



**SECURITY  
OR SAFETY**  
controllers & more

# GE Series

## High Speed Counter/Timer (Batch Counter)



- Selectable Counter or Timer Function
- High Speed Counter (1, 0, 1K, 10K cps)
- One Shot Time Output (0.01s ~ 99.99s)
- 12 Kinds of Input Mode
- 12 Kinds of Start Time Ranges (0.01s ~ 999999h, 9999d23h)
- Prescale Set Up (6Digits : 0.001 ~ 99.999)

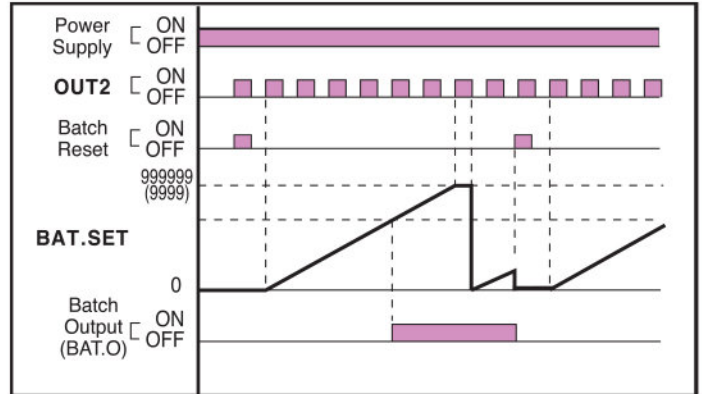
## ■ Features

- Batch Count output
- Key Lock Function
- External Power Output 12 V 200 mA
- NPN / PNP Input Selection Switch
- Data Saving Function When Power Off

## ■ Model and Suffix code

Model		Description
GE	<input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Digital Batch Counter
Appearance	GE3	(W)96.0 × (H)48.0 × (D)107.6 mm
	GE4	(W)48.0 × (H)48.0 × (D)84.3 mm
	GE6	(W)72.0 × (H)36.0 × (D)86.0 mm
	GE7	(W)72.0 × (H)72.0 × (D)92.0 mm
Type	P	PRESET · BATCH
	T	TOTAL (Indicator)
Digit	4	4 : 9999 (4 digit) ※GE3,GE7:Not available
	6	6 : 999999 (6 digit)
Stage	1	1 stage
	2	2 stage ※ Twin timer Support
Power supply	A	100 V - 240 V a.c
	D	24 V - 60 V d.c

## ■ Operation Chart of Batch Counter



## ■ Specification

Model		GE4	GE6	GE3	GE7
Power voltage	a.c	100 - 240 V a.c (50 - 60 Hz) ±10 %			
	d.c	24 - 60 V d.c / a.c (50 - 60 Hz) ±10 %			
Power consumption	a.c	Max. 13.5 V a.c		Max. 13.5 V a.c	
	d.c	Max. 9 VA		Max. 9 VA	
FND height		11 mm		13 mm	
		8 mm		10 mm	
Counting speed and input		1 cps / 30 cps / 1 K cps / 10 K cps Contact/Non-contact			
Memory for power failure.		10 years (Nonvolatile memory)			
Input		CP1, CP2, RESET, BATCH RESET (exclude TOTAL) 4inputs [H] level 4 - 30 V d.c, [L] level 0 - 2 V d.c Internal pull up/pull down resistance connection due to NPN/PNP setup			
Min input signal	Counter	External reset Min. input signal range: select among 0.1ms / 1ms / 20 ms			
	Timer	START, INHIBIT, RESET Min. input signal range: select either 1ms / 20 ms			
External output power	a.c	12 V d.c (±5 %) 200 mA Max.			
	d.c	12 V d.c (±5 %) 100 mA Max.			
ONE SHOT output		0.01-99.99 s [OUT1, OUT2(OUT)]			
Control output	contact	1 step	1c (OUT)	1a (OUT)	1c (OUT)
		2 step	1a (OUT1), 1c (OUT2)		
		Capacity	NO contact: 250V a.c. 3A resistance load, NC contact: 250V a.c. 2A resistance load		
	Non-contact	1 step	NPN 2 points(OUT,BAT.O)		
		2 step	-	-	NPN 2 points(OUT1,OUT2)
Capacity	Open collector 30 V d.c 100 mA Max.				
Timer operation		Comparative cycle: repeated setup error less than 5 ms for every 2 ms Stable time: 100 ms stable time when POWER ON			
Dielectric Strength		2000 V a.c 50 - 60 Hz for 1 minute			
Insulation Resistance		Min 100 MΩ (Based on 500 V d.c)			
Withstanding noise		Square wave noise by noise simulator (1 μs pulse per 16ms) ±2 kV (Power supply input terminal)			
Vibration	Malfunction	10 - 55 Hz (for 1 min period) double amplitude 0.5mm X.Y.Z each direction for 10 minutes			
	Durability	10 - 55Hz (for 1 min period) double amplitude 0.5mm X.Y.Z each direction for 2 hours			
Shock	Malfunction	100 % (About 10G)			
	Durability	300 % (About 30G)			
Relay Life	Electrical	Min. 100 thousand times (250 V a.c 2 A resistance load)			
	Mechanical	Min 1 million times			
Protection structure		IP65 (Front part only)			
Ambient temperature		-20 ~ 65 °C (Non freezing state)			
Ambient humidity		-10 ~ 55 °C, 35 ~ 85 % R.H. (No freezing or decondensation)			
Weight		Max.133 g	Max.138 g	Max.203 g	Max.203 g
Certificate		CE			

※If you want to modify Input and output type, please contact HANYOUNG sales office