal point adjustment		Rightmost 3 digits
Key protection		Key protect Switch
Memory backup methods		Method: Non-volatile memory, Number of rewite: 100,000 operations min., Store data: 10 years min.
Ambient temperature (Operating)		-10 to 55 °C (with no freezing or condensation) Close mounting: -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 %
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 withstand voltage		Between current carrying metal parts and non-current carrying metal parts: 2,000 VAC, 50/60 Hz for 1 min Between operating power circuit and input circuit: 2,000 VAC, 50/60 Hz for 1 min Between control output, and power supply/input circuit: 2,000 VAC, 50/60 Hz for 1 min Between non-continuous contacts: 1,000 VAC, 50/60 Hz for 1 min
Impulse withstand voltage		Between power terminals: 6 kV Between current carrying terminals and exposed non-current carrying metal parts: 6 kV
Noise immunity		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 3 axes each directions
Life expectancy		Mechanical life 10 million operations min. Electrical life 100,000 operations min. (3 A at 250 VAC resistive load)
Degree of protection		Case front: IEC IP66 when Y92S-P6 Waterproof Packing is used
External connection method		11-pin round socket
Case color		Black (N1.5)
Accessories		Three of Instruction Manual

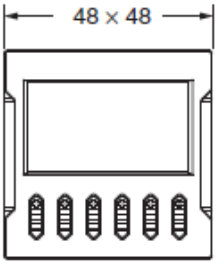
Weight	Approx. 100 g

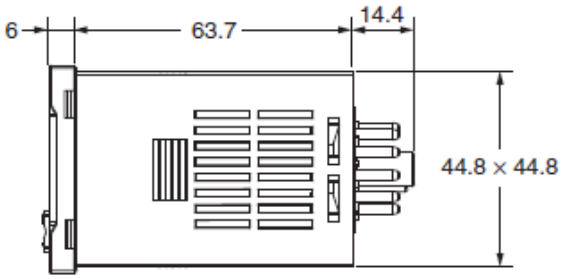
Dimensions

情報更新：2025/06/19

H7CC-R□



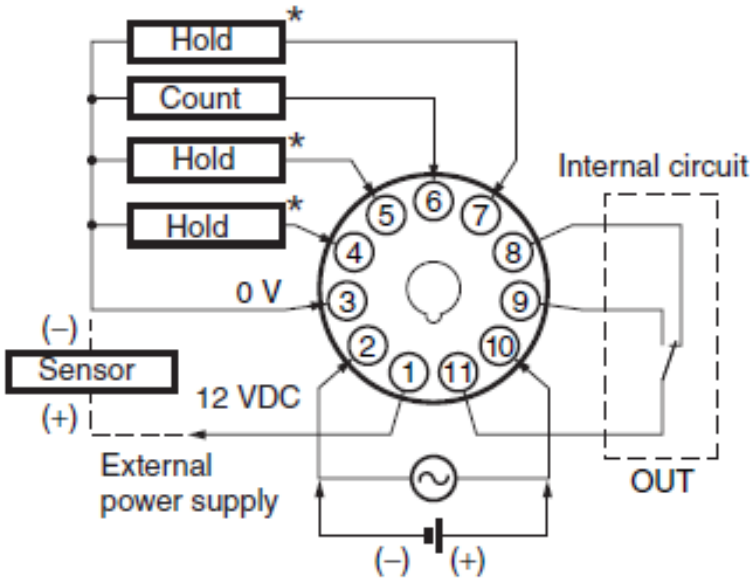




Terminal arrangement

情報更新：2025/06/19

H7CC-R11
H7CC-R11D



✻ The hold function is the same whichever terminal is connected. Terminals are not connected internally, and so do not use them for cross-over wiring.

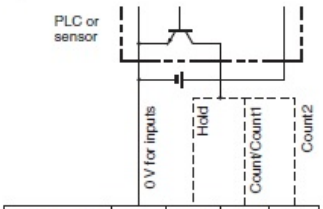
Input connection diagram

情報更新：2025/06/19

No-voltage input:

No-voltage Inputs (NPN Inputs)

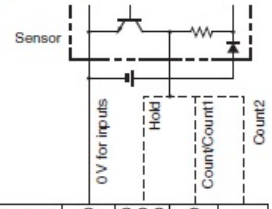
Open Collector



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the transistor turns ON.

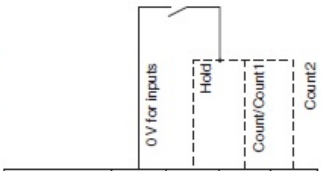
Voltage Output



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the transistor turns ON.

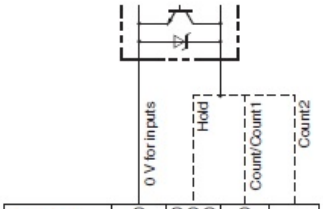
Contact Input



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the contact turns ON.

DC Two-wire Sensor



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the transistor turns ON.

No-voltage Input Signal Levels

No-contact input	Short-circuit level (Transistor ON) • Residual voltage: 3 V max. • Impedance when ON: 1 kΩ max. (The leakage current is approx. 12 mA when the impedance is 0 Ω.)
	Open level (Transistor OFF) • Impedance when OFF: 100 kΩ min.
Contact input	Use contacts which can adequately switch 5 mA at 10 V.

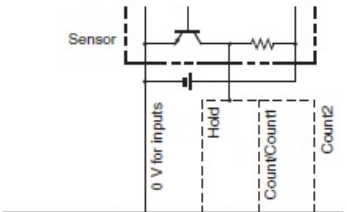
Note: The DC voltage must be 30 VDC max.

Applicable Two-wire Sensor
• Leakage current: 1.5 mA max. • Switching capacity: 5 mA min. • Residual voltage: 3 VDC max. • Operating voltage: 10 VDC

Voltage input:

Voltage Inputs (PNP Inputs)

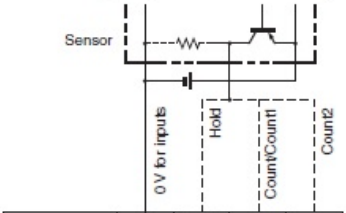
No-contact Input (NPN Transistor)



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the transistor turns ON.

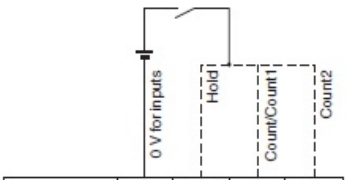
No-contact Input (PNP Transistor)



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the transistor turns ON.

Contact Input



H7CC-R11□	③	④⑤⑦	⑥	---
H7CC-R11W□	③	---	⑥	⑤

Note: Operates when the contact turns ON.

Voltage Input Signal Levels

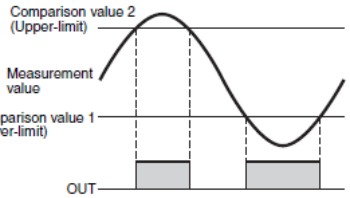
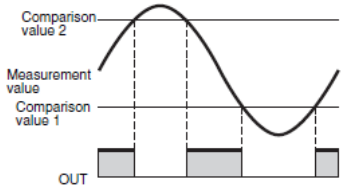
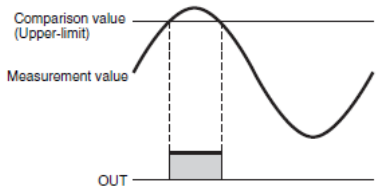
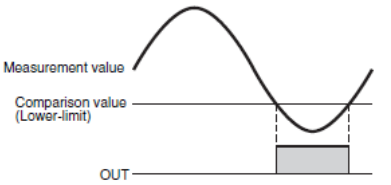
High level (Input ON): 4.5 to 30 VDC
Low level (Input OFF): 0 to 2 VDC

Note: 1. The DC voltage must be 30 VDC max.
2. Input resistance: Approx. 4.7 kΩ

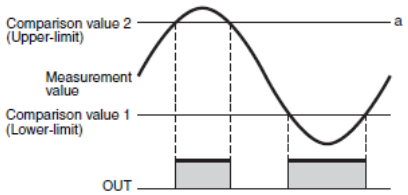
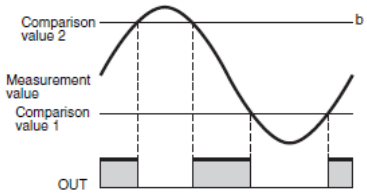
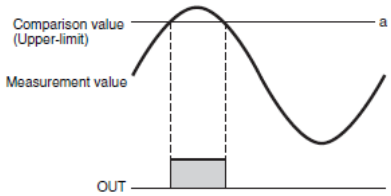
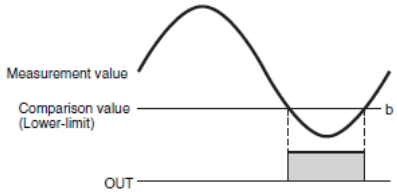
Input/Output Mode Setting

情報更新：2025/06/19

Models Other Than H7CC-R11W□ in Tachometer Mode

Output mode setting	Operation
Upper and lower limit	 ON condition: Measurement value ≤ Comparison value 1 or Measurement value ≥ Comparison value 2 **Note:** When comparison value 1 ≥ Comparison value 2, the output is always ON regardless of the comparison value.
Area	 **Condition**: Comparison value 1 ≤ Comparison value 2 / Comparison value 1 > Comparison value 2 **ON condition**: Comparison value 1 ≤ measurement value ≤ Comparison value 2 / Comparison value 2 ≤ measurement value ≤ Comparison value 1
Upper limit	 ON condition: Measurement value ≥ Comparison value
Lower limit	 ON condition: Measurement value ≤ Comparison value

Models Other Than H7CC-R11W□ in AMD-compatible Mode

Output mode setting	Operation
Upper and lower limit	 ON condition: Measurement value < Comparison value 1 or Measurement value ≥ Comparison value 2 **Note:** When comparison value 1 ≥ comparison value 2, the output is always ON regardless of the comparison value.
Area	 **Condition**: Comparison value 1 ≤ Comparison value 2 / Comparison value 1 > Comparison value 2 **ON condition**: Comparison value 1 ≤ measurement value < Comparison value 2 / Comparison value 2 ≤ measurement value < Comparison value 1
Upper limit	 ON condition: Measurement value ≥ Comparison value
Lower limit	 ON condition: Measurement value < Comparison value

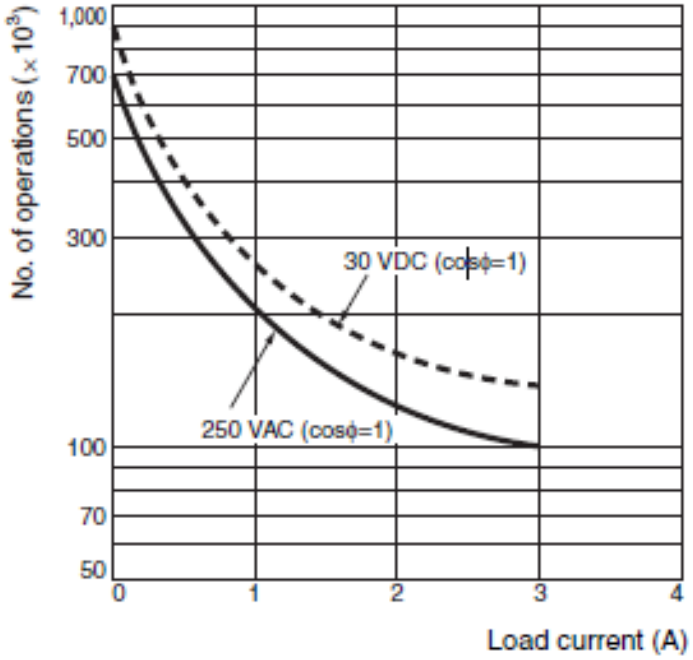
Note: If time "a" is exceeded during operation, the output will turn ON. If time "b" is exceeded during operation, the output will turn OFF. (If average processing is enabled, the output operation will be performed when the time is exceeded once.)

Electrical life

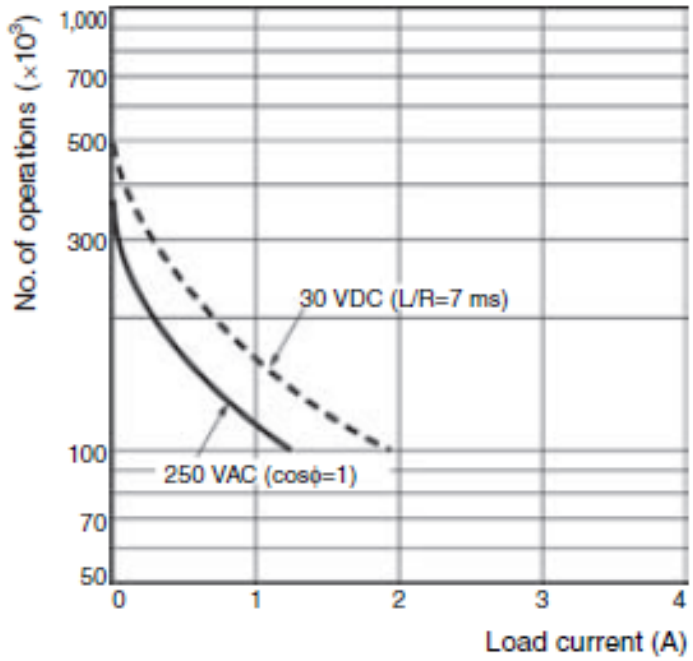
情報更新：2025/06/19

Life-test Curve (Reference Values)

Resistive Load



Inductive Load



A current of 0.15 A max. can be switched at 125 VDC (cosϕ=1) (Life expectancy: 100,000 operations)
A current of 0.1 A max. can be switched if L/R=7 ms.
(Life expectancy: 100,000 operations)

RoHS/REACH対応状況

情報更新：2026/5/13

EU RoHS

対応状況 ※1	対応予定月 ※2	非含有証明書 ※3
対応済み		ダウンロードはこちら

中国 RoHS

中国 RoHS表 ※1※2										
Pb	Hg	Cd	Cr(VI)	PBBs	PBDEs	DBP	DIBP	BBP	DEHP	環境保護使用期限
X	O	O	O	O	O	O	O	O	O	10

・“対応済み”や非含有の記載がされた商品であっても、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。

この製品のRoHS/REACH対応状況ページへ >

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

- 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	CCC認証	電波法
Yes	Yes	Yes	N/A	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 >