				T3 Series Multi-function Time	are		
(	Classification	Multi-mode (/	Analog Setting)	OFF Delay	Star-Delta	Twin-Timer	
`		8-pin	With Inputs (11-pin)	(8-pin Terminal)	(8-pin Terminal)	(8-pin Terminal)	
Part No. (Rated voltage code in □)		(1) GT3A-1 (2) GT3A-2 (3) GT3A-3	(4) GT3A-4 (5) GT3A-5 (6) GT3A-6	(1) GT3F-1 (2) GT3F-2	(1) GT3S-1 (2) GT3S-2	(1) GT3W-A	
Shape							
Operation S	System	Solid-state CMOS circuitry	I	Solid-state CMOS circuitry	I.	I.	
Operation Mode		ON Delay Interval ON Cycle Cycle ON	(4) ON Delay, Cycle, Signal ON/OFF Delay, Signal OFF Delay (5) Interval ON, One Shot Cycle, Signal ON/OFF Delay, Signal OFF Delay (6) One Shot, One Shot ON Delay, One Shot, Signal ON/OFF Delay	(1) Power OFF Delay (with reset input) (2) Power OFF Delay	Star-Delta	(1) Sequential Start, Coarse/Fine Adjustment, Instantaneous Cycle, Cycle, Cycle Inversion, Interval ON, Interval ON Delay, Sequential Interval	
Time Ranges		0.1 sec to 180 hours		0.1 sec to 600 sec	Star: 0.05 to 100 sec Star-Delta: 0.05 sec 0.1 sec 0.25 sec 0.5 sec	0.1 sec to 6 hours 0.1 sec to 300 hours	
Contact		(1) Delayed SPDT (2) Delayed SPDT + Instantaneous SPDT (3) Delayed DPDT	Delayed DPDT (11-pin)	(1) Delayed SPDT (2) Delayed DPDT	(1) Delayed = Star:1NO, Delta:1NO (2) Delayed = Star:1NO, Delta:1NO Instantaneous = 1NO	Delayed SPDT + Delayed SPDT	
Output		(1)(2) 240V AC, 3A 120V AC/30V DC, 5A (resistive load)	(3)(4)(5)(6) 240V AC/24V DC, 5A (resistive load)	(1) 250V AC/24V DC, 5A (resistive load) (2) 250V AC/24V DC, 3A (resistive load)	250V AC/30V DC, 5A (resistive load) 250V AC, 1.5A/30V DC, 2A (inductive load)	240V AC, 3A 120V AC/30V DC, 5A (resistive load)	
	Repeat Error	±0.2%, ±10 ms (Note)		±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	
Timing	Setting Error	±10%		±10%	±10%	±10%	
Accuracy	Voltage Error	±0.2%, ±10 ms (Note)		±0.2%, ±10 ms (Note)	±0.2%, ±30 ms (Note) ±0.2%, ±10 ms (Note)		
	Temperature Error	±0.2%, ±10 ms (Note)		±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	
Reset Time	)	60 ms maximum		_	500 ms maximum	60 ms maximum	
Rated Volta	age	100 to 240V AC (50/60Hz) 24V AC (50/60Hz)/24V DC		100 to 240V AC (50/60Hz) 24V AC (50/60Hz)/24V DC	100 to 240V AC (50/60Hz)	100 to 240V AC (50/60Hz) 24V AC (50/60Hz)/24V DC	
External Co	onnection	Pin Terminals     Socket (DIN rail mount so     Snap Mounting Adapter	Pin Terminals     Socket (DIN rail mount screw terminal, panel mount screw terminal, solder terminal)				
	Mechanical	20,000,000 operations min	imum	3,000,000 operations minimum	20,000,000 operations minimum	20,000,000 operations minimum	
Life	Electrical	100,000 operations minimu	ım	100,000 operations minimum	100,000 operations minimum 100,000 operations minimum		
Input		_	No-voltage contact inputs/ Transistor inputs 24V DC, 1 mA maximum	(1) No-voltage contact inputs/Transistor 6V DC, 0.6 mA maximum	-	_	
Power Consumption (Approx.)		4.0VA (Delayed DPDT, 200V 0.7W (Delayed DPDT, 24V D		2.3VA (100V AC, 60Hz) 0.2W (24V DC)	4.0VA (200V AC, 60Hz)	5.1VA (200V AC, 60Hz) 0.9W (24V DC)	
Operating Temperature		-10 to +50°C (no freezing)					
Operating I	Humidity	35 to 85% RH (no condensa	ation)				
Storage Te	mperature	-30 to +70°C (no freezing)					
Storage Hu	ımidity	35 to 85% RH (no condensa	ation)				
Dimensions	s (Body)(mm)	40H × 36W × 72.2D		40H × 36W × 72.2D	40H × 36W × 72.2D	40H × 36W × 70D	
Weight (Ap	prox.)	(1) 63g (2) 73g (3) 79g	80g	(1) 77g (2) 79g	(1) 68g (2) 75g	73g	
Standards		UL, c-UL, CE	UL, c-UL, CE	UL, c-UL, CE	UL, c-UL, CE	UL, c-UL, CE	
Page		5	7	11	13	15	
Jota, The Ic		the error against a procest w	and the second and the second and the second and the second				

Note: The largest value becomes the error against a preset value depending on the time range.

GT5 Series Miniature Electronic Timers						
GT5Y (Solder Terminal)	GT5P (8-pin Terminal)					
(1) GT5Y-2S 🚁 (2) GT5Y-4S 🚁	(1) GT5P 🛣					
Operation mode, time range, and rated voltage code in 🔻	Operation mode, time range, and rated voltage code in 🔻					
RC oscillator						
(1)(2) ON Delay, Interval, or Cycle available on both types	ON Delay, Cycle, or One Shot available					
On Delay: 0.1 sec to 60 min Interval: 0.1 sec to 10 min Cycle: 0.1 sec to 10 min	On Delay: 0.1 sec to 10 min Cycle: 0.1 sec to 10 sec One Shot: 0.1 sec to 10 sec					
(1) Delayed DPDT (2) Delayed 4PDT	Delayed SPDT					
(1) 220V AC/30V DC, 5A(resistive load) (2) 220V AC/30V DC, 3A (resistive load)	240V AC, 3A 120V AC/30V DC, 5A (resistive load)					
±0.2%, ±20 ms (Note)	±0.2%, ±10 ms (Note)					
±10% maximum	±10% maximum					
±0.5%, ±20 ms (Note)	±0.5%, ±20 ms (Note)					
±3% maximum	±3% maximum					
100 ms maximum	100 ms maximum					
100 to 120V AC, 200 to 240V AC (50/60Hz), 12/24V DC	100 to 120V AC, 200 to 240V AC (50/60Hz), 12V DC, 24V AC (50/60Hz)					
Solder Terminal     Solder Terminal     Solder Terminal     Panel Mount Solder     PC Board Terminal	Pin Terminal     DIN Rail Mount Screw Terminal     Panel Mount Solder     Wrapping Terminal					
50,000,000 operations minimum	20,000,000 operations minimum					
(1) 500,000 operations minimum (2) 200,000 operations minimum	100,000 operations minimum					
_	_					
1.1VA, 1.2VA (100V AC, 60/50Hz) 1.2VA (200V AC, 60/50Hz) 1.0W (24V DC)	• Excluding One Shot 2.3VA (100V AC, 60Hz) 3.9VA (200V AC, 60Hz) 0.5W (24V DC)					
-10 to +50°C (no freezing)	-10 to +50°C (no freezing)					
35 to 85% RH (no condensation)	35 to 85% RH (no condensation)					
-30 to +80°C (no freezing)	-30 to +70°C (no freezing)					
35 to 85% RH(no condensation)	35 to 85% RH (no condensation)					
27.5H × 21W × 58.6D	36H × 29W × 69D					
50g	49g					
UL, c-UL, CE	UL, CSA, CE					

GE1A Serie	es Electronic Timers
GE1A-B	GE1A-C
4 differ	ent time ranges
GE1A ①②③ ① Contact code ② Time range code ③ Rated voltage code	GE1A ①②③ ① Contact code ② Time range code ③ Rated voltage code
O GEA	Inte O
RC oscillator	
ON delay (Instantaneous contact)	ON delay
10H (0.1 min to 10 hours) 30H (0.3 min to 30 hours)	
Delayed + Instantaneous	Delayed
240V AC/5A, 24V DC/5A (resistive load)	
±0.2% ±10 ms maximum	
±10% maximum	
±0.5% ±10 ms maximum ±3% maximum	
100 ms minimum	
	- 040V AO 04V AO/DO
100 to 110V AC, 200 to 200V AC, 220 t	0 24UV AU, 24V AU/DU 
Octal Pin Terminal Socket (Din rail mount socket, Panel	mount socket, PC board mount socket)
GE1A-B: 10,000,000 operations minimum	n GE1A-C: 5,000,000 operations minimum
100,000 operations minimum	
	_
7.7 VA, 6.6 VA (220V AC, 60/50Hz) 7.0 VA, 6.0 VA (200V AC, 60/50Hz) 3.8 VA, 3.3 VA (110V AC, 60/50Hz) 3.5 VA, 3.0 VA (100V AC, 60/50Hz) 1.6 VA/1.0W (24V AC/DC)	8.0 VA, 7.0 VA (220V AC, 60/50Hz) 8.0 VA, 7.0 VA (200V AC, 60/50Hz) 3.5 VA, 3.0 VA (110V AC, 60/50Hz) 3.5 VA, 3.0 VA (100V AC, 60/50Hz) 2.0 VA/ 0.8W (24V AC/DC)
	_
	_
	_
40U ~ 40W ~ 0E 0D	_
48H × 48W × 95.2D 101g	95g
	c-UL, TÜV, CE
OL, C	,,

## **GT3** Series Multi-function Timers

## Wide Variety Including OFF Delay and Star-Delta

- Universal AC power voltage 100 to 240V AC
- · Solid-state CMOS circuitry ensures high accuracy
- Easy-to-view operation indicator
- DIN 48mm square panel mount adapter for snap mounting
- Complies with safety standards. UL/c-UL listed.
- Complies with EN standard

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	CULUS	UL/c-UL Listed File No. E55996
EN61812-1	( (	EU Low Voltage Directive

### [Multi-mode]

- Instantaneous operation at zero setting
- Multi-mode, and universal AC power voltage cover 96 types by one timer



### Multi-Mode (Analog Setting)

For details, see pages 5 to 10.

Operation N	Operation Mode		Contact	Time Range	Output	Operating Voltage	Part No.
			Delayed SPDT		240V AC, 3A	100 to 240V AC	GT3A-1AF20
On Delay		GT3A-2	Delayed SPDT +	0.1.000.40	120V AC/	100 to 240V AC	GT3A-2AF20
Interval ON Cycle OFF		013A-2	Instantaneous SPDT	0.1 sec to 180 hours	30V DC, 5A	24V AC/24V DC	GT3A-2AD24
Cycle ON		GT3A-3	Delayed DPDT	Too nours	240V AC/	100 to 240V AC	GT3A-3AF20
',' '		UISA-S	Delayed DFD1		24V DC, 5A	24V AC/24V DC	GT3A-3AD24
ON Delay						100 to 240V AC	GT3A-4AF20
Cycle Signal ON/OFF Delay Signal OFF Delay	With Input GT3A-4	GT3A-4				24V AC/24V DC	GT3A-4AD24
Interval ON	Delay   With input   G13A-5   Delayed DPD1 (11P)   180 hours		1			100 to 240V AC	GT3A-5AF20
One Shot Cycle Signal ON/OFF Delay Signal OFF Delay		240V AC/ 24V DC, 5A	24V AC/24V DC	GT3A-5AD24			
One Shot						100 to 240V AC	GT3A-6AF20
One Shot ON Delay One Shot Signal ON/OFF Delay	hot   WITH INPUT   G13A-6				24V AC/24V DC	GT3A-6AD24	

### **OFF Delay**

### For details, see pages 11 to 12.

Operation Mode		Model	Contact	Time Range	Output	Operating Voltage	Part No.
Power OFF Delay	With	GT3F-1	Delayed SPDT	0.1 sec to 600 sec	250V AC/	100 to 240V AC	GT3F-1AF20
	Reset Input	disr-i			24V DC, 5A	24V AC/24V DC	GT3F-1AD24
	Without Reset Input GT3F-2	CT2E 2	Delayed DPDT		250V AC/	100 to 240V AC	GT3F-2AF20
		Delayeu DFD1		24V DC, 3A	24V AC/24V DC	GT3F-2AD24	

### Star-Delta

### For details, see pages 13 to 14.

Operation Mode	Model	Contact	Time Range	Output	Operating Voltage	Part No.
Star-Delta	GT3S-1	Delayed Star: SPST-NO Delta: SPST-NO	Star: 0.05 to 100 sec Star-Delta: 0.05 sec	250V AC/		GT3S-1AF20
	GT3S-2	Delayed Star: SPST-NO Delta: SPST-NO Instantaneous: SPST-NO	0.1 sec 0.25 sec 0.5 sec	250V AC/ 30V DC, 5A	100 to 240V AC	GT3S-2AF20

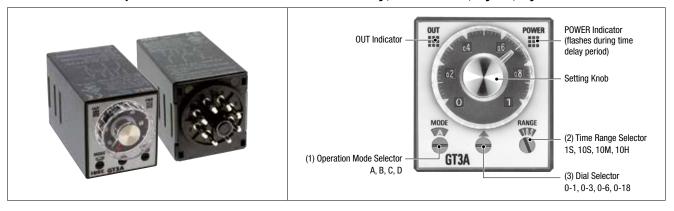
## Twin-Timer

### For details, see pages 15 to 16.

· ····································							
Operation Mode	Model	Contact	Time Range	Output	Operating Voltage	Part No.	
Serial Activation		Delayed SPDT + Delayed SPDT	T1: 0.1 sec to 6 hours	240V AC, 3A 120V AC/	100 to 240V AC	GT3W-A11AF20N	
Coarse/Fine Adjustment Setting Instantaneous			T2: 0.1 sec to 6 hours		24V AC/24V DC	GT3W-A11AD24N	
	GT3W-A		SPDT + T2: 0.1 sec to 300 hours SPDT T1: 0.1 sec to 300 hours 120V A		100 to 240V AC	GT3W-A13AF20N	
Cycle					24V AC/24V DC	GT3W-A13AD24N	
Cycle Cycle Inversion	GISW-A				100 to 240V AC	GT3W-A31AF20N	
Interval ON Interval ON Delay				30V DC, 5A	24V AC/24V DC	GT3W-A31AD24N	
			T1: 0.1 sec to 300 hours T2: 0.1 sec to 300 hours		100 to 240V AC	GT3W-A33AF20N	
Serial Interval ON					24V AC/24V DC	GT3W-A33AD24N	

## GT3A-1, -2, -3 (8-Pin)

## Four Selectable Operation Modes in One Timer: ON Delay, Interval ON, Cycle, Cycle ON



(1) Operation Mode	Rated Voltage	Time Ranges	Output	Contact	Part No.
	100 to 240V AC		240V AC, 3A	Delayed SPDT	GT3A-1AF20
A: ON Delay	100 to 240V AC	See Time Ranges for details.	120V AC/30V DC, 5A (resistive load)	Delayed SPDT + Instantaneous SPDT	GT3A-2AF20
B: Interval ON C: Cycle OFF	24V AC/24V DC				GT3A-2AD24
D: Cycle ON	100 to 240V AC		240V AC/24V DC, 5A	Deleved DDDT	GT3A-3AF20
D. Oyolo oli	24V AC/24V DC		(resistive load)	Delayed DPDT	GT3A-3AD24

## Time Ranges

(3) Dial (2) Range	0 - 1	0 - 3	0 - 6	0 - 18
18	0.1 sec to	0.1 sec to	0.1 sec to	0.2 sec to
	1 sec	3 sec	6 sec	18 sec
10S	0.1 sec to	0.3 sec to	0.6 sec to	1.8 sec to
	10 sec	30 sec	60 sec	180 sec
10M	6 sec to	18 sec to	36 sec to	108 sec to
	10 min	30 min	60 min	180 min
10H	6 min to	18 min to	36 min to	108 min to
	10 hours	30 hours	60 hours	180 hours

## **Contact Ratings**

Model		GT3A-1, GT3A-2	GT3A-3	
Rated L	_oad	240V AC, 3A (resistive load) 120V AC/30V DC, 5A (resistive load)	240V AC/24V DC, 5A (resistive load)	
Maximum Switching Power		AC: 960VA DC: 120W	AC: 1200VA DC: 120W	
Maximi Voltage	um Switching	250V AC/150V DC		
Maximi Current	um Switching t	5A		
Maximi Freque	um Switching ncy	600 operations/hour	600 operations/hour	
Minimu Load	ım Applicable	5V DC, 10 mA (reference value)		
Externa Elemen	al Protection It	Fuse 250V, 5A		
Life	Electrical	100,000 operations minimum (rated load)		
Lile	Mechanical	20,000,000 operations minimum		

## **General Specifications**

Model		GT3A-1 GT3A-2 GT3A-3			
Operation S	System	Solid-state CMOS	S circuitry		
Operation		Multi-Mode			
Time Rang	е	0.1 sec to 180 ho	ours		
Pollution D	egree	2 (IEC60664-1)			
Overvoltag	e Category	III (IEC60664-1)			
Rated	AF20	100 to 240V AC (	50/60Hz)		
Voltage	AD24	24V AC (50/60Hz)	)/24V DC		
Voltage	AF20	85 to 264V AC (5	0/60Hz)		
Range	AD24	20.4 to 26.4V AC	(50/60Hz)/21.6 to	26.4V DC	
Reset Volta	ige	Rated voltage ×	10% minimum		
Operating 7	Temperature	-10 to +50°C (n	o freezing)		
Storage Te	mperature	-30 to +70°C (n	o freezing)		
Operating I	Humidity	35 to 85% RH (no	condensation)		
Storage Hu	ımidity	35 to 85% RH (no	condensation)		
Altitude		0 to 2000m (oper	ration), 0 to 3000m	(transportation)	
Reset Time	)	60 ms maximum			
Repeat Err	or	±0.2%, ±10 ms i	maximum (Note)		
Voltage Err	or	±0.2%, ±10 ms maximum (Note)			
Temperatu	re Error	±0.2%, ±10 ms maximum (Note)			
Setting Err	or	±10% maximum			
Insulation I	Resistance	100 MΩ minimum (500V DC megger)			
Dielectric S	Strength	Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute (GT3A-1, 2) 1000V AC, 1 minute (GT3A-3)			
Vibration Resistance		GT3A-1/-2/-3: Damage limits: 10 to 55 Hz, amplitude 0.75mm, 2 hours each in 3 directions GT3A-1/-2: Operating extremes: 10 to 55 Hz, amplitude 0.75mm, 2 hours each in 3 directions GT3A-3: Operating extremes: 10 to 55 Hz, amplitude 0.41mm, 2 hours each in 3 directions			
Shock Res	istance	3 shocks each in 6		·	
Degree of I	Protection	IP40 (timer), IP20	(socket) (IEC6052	9)	
r mption xx.) AF20	100V AC/60Hz	2.9VA	2.5VA	2.2VA	
sump rox.)	200VAC/60Hz 024 (AC/DC)	4.7VA	4.3VA	4.0VA	
S 등 등 AE	024 (AC/DC)	1.3VA/0.5W	2.0VA/0.8W	1.8VA/0.7W	
Dimension	S	40H × 36W × 72.2D mm			
Weight (ap	prox.)	63g	73g	79g	
Mata. Tha Jane	ant value become	ne the error against a	nroast valua danandir		

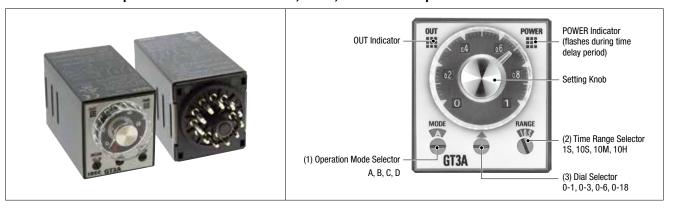
Note: The largest value becomes the error against a preset value depending on the time range.

## **Operation Chart**

Operation Ghart		Operation Chart		
Part No.	GT3A-1	GT3A-2	GT3A-3	
Contact	Delayed SPDT	Delayed SPDT + Instantaneous SPDT	Delayed DPDT	
Internal Connection Operation Mode Selection	6 5 7()/(+)	3 4 6 5 7(~)/(+) 1 8 2(~)/(-)	3 4 6 5 7(~)/(+) 1 8 2(~)/(-)	
On Delay	Hom Terminal Operation	Item Terminal Operation	ton Terminal Operation	
MODE  A  Set timer for desired delay, apply power to coil. Contacts transfer after preset time has elapsed, and remain in transferred position until timer is reset. Reset occurs with removal of power.	Tem	No.   Operation	No.	
Interval ON  MODE  B  Set timer for desired delay, apply power to coil. Contacts transfer immediately, and return to original position after preset time has elapsed. Reset occurs with removal of power.	Item   Terminal   No.   Operation	Item   Terminal   No.   Operation	Item	
Cycle OFF (OFF start)  MODE  C  C  Set timer for desired delay, apply power to coil. First transfer of contacts occurs after preset delay has elapsed, after the next elapse of preset delay contacts return to original position. The timer now cycles between on and off as long as power is applied. The ratio is 1:1. Time Off = Time On	Item   Terminal	Item   Terminal   No.   Operation   No.   Power   2-7   Set Time   Operation   Operation	Item Terminal No.  Power 2-7 Set Time  5-8,4-1 (NC)  Contact 6-8,3-1 (NU)  POWER OUT	
Functions in same manner as Mode C, with the exception that first transfer of contacts occurs as soon as power is applied. The ratio is 1:1. Time Off = Time On	Item   Terminal No.   Operation	Item   Terminal No.   Operation	Item	

## GT3A-4, -5, -6 (11-Pin)

## Four Selectable Operation Modes with Start, Gate, and Reset Inputs for External Control



(1) Operation Mode		Rated Voltage Code	Time Ranges	Output	Contact	Input	Part No.
A: ON Delay	B: Cycle OFF	100 to 240V AC					GT3A-4AF20
C: Signal ON Delay	D: Signal OFF Delay	24V AC/24V DC					GT3A-4AD24
A: Interval ON	B: One-Shot Cycle,	100 to 240V AC	0.1 sec to 180 hours	240V AC, 5A 24V DC. 5A	Delayed	Start Reset	GT3A-5AF20
C: Signal ON/OFF Delay	D: Signal OFF Delay	24V AC/24V DC	See Time Ranges for details	(resistive load)	DPDT	Gate	GT3A-5AD24
A: One-Shot	B: One-Shot ON Delay	100 to 240V AC	dotano	(roolotivo loda)			GT3A-6AF20
C: One-Shot	D: Signal ON/OFF Delay	24V AC/24V DC					GT3A-6AD24

## **Time Ranges**

(3) Dial (2) Range	0 - 1	0 - 3	0 - 6	0 - 18
18	0.1 sec to	0.1 sec to	0.1 sec to	0.2 sec to
	1 sec	3 sec	6 sec	18 sec
10S	0.1 sec to	0.3 sec to	0.6 sec to	1.8 sec to
	10 sec	30 sec	60 sec	180 sec
10M	6 sec to	18 sec to	36 sec to	108 sec to
	10 min	30 min	60 min	180 min
10H	6 min to	18 min to	36 min to	108 min to
	10 hours	30 hours	60 hours	180 hours

### **Contact Ratings**

Rated Load		240V AC/24V DC, 5A (resistive load)
Maximum Switching Power		AC: 1200VA DC: 120W
Maximum Sv	vitching Voltage	250V AC/150V DC
Maximum Sv	vitching Current	5A
Maximum Sv	vitching Frequency	600 operations/hour
Minimum Ap	plicable Load	5V DC, 10 mA (reference value)
External Prot	ection Element	Fuse 250V, 5A
Life	Electrical	100,000 operations minimum (rated load)
	Mechanical	20,000,000 operations minimum

## **Input Specifications**

Start Input	The start input initiates delayed operation and controls output status.	No-voltage contact inputs and	
Reset Input	When the reset input goes on (L level), the timer is reset to the original time (time at power-on).	NPN open collector transistor inputs are applicable. 24V DC, 1 mA maximum Input response time:	
Gate Input	The time delay operation is suspended while the gate input is on (L level).	50 ms maximum	

## **General Specifications**

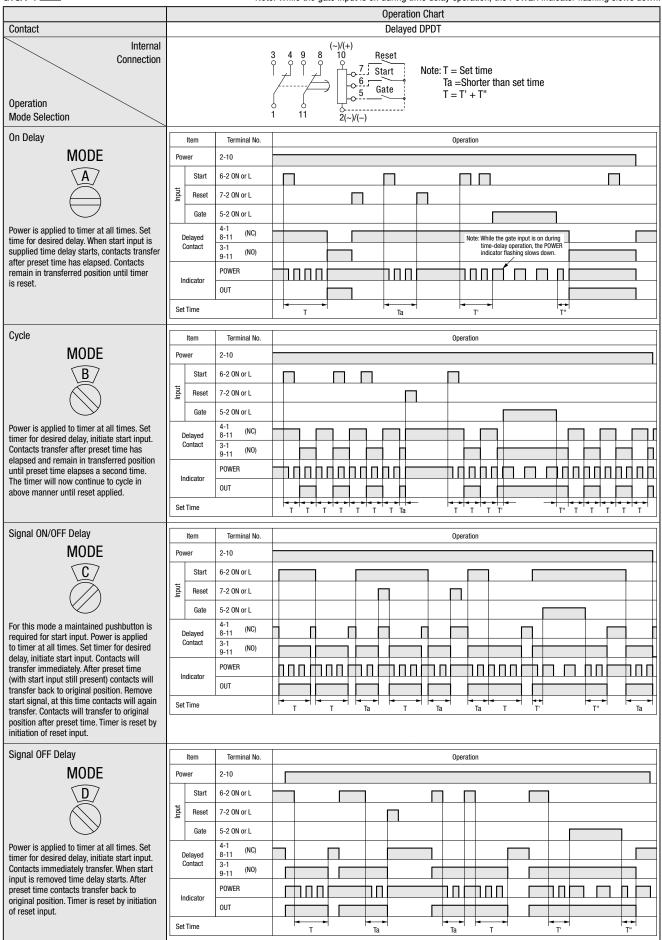
•			
Operation System		Solid-state CMOS circuitry	
Operation		Multi-mode with inputs (11 pins)	
Time Range		0.1 sec to 180 hours	
Pollution Degree		2 (IEC60664-1)	
Overvoltage Categor	у	III (IEC60664-1)	
Rated Voltage	AF20	100 to 240V AC (50/60Hz)	
nateu voltage	AD24	24V AC (50/60Hz)/24V DC	
Voltago Dango	AF20	85 to 264V AC (50/60Hz)	
Voltage Range	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC	
Reset Voltage		Rated voltage × 10% minimum	
Operating Temperati	ıre	-10 to +50°C (no freezing)	
Storage Temperature	<del></del>	-30 to +70°C (no freezing)	
Operating Humidity		35 to 85% RH (no condensation)	
Storage Humidity		35 to 85% RH (no condensation)	
Altitude		0 to 2000m (operation)	
Ailituue		0 to 3000m (transportation)	
Reset Time		60 ms maximum	
Repeat Error		±0.2%, ±10 ms (Note)	
Voltage Error		±0.2%, ±10 ms (Note)	
Temperature Error		±0.2%, ±10 ms (Note)	
Setting Error		±10% maximum	
Insulation Resistanc	е	100MΩ minimum (500V DC megger)	
		Between power and output terminals:	
		2000V AC, 1 minute	
Dielectric Strength		Between contacts of different poles: 2000V AC, 1 minute	
		Between contacts of the same pole:	
		1000V AC, 1 minute	
		Damage Limits: 10 to 55 Hz, amplitude 0.75 mm,	
Vibration Resistance		2 hours each in 3 directions	
TISTATION HOOGICATIO		Operating extremes: 10 to 55 Hz, amplitude	
		0.41mm, 2 hour each in 3 directions	
Shock Resistance		Operating extremes: 98 m/s <sup>2</sup> Damage limits: 490 m/s <sup>2</sup>	
		3 shocks each in 6 directions	
Degree of Protection		IP40 (timer), IP20 (socket) (IEC60529)	
Power Consumption	AF20	2.2VA (100V AC/60Hz), 4.1VA (200V AC/60Hz)	
(Approx.)	AD24	1.8VA (AC)/0.7W (DC)	
Dimensions		40H × 36W × 72.2D mm	
Weight (approx.)		80g	
Note: The largest valu		and the error against a preset value depending on the	

Note: The largest value becomes the error against a preset value depending on the time range.

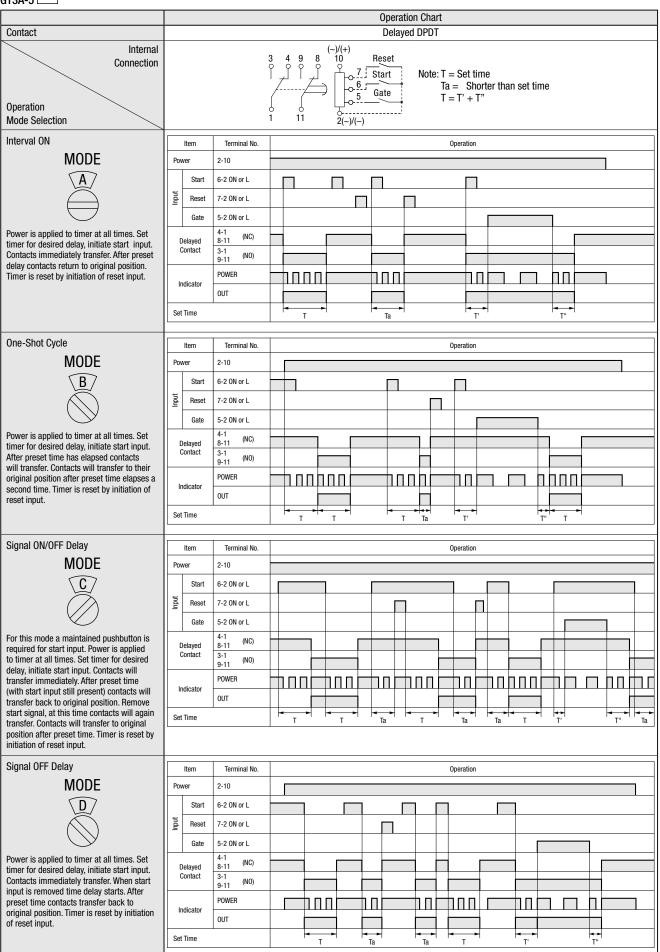
### **Operation Chart**

GT3A-4 ....

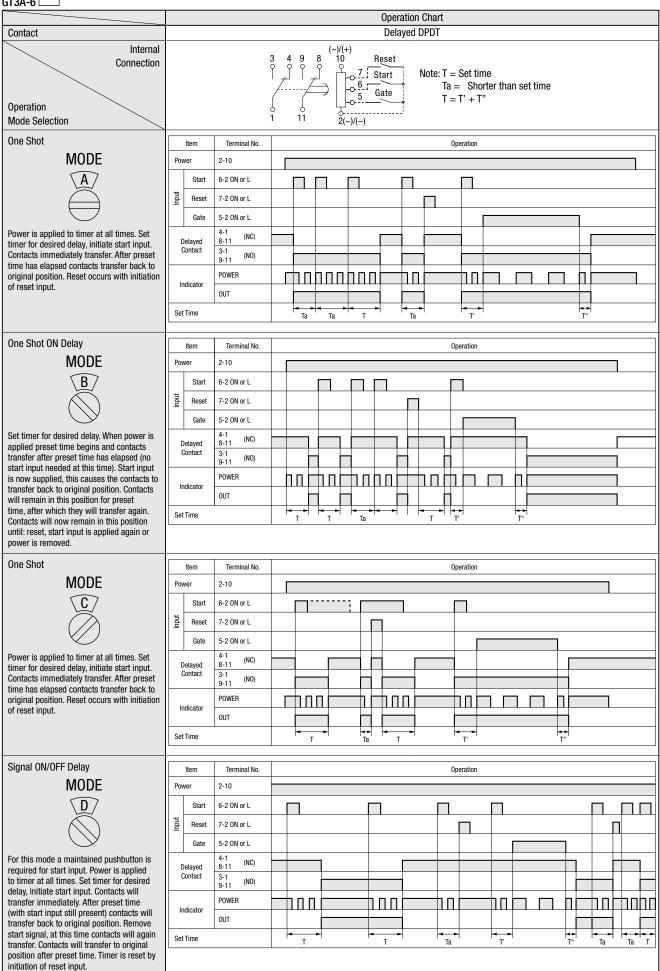
Note: While the gate input is on during time delay operation, the POWER indicator flashing slows down.



### GT3A-5 ....

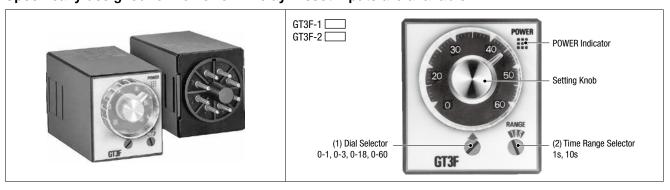


### GT3A-6 .



## GT3F-1/GT3F-2 (8-Pin)

## Specifically designed for Power OFF Delay. Reset Inputs are available.



(1) Operation Mode	Rated Voltage Code	Time Ranges	Output	Contact	Input	Part No.
	100 to 240V AC	V DC	250V AC/24V DC 5A	Delayed SPDT	Reset	GT3F-1AF20
Power	24V AC/24V DC		250V AG/24V DG, 5A			GT3F-1AD24
OFF Delay	100 to 240V AC		0E0V AC/04V DC 2A	Delayed DPDT	Without	GT3F-2AF20
	24V AC/24V DC		200V AG/24V DG, 3A	Delayed DPD1	Without	GT3F-2AD24

## **Time Ranges**

### GT3F-1/GT3F-2

(3) Dial (2) Range	0 - 1	0 - 3	0 - 18	0 - 60
18	0.1 sec to 1	0.1 sec to 3	0.2 sec to 18	0.6 sec to
	sec	sec	sec	60 sec
108	0.1 sec to 10	0.3 sec to 30	1.8 sec to 180	6 sec to
	sec	sec	sec	600 sec

Timeout Repeat Cycle	3 sec minimum
Reset Input Repeat Cycle	3 sec minimum

## **Contact Ratings**

Model		GT3F-1	GT3F-2	
Rated Load		250V AC/24V DC, 5A (resistive load)	250V AC/24V DC, 3A (resistive load)	
Minimum Switching Power		AC: 1250VA DC: 150W	AC: 750VA DC: 90W	
Minimum Switching Voltage		250V AC/125V DC		
Minimum Switching Current		5A	3A	
Maximum	Switching Frequency	1800 operations/hour		
Minimum	Applicable Load	5V DC, 10 mA	5V DC, 100 mA	
External P	rotection Element	Fuse 250V, 5A	Fuse 250V, 3A	
Life	Electrical	100,000 operations minimum (rated load)		
	Mechanical	3,000,000 operations minimum		

## **Input Specifications**

Reset Input	The contact is reset by turning the reset input on (L level).  No-voltage contact input and NPN open collector transistor input are applicable.  6V DC, 0.6 mA maximum Input Response Time (AC):  ON: 50 ms maximum  OFF: 1 sec maximum
-------------	---

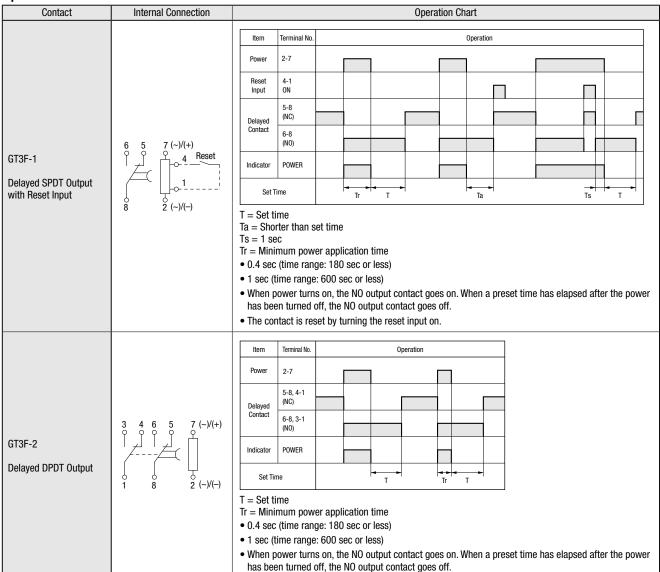
## **General Specifications**

Operation System Operation Time Range Pollution Degree Overvoltage Category Rated Voltage  Voltage Range  Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Degree of Protection Power Consumption (approx.) AF20 AD24	Solid-state CMOS circuitry		
Pollution Degree Overvoltage Category Rated Voltage Voltage Range  Voltage Range  AF20 AD24  Time Delay Operation Start Voltage Minimum Power Application Time (Note 1) Operating Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	Power OFF delay		
Overvoltage Category Rated Voltage AF20 AD24 Voltage Range Time Delay Operation Start Voltage Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	0.1 sec to 600 hours		
Overvoltage Category Rated Voltage AF20 AD24 Voltage Range Time Delay Operation Start Voltage Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	2 (IEC60664-1)		
Rated Voltage  Voltage Range  AD24  Time Delay Operation Start Voltage  Minimum Power Application Time (Note 1)  Operating Temperature  Storage Temperature  Operating Humidity  Altitude  Repeat Error  Voltage Error  Temperature Error  Setting Error  Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection  Power Consumption (approx.)  AF20  (approx.)	III (IEC60664-1)		
Voltage Range  AF20 AD24  Time Delay Operation Start Voltage  Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity  Altitude  Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	100 to 240V AC (50/60Hz)		
Time Delay Operation Start Voltage Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AD24	24V AC (50/60Hz)/24V DC		
Time Delay Operation Start Voltage Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AP20 AD24	85 to 264V AC (50/60Hz)		
Voltage Minimum Power Application Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 (approx.)	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC		
Time (Note 1) Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 (approx.)	Rated Voltage × 10% minimum		
Operating Temperature Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 (approx.)	0.4 sec (time range: 180 sec or less) 1 sec (time range: 600 sec)		
Storage Temperature Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	-10 to +50°C (no freezing)		
Operating Humidity Storage Humidity Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	-30 to +70°C (no freezing)		
Storage Humidity  Altitude  Repeat Error  Voltage Error  Temperature Error  Setting Error  Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection  Power Consumption (approx.)  AF20  AD24	35 to 85% RH (no condensation)		
Altitude Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	35 to 85% RH (no condensation)		
Repeat Error Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	0 to 2000m (operation)		
Voltage Error Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 (AD24	0 to 3000m (transportation)		
Temperature Error Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	±0.2%, ±10 ms (Note 2)		
Setting Error Insulation Resistance  Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	±0.2%, ±10 ms (Note 2)		
Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection Power Consumption (approx.)  AF20 AD24	±0.2%, ±10 ms (Note 2)		
Dielectric Strength  Vibration Resistance  Shock Resistance  Degree of Protection  Power Consumption (approx.)  AF20  AD24	±10%		
Vibration Resistance  Shock Resistance  Degree of Protection  Power Consumption (approx.)  AF20  AD24	100 MΩ min. (500V DC megger)		
Shock Resistance  Degree of Protection  Power Consumption (approx.)  AF20  AD24	Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 1000V AC, 1 minute		
Degree of Protection  Power Consumption (approx.)  AF20  AD24	Damage limits/operating extremes: 10 to 55Hz, amplitude 0.75 mm, 2 hours each in 3 directions		
Power Consumption (approx.) AF20 AD24	Operating extremes: 98 m/s², Damage limits: 490 m/s², 3 shocks each in 6 directions		
(approx.) AD24	IP40 (timer), IP20 (socket) (IEC60529)		
, , , , , , , , , , , , , , , , , , , ,	1.1 VA (100V AC/60Hz), 2.3 VA (200V AC/60Hz)		
D: .	0.7 VA (AC)/0.2W (DC)		
Dimensions	40H × 36W × 72.2D mm		
Weight (approx.)	GT3F-1 GT3F-2		
weight (approx.)	77g 79g		

Note 1: An inrush current flows during minimum power application time. AF20: Approx. 0.4A, AD24: Approx. 1.2A

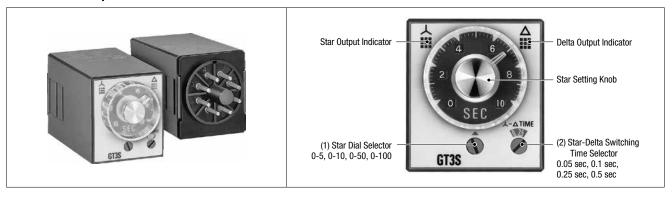
Note 2: The largest value becomes the error against a preset value depending on the time range.

### **Operation Chart**



## GT3S-1/GT3S-2 (8-Pin)

## Star-Delta Output Mode



(1) Operation Mode	Rated Voltage	Time Range	Output	Contact	Part No.
Star-Delta	100 to 240V AC	Star: 0.05 to 100 sec Star-Delta switching time 0.05 sec	250V AC/ 30V DC. 5A	Star: Delayed SPST-NO Delta: Delayed SPST-NO	GT3S-1AF20
	100 to 240V AC	0.10 sec 0.25 sec 0.50 sec	(resistive load)	Star: Delayed SPST-NO Delta: Delayed SPST-NO Instantaneous SPST-NO	GT3S-2AF20

## **Time Ranges**

① Sta	r Dial Selector	② Star-Delta Switching Time Selector		
Dial	Time Range	Indication	Time	
0 – 5	0.05 sec - 5 sec	0.05	0.05 sec	
0 – 10	0.1 sec - 10 sec	0.1	0.1 sec	
0 – 50	0.5 sec - 50 sec	0.25	0.25 sec	
0 – 100	1 sec - 100 sec	0.5	0.5 sec	

## **Contact Ratings**

Rated Load		250V AC/30V DC, 5A (resistive load) 250V AC, 1.5A/30V DC, 2A (inductive load)		
Maximum	Switching Power	AC: 1250VA DC: 150W		
Maximum	Switching Voltage	250V AC/125V DC		
Maximum	Switching Current	5A		
Maximum	Switching Frequency	600 operations/hour		
Minimum	Applicable Load	5V DC, 100mA (reference value)		
External P	rotection Element	Fuse 250V, 5A		
Life	Electrical	100,000 operations minimum (rated load)		
LIIE	Mechanical	20,000,000 operations minimum		

## **General Specifications**

Operation System	Solid-state CMOS circuitry	y			
Operation	Star-delta				
Time Range	Star side: 0.05 sec to 100 Star delta switching time:				
Pollution Degree	2 (IEC60664-1)				
Overvoltage Category	III (IEC60664-1)				
Rated Voltage	100 to 240V AC (50/60Hz)				
Voltage Range	85 to 264V AC (50/60Hz)				
Reset Voltage	Rated Voltage × 10% min	imum			
Operating Temperature	-10 to +50°C (no freezin	g)			
Storage Temperature	-30 to +70°C (no freezin	g)			
Operating Humidity	35 to 85% RH (no conden	sation)			
Storage Humidity	35 to 85% RH (no conden	sation)			
Altitude	0 to 2000m (operation) 0 to 3000m (transportation)				
Reset Time	500 ms maximum				
Repeat Error	±0.2%, ±10 ms (Note)				
Voltage Error	±0.2%, ±30 ms (Note)				
Temperature Error	±0.2%, ±10 ms (Note)				
Setting Error	±10% maximum				
Insulation Resistance	100 MΩ minimum (500V DC megger)				
Dielectric Strength	Between power and output 2000V AC, 1 minute Between contacts of differ 2000V AC, 1 minute Between contacts of the s 1000V AC, 1 minute	rent poles:			
Vibration Resistance	Damage limits/operating of 10 to 55 Hz, amplitude 0.7 2 hours each in 3 direction	75 mm,			
Shock Resistance	Operating extremes: 98 m/s², Damage limits: 490 m/s², 3 shocks each in 6 directions				
Degree of Protection	IP40 (timer), IP20 (socket) (IEC60529)				
Dower Consumption	GT3S-1AF20	GT3S-2AF20			
Power Consumption (approx.)	2.3VA (100V AC/60Hz)	2.3VA (100V AC/60Hz)			
(αρρι Ολ.)	4.0VA (200V AC/60Hz) 3.8VA (200V AC/60Hz)				
Dimensions	40H × 36W × 72.2D mm				
Woight (approx)	GT3S-1AF20	GT3S-2AF20			
Weight (approx.)	68g	75g			

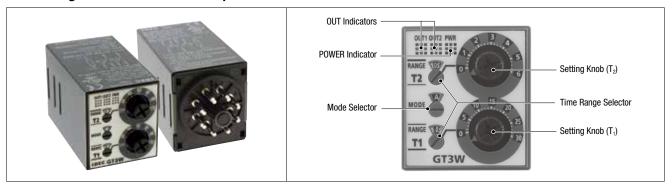
Note: The largest value becomes the error against a preset value depending on the time range.

## **Operation Chart**

Contact	Internal Connection	Operation Chart				
		Item Terminal No. Operation				
		Power 2-7				
		Star Delayed 8-5 Contact (NO)				
	5 6 7	Delta Delayed Contact (NO)				
GT3S-1 Star : Delayed SPST-NO		Star				
Delta: Delayed SPST-NO	8 2 (~)	Indicator Delta				
	(~)	Set Time T <sub>1</sub> T <sub>2</sub> T <sub>3</sub>				
		The star delayed contact goes on when power is turned on and goes off after a set time for the star contact $(T_1)$ .  The delta contact goes on after star-delta switching time $(T_2)$ and goes off when power is turned off.  • $T_1 = \text{Star ON time}$ (Set Time), $T_2 = \text{Star-delta}$ switching time, $T_3 = \text{Star ON time}$				
		Item Terminal No. Operation				
		Power 2-7				
		Star Delayed 8-5 Contact (NO)				
		Delta Delayed Contact (NO)				
GT3S-2	(~) 3 5 6 7	Instantaneous 3-1 (NO)				
Star : Delayed SPST-NO Delta: Delayed SPST-NO Instantaneous		Indicator Star				
SPST-NO	1 8 2	Delta				
	(~)	Set Time T <sub>1</sub> T <sub>2</sub> T <sub>3</sub>				
		<ul> <li>The star delayed contact goes on when power is turned on and goes off after a set time for the star contact (T<sub>1</sub>).</li> <li>The delta contact goes on after star-delta switching time (T<sub>2</sub>) and goes off when power is turned off</li> <li>Instantaneous contact goes on when power is turned on and goes off when power is turned off.</li> <li>T<sub>1</sub> = Star ON time (Set Time), T<sub>2</sub> = Star-delta swithing time, T<sub>3</sub> = Star ON time</li> </ul>				

## GT3W-A11, -A13, -A31, A33

## Multi-range Twin-Timer with 8 operation modes



(1) Operation Mode	Rated Voltage	Time F	Part No.	
(1) Operation wode	hateu voitage	T <sub>1</sub>	T <sub>2</sub>	raitivo.
Sequential Start Coarse/Fine Adjustment Instantaneous Cycle	100 to 240V AC		0.1 sec to 6 hours	GT3W-A11AF20N
	24V AC/24V DC	0.1 sec to 6 hours 0.1 sec to 300 hours	GT3W-A11AD24N	
	100 to 240V AC		0.1 con to 200 hours	GT3W-A13AF20N
Cycle	24V AC/24V DC		0.1 866 10 300 110018	GT3W-A13AD24N
Cycle Inversion Interval ON Interval ON Delay Sequential Interval	100 to 240V AC	0.1 sec to 300 hours	0.1 sec to 6 hours	GT3W-A31AF20N
	24V AC/24V DC		0.1 500 to 0 110015	GT3W-A31AD24N
	100 to 240V AC	0.1 866 10 300 110018	0.1 sec to 300 hours	GT3W-A33AF20N
	24V AC/24V DC		0.1 Sec to 300 Hours	GT3W-A33AD24N

## **Time Ranges**

0.1	sec to 6 h	ours	0.1 sec to 300 hours		
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range
18		0.1 sec to 1 sec	1S		0.1 sec to 3 sec
108	0 - 1	0.3 sec to 10 sec	1M	0 - 3	3.8 sec to 3 min
10M		15 sec to 10 min	1H		3.8 min to 3 hours
18		0.1 sec to 6 sec	1S		0.6 sec to 30 sec
108		1.3 sec to 60 sec	1M		38 sec to 30 min
1M	0 - 6	7.5 sec to 1 min	1H	0 - 30	38 min to 30 hours
10M		75 sec to 60 min	10H		6.3 hours to
1H		7.5 min to 6 hours	100		300 hours

## **Contact Ratings**

	<u> </u>			
Rated Load		240V AC, 3A (resistive load) 120V AC/ 30V DC, 5A (resistive load)		
Maximum Switching Power		AC: 960VA DC: 120W		
Maximum Switching Voltage		250V AC/150V DC		
Maximum Switching Current		5A		
Maximum	Switching Frequency	600 operations/hour		
Minimum	Applicable Load	5V DC, 10mA (reference value)		
External P	rotection Element	Fuse 250V, 5A		
Life	Electrical	100,000 operations minimum (rated load)		
	Mechanical	20,000,000 operations minimum		

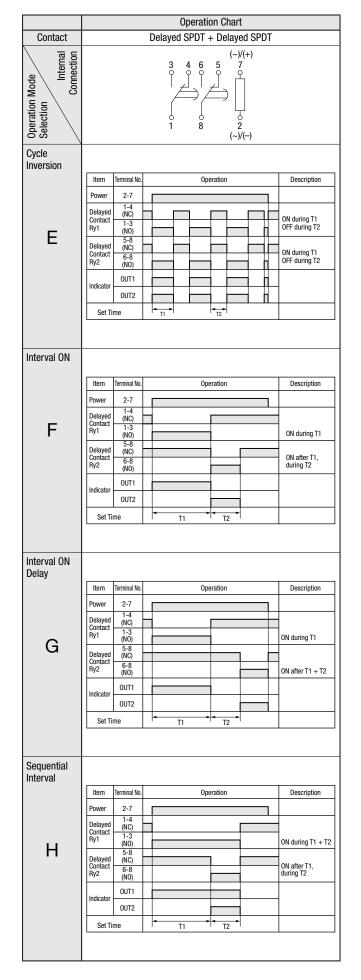
## **General Specifications**

Operation System		Solid-state CMOS circuitry		
Operation		Multi-Mode		
Time Range		0.1 sec to 300 hours		
Pollution Degree		2 (IEC60664-1)		
Overvoltage Catego	ry	III (IEC60664-1)		
Rated Range	AF20	100 to 240V AC (50/60Hz)		
nated natige	AD24	24V AC (50/60Hz)/ 24V DC		
Voltage Range	AF20	85 to 264V AC (50/60Hz)		
voltage riange	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC		
Reset Voltage		Rated voltage × 10% minimum		
Operating Temperat	ure	-10 to +50°C (no freezing)		
Storage Temperatur	е	-30 to +70°C (no freezing)		
Operating Humidity		35 to 85% RH (no condensation)		
Storage Humidity		35 to 85% RH (no condensation)		
Altitude		0 to 2000m (operation) 0 to 3000m (transportation)		
Reset Time		60 ms maximum		
Repeat Error		±0.2%, ±10 ms (Note)		
Voltage Error		±0.2%, ±10 ms (Note)		
Temperature Error		±0.6%, ±10 ms (Note)		
Setting Error		±10%		
Insulation Resistance	e	100 MΩ minimum (500V DC megger)		
Dielectric Strength		Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute		
Vibration Resistance		Damage limits/operating extremes: 10 to 55Hz, amplitude 0.75 mm, 2 hours each in 3 directions		
Shock Resistance		Operating extremes: 98 m/s² Damage limits: 490 v 3 shocks each in 6 directions		
Degree of Protection		IP40 (timer), IP20 (socket) (IEC60529)		
Power Consumption	AF20	2.6VA (100V AC /60Hz), 5.1VA (200V AC /60Hz)		
(approx.)	AD24	1.8VA (AC)/0.9W (DC)		
Dimensions		40H × 36W × 70.0D mm		
Weight (approx.)		73g		
Nata Tha lawaatiiali				

Note: The largest value becomes the error against a preset value depending on the time range.

## **Operation Chart**

	Ullart	0	peration Chart			
Contact			SPDT + Delayed S	SPDT		
Operation Mode Selection Internal Connection	3 4 6 5 7 1 8 2 (~)/(-)					
Sequential Start						
	Item Termi	inal No.	Operation	Description		
		2-7				
	Contact (N	I-4 NC)				
Α	.ty. (N	VO)		ON after T1		
	Contact (N	5-8 NC)				
	Rv2 0	6-8 VO)		ON after T1 + T2		
	Indicator Ol	UT1				
		UT2				
	Set Time	- T1	T2			
Coarse/Fine						
Adjustment	lto	inal No.	Ono	B 1 ***		
		2-7	Operation	Description		
	Doloved 1	-4				
	Rv1 1	-3				
В	y. (N	i-8		ON after T1 + T2		
_	Contact (N	VC)		<del></del>		
	nyz (N	NO)		ON after T1 + T2		
	Indicator	JT1				
		JT2				
	Set Time	T1	7 T2 7			
Instantaneous						
Cycle						
,	Item Term	inal No.	Operation	Description		
	Power 2	2-7				
	Delayed   (N	-4 IC)				
_		-3 IO)		Instantaneous ON		
C	Delayed (N	-8 IC)		OEE during T1		
	Contact 6	-8 IO)		OFF during T1 ON during T2		
	OL	JT1		$\perp$		
	Indicator OL	JT2		77		
	Set Time	T1 T2	T1 T2			
		11 12	11 12			
Cycle						
	Item Term	inal No.	Operation	Description		
		2-7				
_	Contact (N	-4 NC)		OFF during T1		
D	Ry1 (N	-3 NO)		ON during T2		
	Delayed (N	i-8 VC)		OFF during T1		
	Du2 0	-8 IO)		ON during T2		
	Indicator OL	JT1				
	Indicator OL	JT2				
	Set Time	T1 T2	T1 T2	-		
		,		<u> </u>		



## **Applicable Sockets & Hold-Down Springs (Optional)**

### **DIN Rail Mount Socket**

	Item	Part No.	Ordering No.	Applicable Timer	Package Quantity	Remarks
	8-Pin Screw Terminal	SR2P-06B	SR2P-06B	GT3A-1/2/3, GT3F, GT3S, GT3W	1	Hold-down spring: SFA-202 (2 pcs.)
Casket	SR3P-05B	SR3P-05B		1	Hold-down spring: SFA-203 (2 pcs.)	
SUCKEL	Socket 11-Pin Screw Terminal	SR3P-06B	SR3P-06B	GT3A-4/5/6	1	Hold-down spring: SFA-202 (2 pcs.)
		SR3P-05C	SR3P-05C		1	Finger-safe
Hold Down Spring		SFA-202	SFA-202PN20	_	10 sets (20 pcs)	For SR2P-06A/SR3P-06A (2 pcs/set)
ן חטומ-טטו	Hold-Down Spring		SFA-203PN20	_	10 sets (20 pcs)	For SR3P-05A (2 pcs/set)

Note: All are UL recognized, CSA certified, and TÜV approved.

SR2P-06B



SR3P-06B



SFA-202 (2 pcs/set)





**Panel Mount Socket** 

	Item	Part No.	Ordering No.	Applicable Timer	Package Quantity	Remarks
Socket	8-Pin Solder Terminal	SR2P-511	SR2P-511	GT3A-1/2/3, GT3F, GT3S, GT3W	1	<del>_</del>
SUCKEL	11-Pin Solder Terminal	SR3P-511	SR3P-511	GT3A-4/5/6	1	<del>_</del>
Hold-Dov	wn Spring	SFA-402	SFA-402PN10	_	10	For SR2P-511/SR3P-511

Note: SR2P-511 and SR3P-511 are UL recognized and CSA certified.

SR2P-511



SFA-402



### Panel Mount Adapter and wiring Socket Adapter

Package Quantity: 1

Ite	ltem				
DIN 48mm Square Panel Mount Adapter Color: Gray			RTB-G01		
	Color: Beige	RTB-M01			
	Color: Black	RTB-B01			
	8-Pin Solder Terminal		SR6P-S08		
Wiring Socket Adapter	8-Pin Screw Terminal		SR6P-M08G		
	11-Pin Solder Terminal		SR6P-S11		
	11-Pin Scre	w Terminal	SR6P-M11G		

• Finger-safe 11-pin screw wiring socket adapter (Part No.: SR6P-C11) is also available.

(8-pin Wiring Socket Adapter) SR6P-S08



(8-pin Screw Wiring Socket Adapter) SR6P-M08G



(11-pin Wiring Socket Adapter) SR6P-S11

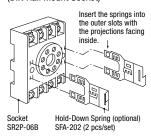


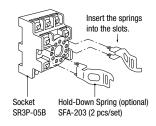
(11-pin Screw Wiring Socket Adapter) SR6P-M11G



### Installation of Hold-Down Springs

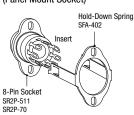
(DIN Rail Mount Socket)





Note: Once installed into the socket, the hold-down springs cannot be removed.

(Panel Mount Socket)

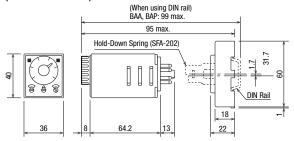


**Dimensions** All dimensions in mm.

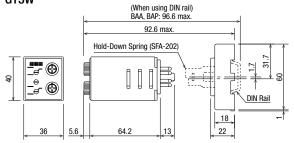
### When Using DIN Rail Mount Socket

GT3A-1, -2, -3/GT3F/GT3S (8-pin)

(SR2P-06B Socket)



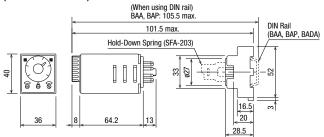
GT3W



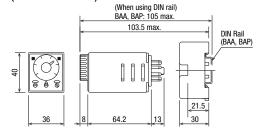
. Calculate the dimensions for mounting, referring to the diagrams of SR2P-06A on Relay Sockets catalog.

### GT3A-4, -5, -6 (11-pin)

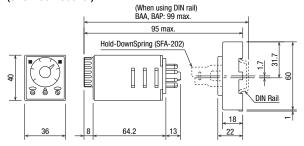
(SR3P-05B Socket)



### (SR3P-05C Socket)

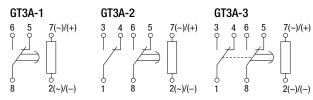


### (SR3P-06B Socket)

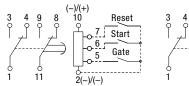


· Calculate the dimensions for mounting, referring to the diagrams in Relay Sockets catalog for SR3P-05A, SR3P-05C, and SR3P-06A.

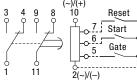
### [Internal Connections]



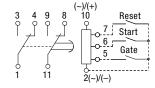
GT3A-4



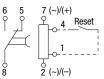
GT3A-5

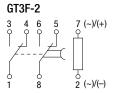


GT3A-6



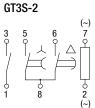
GT3F-1



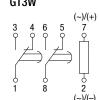


GT3S-1





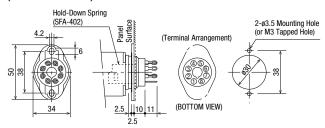
GT3W



### When Using Panel Mount Socket

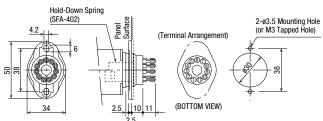
GT3A-1, -2, -3/GT3F/GT3S/GT3W (8-pin)

(SR2P-511 Socket)



GT3A-4, -5, -6

(SR3P-511 Socket)

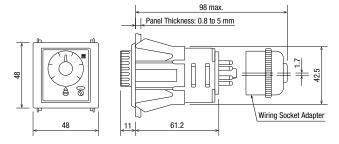


Dimensions All dimensions in mm.

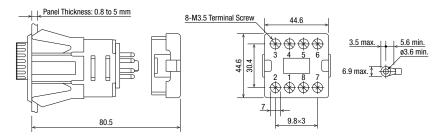
### **All GT3 Series**

### When using DIN 48mm-square Panel Mount Adapter

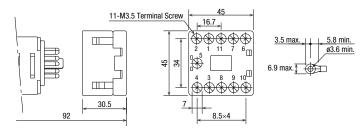
(For 8-pin solder wiring socket adapter: SR6P-S08 and 11-pin solder wiring socket adapter: SR6P-S11)



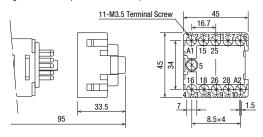
### (8-pin Screw Terminal Wiring Socket Adapter: SR6P-M08G)



### (11-pin Screw Terminal Wiring Socket Adapter: SR6P-M11G)

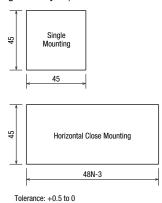


### (Finger-safe 11-pin Screw Terminal Wiring Socket Adapter: SR6P-C11)



Finger-safe structure complies with VDE 0106 T.100.

### (Mounting Hole Layout)



N: No. of timers mounted

### Safety Precautions

- Be sure to turn off power before mounting, removal, wiring, maintenance and inspection. Otherwise, electric shock or fire may occur.
- Be sure to use timers within rated specification values. Otherwise electric shock or fire may occur.
- Be sure to use wires to meet voltage and current requirements and tighten M3.5 terminal screws to a torque of 1.0 to 1.3 N·m. Be sure to solder the terminals correctly. Loose terminal screws or incomplete soldering may cause abnormal heat and fire.

### Instructions

### Mode Setting

### GT3A only

The operation mode can be selected from A, B, C, and D modes using the Operation Mode Selector. The operation mode is changed from A to B, C, and D in turn by turning the Operation Mode Selector clockwise using a flat screwdriver 4 mm wide maximum and the selected mode is displayed in the window. Since this selector does not turn infinitely, turn the selector clockwise when Mode A is displayed and counterclockwise when Mode D is displayed.



### Mode Code and Operation Mode

Part No. MODE Code	GT3A-1, -2, -3	GT3A-4	GT3A-5	GT3A-6
А	ON Delay	ON Delay	Interval ON	One-Shot
В	Interval ON	Cycle	One Shot Cycle	One-Shot ON Delay
С	Cycle	Signal ON/OFF Delay	Signal ON/OFF Delay	One-Shot
D	Cycle ON	Signal OFF Delay	Signal OFF Delay	Signal ON/OFF Delay

### **Time Range Setting**

The time range is calibrated at its maximum time scale, therefore, it is desirable to use the timer at a setting as close to its maximum time scale as possible for accurate time delay. For a more accurate time delay, adjust the setting knob by measuring the operating time before application.

### 1. GT3A (Multi-Mode Analog Setting)

Time range can be selected from 1S, 10S, 10M, and 10H by turning the Time Range Selector with a flat screwdriver 4 mm wide maximum. The four different ranges of 0 to 1, 0 to 3, 0 to 6, and 0 to 18 are displayed in the six windows by turning the Dial Selector, allowing for selecting the best suited scale. Since the selectors do not turn infinitely, turn the selectors clockwise when 1S or 0-1 is displayed and counterclockwise when 10H or 0-18 is displayed.

Time Range Determined by Time Range Selector and Dial Selector

Dial Selector Time Range	0 - 1	0 - 3	0 - 6	0 - 18
18	0.1 sec to	0.1 sec to	0.1 sec to	0.2 sec to
	1 sec	3 sec	6 sec	18 sec
108	0.1 sec to	0.3 sec to	0.6 sec to	1.8 sec to
	10 sec	30 sec	60 sec	180 sec
10M	6 sec to	18 sec to	36 sec to	108 sec to
	10 min	30 min	60 min	180 min
10H	6 min to	18 min to	36 min to	108 min to
	10 hours	30 hours	60 hours	180 hours

The set time is selected by turning the setting knob.

### [Setting Examples]

- When the setting knob is set at 1.5, with dial 0-3 and time range 10S selected, then the set time is 15 sec (1.5  $\times$  10S).
- When the setting knob is set at 0.2, with dial 0-1 and time range 10H selected, then the set time is 2 hours (0.2  $\times$  10H).

### 2. GT3F (OFF Delay)

The time range of GT3F-1 and GT3F-2 can be selected between 1S and 10S with the Time Range Selector by using a flat screw driver. The selected time range (0-1, 0-3, 0-18, or 0-60) is displayed in the six windows of the Setting Knob by turning Dial Selector which allows to set the scale. Note that the switches do not turn infinitely.

Time Range Determined by Time Range Selector and Dial Selector

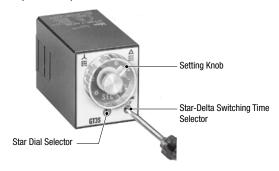
(1) Dial (2) Range	0 – 1	0 – 3	0 – 18	0 - 60
18	0.1 sec to	0.1 sec to	0.2 sec to	0.6 sec to
	1 sec	3 sec	18 sec	60 sec
10S	0.1 sec to	0.3 sec to	1.8 sec to	6 sec to
	10 sec	30 sec	180 sec	600 sec

The set time is selected by turning the Setting Knob. [Setting Examples]

- When the setting knob is set at 2.5, with dial 0-3 and range 1S selected, then the set time is 2.5 sec (2.5  $\times$  1S).
- When the setting knob is set at 15, with dial 0-18 and range 10S selected, then the set time is 150 sec (15 x 10S).

### Instructions

### 3. GT3S (Star-Delta)



The scale range on the star side can be selected from four different ranges of 0 to 5, 0 to 10, 0 to 50, and 0 to 100 displayed in the six windows by turning the Star Dial Selector. Note that the selectors does not turn infinitely.

Time Range Determined by Time Range Selector and Dial Selector

Star [	Dial Selector	Star-Delta Swi	tching Time Selector
Dial	Time Range	Indication	Time
0 – 5	0.05 sec - 5 sec	0.05	0.05 sec
0 – 10	0.1 sec - 10 sec	0.1	0.1 sec
0 – 50	0.3 sec - 50 sec	0.25	0.25 sec
0 – 100	1 sec - 100 sec	0.5	0.5 sec

The Star ON time is selected by turning the Setting Knob. [Setting Examples]

• If the setting knob is set at 8, with Star Dial Selector 0-10 and Star-Delta switching time 0.1S selected, the Star ON time (T<sub>1</sub>) is 8 sec and the Star-Delta switching time (T<sub>2</sub>) is 0.1 sec.

### 4. GT3W [Twin-Timer]



Use a flat screwdriver with a diameter of 4 mm maximum to turn Time Range Selector and gain time range as shown in the table below. Note that the selectors do not turn infinitely.

Time Range Determined by Time Range Selector and Dial Selector

_		-	-		
0.1 s	ec to 6 h	nours	0.1 se	c to 300	hours
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range
18		0.1 sec to 1 sec	18		0.1 sec to 3 sec
108	0 – 1	0.3 sec to 10 sec	1M	0-3	3.8 sec to 3 min
10M		15 sec to 10 min	1H		3.8 min to 3 hours
1\$		0.1 sec to 6 sec	18		0.6 sec to 30 sec
108		1.3 sec to 60 sec	1M		38 sec to 30 min
1M	0-6	7.5 sec to 1 min	1H	0 – 30	38 min to 30 hours
10M		75 sec to 60 min	10H		6.3 hours to
1H		7.5 min to 6 hours	100		300 hours

Note: No blank time range can be set.

### **Selector Setting**

- Use a flat screwdriver with a diameter of 4 mm maximum to turn the selector. Turn the selector until it clicks. Otherwise, malfunction may occur. Also, do not rotate the selector forcibly since the selector does not turn infinitely.
- Since changing the setting during operation may cause malfunction, turn power off before changing the setting.

### **Power**

- Since DC types have a polarity in their power supply connection, connect the power according to wiring diagram.
- Since AC type GT3A, GT3S, and GT3W comprise a capacitive load, the SSR dielectric strength should be two or more times as large as the power voltage when switching the timer power using an SSR.

### Wiring

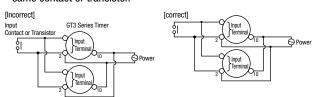
The GT3F, consisting of a high-impedance circuit, may not be reset due to the influence of an inductive voltage or residual voltage caused by a leakage current. In not reset, connect an RC filter or bleeder resistor between power terminals so that the voltage between power terminals can be reduced to less than 15% of the rated voltage.

### Instructions

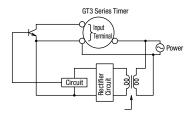
### Inputs of GT3A and GT3F

To avoid electric shock, do not touch the input signal terminal during power voltage application.

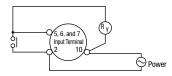
- When connecting the input signal terminals of two or more GT3A timers to the same contact or transistor, the input terminals of the same number should be connected. (Connect Terminals No. 2 in common.)
- Never apply the input signals to two or more GT3F timers using the same contact or transistor.



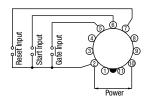
 In a transistor circuit for controlling input signals with its primary and secondary power circuits isolated, do not ground the secondary circuit.



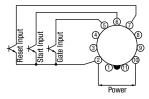
 Do not connect input signal terminals of the GT3A timer to other terminals than No. 2. Never apply voltage to input signal terminals. Otherwise, the internal circuit may be damaged.



- Do not connect input signal terminals of the GT3F timer to other terminals than No. 2. Never apply voltage to input signal terminals.
   Otherwise, the internal circuit may be damaged.
- Input signal lines must be made as short as possible and installed away from power cables and power lines. Shielded wires or a separate conduit should be used for input wiring.
- For contact input, use reliable gold-plated contacts to make sure that the residual voltage is less than 1V when the contacts are closed.



• For transistor input, use transistors with following specifications;  $\mbox{Vce} = 40\mbox{V}, \mbox{Vces} = 1\mbox{V or less}, \mbox{Ic} = 50\mbox{mA or more}, \mbox{IcBo} = 50\mbox{µA or less}.$  The resistance should be less than  $1\mbox{k}\Omega$  when the transistor is on. When the output transistor switches on, a signal is inputted to the timer.



#### GT3A

Transistor output equipment such as proximity switches and photoelectric switches can input signals if they are voltage/current output type, power voltage ranges from 18 to 30V, and residual voltage is 1V. When the signal voltage switches from H to L, a signal is inputted to the timer.



### GT3F

Do not input signals using transistor output equipment of a voltage/ current output type. Otherwise, the internal circuit may be damaged.

### **Minimum Power Application Time**

If the power application time to the GT3F is shorter than the minimum power application time, the output relay may not operate or the timer may operate faster than the preset time.

### **Time Range Setting**

Repeat error is calibrated at its maximum time scale, therefore, it is desirable to use the timer at a setting as close to its maximum time scale as possible for accurate time delay. For a more accurate time delay, adjust the setting knob by measuring the operating time before application.

### **Time Accuracy**

### Repeat Error

This indicates variance of operation time when operation is repeated under the same conditions. The variance is calculated from the following formula and the measurements should be done 5 times at least

$$= \pm \frac{1}{2} \times \frac{\text{Max. measured value} - \text{Min. measured value}}{\text{Maximum scale value}} \times 100 \text{ (%)}$$

### Voltage Error

This indicates the variance of operation time when the voltage at operation current varies within allowable voltage variance.

$$= \pm \frac{Tv - Tr}{Tr} \times 100 (\%)$$

Tv: Average of measured operation time values at voltage V

Tr: Average of measured operation time values at the raged voltage

### **Temperature Error**

This indicates the influence caused by the change in temperature during operation within operating temperature. This is shown with the variance of operation time.

$$= \pm \frac{Tv - Tr}{Tr} \times 100 (\%)$$

Tv: Average of measured operation time values at voltage V

Tr: Average of measured operation time values at the raged voltage

### **Setting Error**

This indicates the deviation, range, and gap between actual operation time and that on scale.

= 
$$\pm \frac{\text{Average of measured values - Set value}}{\text{Maximum scale value}} \times 100 (\%)$$

Ex.)

GT3 setting error: ±10%

When the maximum scale value is 10 sec. and setting time is 1 to 3 sec., the setting error ia  $\pm 1$  sec. and operating time is 1 to 3 sec. When setting a value near the lower limit, be sure to confirm the actual operating time.

### Instructions

### **Load Current**

The rated current of the contact (or control output) should not be exceeded. Especially for inductive, capacitive, and incandescent lamp loads, the inrush current as large as a few to several tens times the rated current may cause welded contacts and other troubles. The amount of inrush current as well as steady-state current must be taken into consideration.

### **Contact Protection**

Switching an inductive load generates a counter-electromotive force in the coil. The counter emf will cause arcing, which may shorten the contact life. Application of a protection circuit is recommended for contact protection.

### **Rest Time**

When turning power off after time-out or during operation, allow a rest time longer than the reset time to restart. (Each model has a different reset time.)

### **Continuous Energizing**

Continuous energizing for a long period of time may damage the electrical characteristics of the timer because of internal heating. Use an additional relay to the output circuit and refrain from continuous energizing of the timer.

### **Dielectric Strength Test**

When performing an insulation resistance or dielectric-strength test on control panels containing timers, make sure that the dielectric strength of the timer is not exceeded. In case the dielectric strength is exceeded, remove the timers from the panels.

### **Operating Environment**

### **Temperature and Humidity**

Use the timer within the operating temperature and operating humidity ranges and prevent freezing and condensation. After storing below the operation temperature, leave the timer at room temperature for a sufficient period of time before use.

### **Environment**

Prevent a corrosive gas such as sulfurous or ammonia gas, organic solvents (alcohol, benzine, thinner, etc.), strong alkaline substances or strong acids from touching to the timer, and do not use the timer in such an environment. Keep the timer from water splashes or steam.

### Vibration and Shock

Since excessive vibrations or shocks cause the output contacts to open, the timer should be used within the operating extremes of vibration and shock resistance. Use of hold-down springs is recommended for secure mounting on sockets.

### **Noise and Static Charge**

Check the operation of the timer before using in an environment with a lot of noise. Install the input signal source, input signal wiring and timer away from noise source and high-voltage wire with noise as much as possible. Also, in case of using the timer under the environment with multiple static charge (pipe transportation of molding material, power/liquid material, etc.), place the timer away from such static charge source as well.

### **Others**

- The GT3F does not read the preset values of each selector after power is turned off. Note that minimizing the preset time does not shorten the delay time after power is turned off.
- To make a sequence circuit by connecting timers and relays, check the timer operation sufficiently in consideration of the reset time of the timer.
- Storage temperature should range from -30°C to +70°C. If the product has been stored at a temperature below -10°C, leave the product at room temperatures for more than 3 hours before using.
- Do not remove the housing.
- In the GT3 timers, latching relay is used for output relay. Shocks such as dropping during transportation or handling may cause the output to be different from the initial value. Be sure to check the output status using a tester.

## **GT5Y** Series Miniature Electronic Timers

## Four Selectable Operation Modes. Six Selectable Time Ranges. Delayed Output 4PDT/3A or DPDT/5A.

- Four operation modes: ON Delay, Interval ON, Cycle OFF, and Cycle ON
- Repeat error: ±0.2% ±20 ms maximum
- Miniature size
- LED indicators for output and power
- Complies with safety standards. UL/c-UL listed. EN compliant.

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	CERTIFIED SARTIVES ESSESS	UL/c-UL Listed File No. E55996
EN61812-1	(€	EU Low Voltage Directive

Note: When using as a UL Listing approved product, use IDEC timer sockets under the below conditions.

 $\mbox{SY4S-05*, SM2S-05*}$  (Specify A, B, C, DF, DN, or U in place of \* )

- Wire conductor temperature rating: 60°C min.
- Copper wire only: AWG14 max. (2mm<sup>2</sup> max.), AWG14 max. (0.9mm<sup>2</sup> max.)
- Tightening torque: 0.6 to 1.0N·m

### SU4S-11L, SU2S-11L

- Wire conductor temperature rating: 60°C min.
- Copper wire only: AWG16 max. (solid wire 1.5mm² max., stranded wire 1.25mm² max.), AWG18 max. (0.9mm² max.)



### Package Quantity: 1

(1) Operation Mode	Contact	Output	Time Ranges	Operating Voltage	Part No. (Ordering No.)
			0.1S to 10H		GT5Y-2SN1A100
			0.1S to 30H	100 to 120V AC	GT5Y-2SN3A100
			0.1S to 60H		GT5Y-2SN6A100
			0.1S to 10H	200 to 240V AC	GT5Y-2SN1A200
		220V AC/	0.1S to 30H	200 to 240V AC	GT5Y-2SN3A200
	DPDT	30V DC, 5A	0.1S to 10H		GT5Y-2SN1D12
A: ON Delay		30V DC, 3A	0.1S to 30H	12V DC	GT5Y-2SN3D12
			0.1S to 60H		GT5Y-2SN6D12
D. Intonnal ON			0.1S to 10H		GT5Y-2SN1D24
B: Interval ON			0.1S to 30H	24V DC	GT5Y-2SN3D24
			0.1S to 60H		GT5Y-2SN6D24
C: Cycle OFF			0.1S to 10H		GT5Y-4SN1A100
o. Oyolo oi i			0.1S to 30H	100 to 120V AC	GT5Y-4SN3A100
			0.1S to 60H		GT5Y-4SN6A100
D: Cycle ON			0.1S to 10H		GT5Y-4SN1A200
	4PDT	30V DC, 3A	0.1S to 30H	200 to 240V AC	GT5Y-4SN3A200
	4501	30V DC, 3A	0.1S to 60H		GT5Y-4SN6A200
			0.1S to 30H	12V DC	GT5Y-4SN3D12
			0.1S to 10H		GT5Y-4SN1D24
			0.1S to 30H	24V DC	GT5Y-4SN3D24
			0.1S to 60H		GT5Y-4SN6D24

### **Time Ranges**

Code	Scale	(2) Time Range Indication	Time Range
		18	0.1 sec to 1 sec
		10S	0.2 sec to 10 sec
1: 0.1S to 10H	0 to 1	1M	1 sec to 1 min
1.0.13 10 1011	0 10 1	10M	10 sec to 10 min
		1H	1 min to 1 hr
		10H	10 min to 10 hr
	0 to 3	18	0.1 sec to 3 sec
		10S	0.5 sec to 30 sec
3: 0.1S to 30H		1M	3 sec to 3 min
3. 0. 13 10 3011		10M	30 sec to 30 min
		1H	3 min to 3 hr
		10H	30 min to 30 hr
		18	0.1 sec to 6 sec
		10S	1 sec to 60 sec
6: 0.1S to 60H	0 to 6	1M	6 sec to 6 min
0.0.13 10 0011	0.00	10M	1 min to 60 min
		1H	6 min to 6 hr
		10H	60 min to 60 hr

Note: S and M of the time range indicate second, and minute respectively.

### **Contact Ratings**

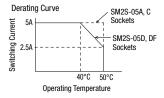
oomaot mat	90		
Part No.		GT5Y-4	GT5Y-2
Contact Configura	ation	4PDT	DPDT
Rated Load	Resistive Load	220V AC, 3A/30V DC, 3A	220V AC, 5A/30V DC, 5A
Rateu Loau	Inductive Load cosø=0.3, L/R=7ms	220V AC, 0.8A/30V DC, 1.5A	220V AC, 2A/30V DC, 2.5A
Maximum Switch	ing Voltage	250V AC/125V DC	250V AC/125V DC
Maximum Switch	ning Current	3A	5A (Note)
Maximum Switch	ing Frequency	1800 operations/hour	1800 operations/hour
Allowable	Resistive Load	AC: 660VA/DC: 90W	AC: 1100VA/DC: 150W
Contact Power	Inductive Load cosø= 0.3, L/R=7ms	AC: 176VA/DC: 45W	AC: 440VA/DC: 75W
Minimum Applies	shla Load	5V DC, 10mA (reference value)	5V DC, 20mA (reference value)
Minimum Applica	wie Load	24V DC, 5mA (reference value)	24V DC, 10mA (reference value)
External Protection	on Element	Fuse 250V 3A	Fuse 250V 5A
Lifo	Electrical	200,000 operations minimum (220V AC, 3A)	500,000 operations minimum (220V AC, 5A)
Life	Mechanical	50 million operations minimum	50 million operations minimum

Note: See Operating Temperature - Maximum Switching Current Characteristics.

### **Operating Temperature - Maximum Switching Current Characteristics**

Check the derating curve described below when mounting more than two GT5Y-2 timers and SM2S-05\* sockets.



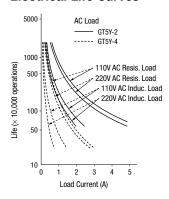


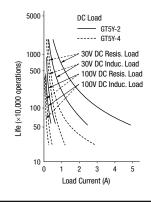
### **General Specifications**

Model		GT5Y-□SN		
Operation		ON Delay / Interval ON / Cycle OFF / Cycle ON		
<u> </u>		2 (IEC60664-1)		
Pollution Degre		,		
Overvoltage Ca		III (IEC60664-1)		
Rated	A200	200 to 240V AC (50/60Hz)		
Operational	A100	100 to 120V AC (50/60Hz)		
Voltage	D24	24V DC		
	D12	12V DC		
	A200	170 to 264V AC (50/60Hz)		
Voltage	A100	85 to 132V AC (50/60Hz)		
Range	D24	21.6 to 26.4V DC		
	D12	10.8 to 13.2V DC		
Reset Voltage		Rated Voltage × 20% minimum		
Operating Temp	erature	-10 to +50°C (no freezing and condensation)		
Storage/Transport	ortation	-30 to +80°C (no freezing and condensation)		
Operating Hum	idity	35 to 85% RH (no condensation)		
Storage Humid	ity	35 to 85% RH (no condensation)		
Altitude		0 to 2000m (operation), 0 to 3000m (transportation)		
Reset Time		100 ms maximum		
Repeat Error		Within ±0.2%, ±20 ms		
Voltage Error		Within ±0.5%, ±20 ms		
Temperature E	rror	±3%		
Setting Error		±10%		
Insulation Resi	stance	100 MΩ minimum (500V DC megger)		
Dielectric Strer		Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 1000V AC, 1 minute		
Vibration Resis	tance	Operating extremes: 10 to 55 Hz, amplitude 0.5 mm, 10 minutes each in 3 directions Damage limits: 10 to 55 Hz, amplitude 0.75 mm, 2 hours each in 3 directions		
Shock Resistance		Operating extremes: 98 m/s², Damage limits: 490 m/s², 3 shocks each in 6 directions		
Degree of Protection		IP40 (timer), IP20 (socket) (IEC60529)		
A200		1.2 VA (200V AC/60Hz), 1.2 VA (200V AC/50Hz)		
Power	A100	1.1 VA (100V AC/60Hz), 1.2 VA (100V AC/50Hz)		
Consumption (approx.)	D24	1.0W		
(αμμιυλ.)	D12	0.9W		
Dimensions		27.7H × 21.0W × 58.3D mm		
Weight (approx	(.)	42g		
g (approx	-,	ı ·=ə		

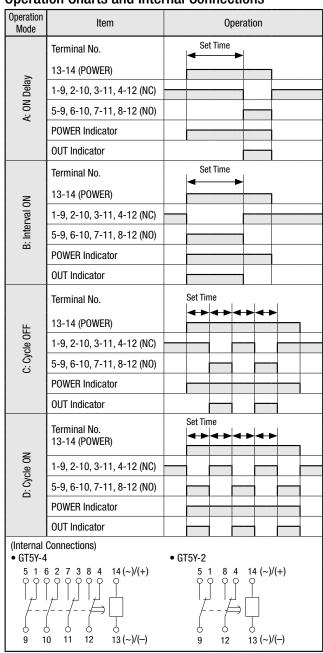
 $\label{lem:note:See Operating Temperature - Maximum Switching Current Characteristics.$ 

### **Electrical Life Curves**





## **Operation Charts and Internal Connections**

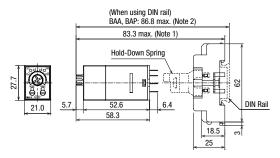


Dimensions All dimensions in mm.

### (When using DIN Rail Mount Socket)

### GT5Y-4

See Relay Sockets catalog for SY4S-05B, SY4S-05C, SY4S-05D, SY4S-05DF.

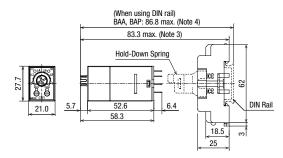


Note 1: SY4S-05B: 83.3 max., SY4S-05C: 83.3 max., SY4S-05D: 88.3 max., SY4S-05DF: 88.3 max.

Note 2: SY4S-05B: 86.8 max., SY4S-05C: 86.8 max., SY4S-05D: 91.8 max., SY4S-05DF: 91.8 max.

### GT5Y-2

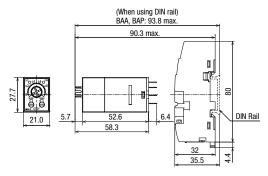
See Relay Sockets catalog for SM2S-05B, SM2S-05C, SM2S-05D, SM2S-05DF.



Note 3: SM2S-05B: 83.3 max., SM2S-05C: 83.3 max., SM2S-05D: 88.3 max., SM2S-05DF: 88.3 max.

Note 4: SM2S-05B: 86.8 max., SM2S-05C: 86.8 max., SM2S-05D: 91.8 max., SY4S-05DF: 91.8 max.

### GT5Y-4 and SU4S-11L, GT5Y-2 and SU2S-11L



Applicable hold-down spring: SFA-202

### Accessories

### **Accessories**

Both SY4S-05B, SY4S-05C, SY2S-05B, SM2S-05B, and SM2S-05C are UL recognized, CSA certified, and TÜV approved. Others are UL recognized and CSA certified, except for SY4S-05A and SM2S-05A.

When ordering, specify the Ordering No.

	Item	Part No.	Ordering No.	Package Quantity	Remarks
		SY4S-05B	SY4S-05A	1	For 4PDT contact (Screw)
		SY4S-05C	SY4S-05C	1	For 4PDT contact (Screw)
		SY4S-05DF	SY4S-05DF	1	For 4PDT contact (Screw)
	Contrat	SU2S-21L	SU2S-21L	1	For DPDT contact (Push-in)
	Socket	SU4S-21L	SU4S-21L	1	For 4PDT contact (Push-in)
DIN Rail		SM2S-05B	SM2S-05A	1	For DPDT contact (Screw)
Mount Socket		SM2S-05C	SM2S-05C	1	For DPDT contact (Screw)
		SM2S-05DF	SM2S-05DF	1	For DPDT contact (Screw)
		SFA-202	SFA-202PN20	10 sets (20 pcs)	For SY4S-05A, SM2S-05A (2 pcs/set)
	Hold-Down Spring	SFA-511	SFA-511PN20	20	For SY4S-05D, SY4S-05DF, SM2S-05D, SM2S-05DF
		SU9Z-S21T	SU9Z-S21T	10	For SU2S-21L, SU4S-21L
		SY4S-51	SY4S-51	1	For 4DPT contact, Solder Terminal
	Socket	SY4S-61	SY4S-61	1	For 4DPT contact, PC Board Terminal
Panel/PC Board Mount Socket	SUCKEL	SM2S-51	SM2S-51	1	For DPDT contact, Solder Terminal
		SM2S-61	SM2S-61	1	For DPDT contact, PC Board Terminal
	Hold-Down Spring	SFA-302	SFA-302PN20	10 sets (20 pcs)	For SY4S-51, SY4S-61, SM2S-51, SM2S-61 (2 pcs/set)

## **GT5P** Series Miniature Electronic Timers

# Economic Efficiency Focused Delayed Output SPDT/5A

- Three operation modes: ON Delay, Cycle, and One Shot
- Repeat error: ±0.2% ±10 ms maximum
- Complies with safety standards UL recognized, CSA certified, TÜV approved, EN compliant

Applicable Standards	Mark	File No. or Organization
UL508	71	UL/c-UL recognized File No. E55996
CSA C22.2 No.14	<b>(1)</b>	CSA File No. LR66809
EN61812-1	( (	EU Low Voltage Directive



### Package Quantity: 1

Operation Mode	Contact				
	Contact	Output	Time Range	Operating Voltage	Part No. (Ordering No.)
			3S	100 to 120V AC	GT5P-N3SA100
			10S		GT5P-N10SA100
			30S		GT5P-N30SA100
			60S		GT5P-N60SA100
			3M		GT5P-N3MA100
			6M		GT5P-N6MA100
			10M		GT5P-N10MA100
			18		GT5P-N1SA200
			6S		GT5P-N6SA200
			10S		GT5P-N10SA200
			30S	0001 0401/40	GT5P-N30SA200
		24V DC/	60S	200 to 240V AC	GT5P-N60SA200
ON Delay	SPDT	120V AC, 5A	3M		GT5P-N3MA200
		240V AC, 3A	6M		GT5P-N6MA200
			10M		GT5P-N10MA200
			1S		GT5P-N1SAD24
		6S		GT5P-N6SAD24	
			10S	24V AC/DC	GT5P-N10SAD24
			60S		GT5P-N60SAD24
			6M		GT5P-N6MAD24
			10M		GT5P-N10MAD24
			10S		GT5P-N10SD12
			30S	12V DC	GT5P-N30SD12
			60S		GT5P-N60SD12
			10M		GT5P-N10MD12
			3S		GT5P-F3SA100
			10S	100 to 120V AC	GT5P-F10SA100
			3S		GT5P-F3SA200
		24V DC/	10S	200 to 240V AC	GT5P-F10SA200
Cycle	SPDT	120V AC, 5A 240V AC, 3A	3S		GT5P-F3SAD24
		240V AG, SA	10S	24V AC/DC	GT5P-F10SAD24
			3\$	101100	GT5P-F3SD12
			108	12V DC	GT5P-F10SD12
			3\$	100 to 120V AC	GT5P-P3SA100
		24V DC/ 120V AC, 5A 240V AC, 3A	3S	200 to 240V AC	GT5P-P3SA200
One Shot	SPDT		10S		GT5P-P10SA200
One Shot	0101		3\$	24V AC/DC	GT5P-P3SAD24
			10S		GT5P-P10SAD24

Note: S and M of time range indicate second and minute respectively.

### **Time Ranges**

Code	Time Range
1S	0.1 sec to 1 sec
3S	0.1 sec to 3 sec
6S	0.1 sec to 6 sec
10S	0.2 sec to 10 sec
30S	0.5 sec to 30 sec
60S	1 sec to 60 sec
3M	3 sec to 3 min
6M	6 sec to 6 min
10M	10 sec to 10 min

## **Contact Ratings**

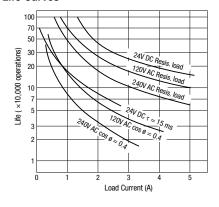
Cor	ntact Configuration	SPDT		
	ximum Switching tage	250V AC, 150V DC		
	ximum Switching rent	5A		
Ma Pov	ximum Switching ver	AC: 960VA DC: 120W		
oad.	Resistive Load	120V AC / 24V DC, 5A 240V AC, 3A		
Rated Load	Inductive Load cosø = 0.4 L/R = 15 ms	240V AC, 0.8A 120V AC, 1.4A 24V DC, 1.7A		
Life	Electrical	100,000 operations minimum (rated resistive load)		
	Mechanical	20,000,000 operations minimum		

Minimum Applicable Load: 5V DC 10 mA (reference value)

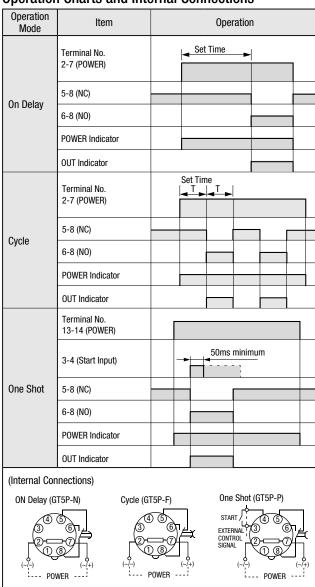
### **General Specifications**

Model		GT5P-N	GT5P-F	GT5P-P
Operation		ON Delay Cycle One Shot		
Pollution Deg	ree	2 (IEC60664-1)		
	A200	200 to 240V AC	(50/60Hz)	
Rated Operational	A100	100 to 120V AC (50/60Hz)		
Voltage	AD24	24V AC (50Hz/6	60Hz)/24V DC	
Tollago	D12	12V DC		
	A200	170 to 264V AC	(50/60Hz)	
Voltage	A100	85 to 132V AC	(50/60Hz)	
Range	AD24	20.4 to 26.4V A	C (50/60Hz)/21.6	6 to 26.4V DC
	D12	10.8 to 13.2V D	C	
Operating Tem	perature	-10 to +50°C (	no freezing)	
Storage Temp	erature	-30 to +70°C (	no freezing)	
Operating Hu	midity	35 to 85% RH (no condensation)		
Storage Hum	idity	30 to 85% RH (no condensation)		
Altitude	e 0 to 2000m (operation), 0 to 3000m (transportation)			00m (transportation)
Reset Time		100 ms maximum		
Repeat Error		±0.2%, ±10 m	S	
Voltage Error		±0.5%, ±20 m	S	
Temperature	Error	±3%		
Setting Error		±10%		
Insulation Res	istance	100 MΩ minim	um (500V DC me	gger)
Dielectric Str	ength	Between contac	ts of different pole	nals: 2000V AC, 1 minute es: 2000V AC, 1 minute le: 750V AC, 1 minute
Vibration Res	istance	Operating extremes: 10 to 55Hz, amplitude 0.75 mm,		
Shock Resistance		Operating extremes: 98 m/s², Damage limits: 490 m/s²		
	A200	5.0 VA (60Hz)		5.0 VA (60Hz)
Power Consumption	A100	2.9 VA (60Hz)		2.9 VA (60Hz)
(approx.)	AD24	1.4 VA (60Hz)/0	.5W	1.4 VA (60Hz)/0.5W
(αρριολ.)	D12	0.6W		0.6W
Dimensions	Dimensions $36H \times 29W \times 81.5D \text{ mm}$			
Weight (approx.) 54g				

### **Electrical Life Curves**



## **Operation Charts and Internal Connections**

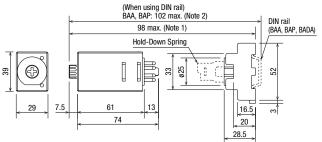


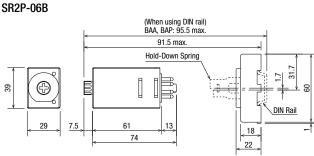
**Dimensions** All dimensions in mm.

### (When using DIN Rail Mount Socket)

### SR2P-05B

For SR2P-05C, see Relay Sockets catalog.

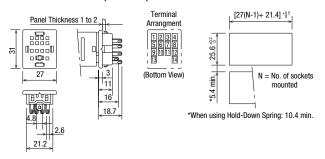




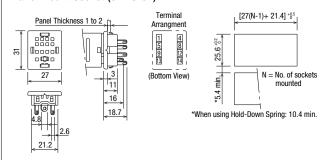
Note 1: SR2P-05C: 99.5 max. Note 2: SR2P-05C: 103.5 max.

### Mounting Hole Layout (for Panel/PC Board Mount Socket)

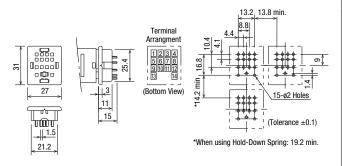
### Panel Mount Socket (SY4S-51)



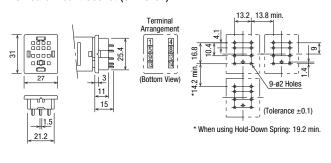
### Panel Mount Socket (SM2S-51)



### PC Board Mount Socket (SY4S-61)

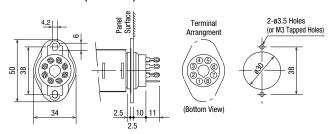


### PC Board Mount Socket (SM2S-61)

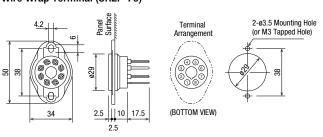


### 3. GT5P

### Solder Terminal (SR2P-511)



### Wire Wrap Terminal (SR2P-70)

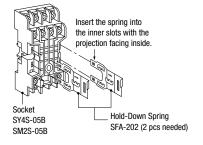


### **Accessories**

Ite	em	Part No.	Ordering No.	Package Quantity	Remarks
		SR2P-06B	SR2P-06B	1	
	Socket	SR2P-05B	SR2P-05B	1	
DIN Rail Mount Socket		SR2P-05C	SR2P-05C	1	UL/CSA/TÜV
	Hold Down Caring	SFA-202	SFA-202PN20	10 sets (20 pcs)	For SR2P-06A (2 pcs/set)
	Hold-Down Spring	SFA-203	SFA-203PN20	10 sets (20 pcs)	For SR2P-05A (2 pcs/set)
Panel Mount Socket	w/Solder Terminals	SR2P-511	SR2P-511	1	UL/CSA
ranei Mount Socket	w/Wire Wrap Terminals	SR2P-70	SR2P-70	1	

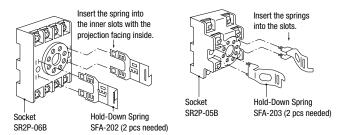
### **Installation of Hold-Down Springs**

### **DIN Rail Mount Socket**



### Recommended Tightening Torque and Terminal Screw

Timer	Applicable Socket	Terminal Screw	Recommended Tightening Torque
GT5Y	SY4S-05 SM2S-05	M3	0.6 to 1.0 N·m



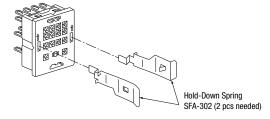
Note 1: Once installed into sockets, the hold-down springs cannot be removed. Note 2: Hold-down springs cannt be used on SR2P-511 for GT5P.

### Recommended Tightening Torque and Terminal Screw

Timer	Applicable Socket	Terminal Screw	Recommended Tightening Torque
GT5P	SR2P-05 SR2P-06	M3.5	1.0 to 1.3 N·m

### Panel/PC Board Mount Socket

The SFA-302 Hold-Down Springs can be installed to the SY4S-51, SY4S-61, SM2S-51, and SM2S-61 sockets.

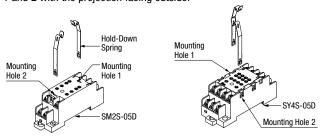


Hold-down springs cannot be installed to SR2P-511 and SR2P-70 panel mount sockets.

### Installation/Removal of Hold-Down Springs

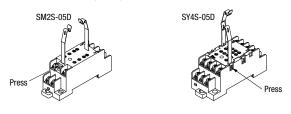
(Installation)

Insert the hold-down springs (SFA-511) into mounting holes 1 and 2 with the projection facing outside.



#### (Removal

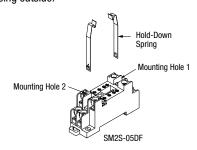
Press the projections of Hold-Down Springs (SFA-511) in the direction shown in the arrow and pull upward to remove.



### Installation/Removal of Hold-Down Springs

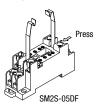
(Installation)

Insert the springs (SFA-511) into mounting holes 1 and 2 with the projection facing outside.



### (Removal)

Press the projections of Hold-Down Springs (SFA-511) in the direction shown in the arrow and pull upward to remove.



Note: Apply the same method to SY4S-05DF.

## Safety Precautions

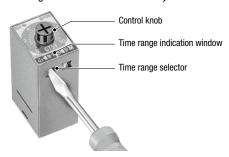
- Be sure to turn off power before mounting, removal, wiring, maintenance and inspection. Otherwise, electric shock or fire could occur.
- Be sure to use timers within rated specification values. Otherwise, electric shock or fire may occur.
- Be sure to use wires to meet voltage and current requirements and tighten M3.5 terminal screws to a tightening torque of 1.0 to 1.3 N·m.
   Be sure to solder the terminals correctly. Loose terminal screws or incomplete soldering may cause abnormal heat and fire.

### Instructions

### **Time Range Setting**

The time range is calibrated at its maximum time scale, therefore it is desirable to use the timer at a setting as close to its maximum time scale as possible for accurate time delay. For a more accurate time delay, adjust the control knob by measuring the operating time with a watch before application.

On the GT5Y timers, a desired time range can be selected using the time range selectors on the side surface. Turn the multiplier and time unit selectors using a flat screwdriver until they click.



### **Timing Accuracy**

Timing accuracies are calculated from the following formulas:

### Repeat Error

$$= \pm \frac{1}{2} \times \frac{\text{Max. measured value}}{\text{Maximum scale value}} \times 100 \text{ (%)}$$

### Voltage Error

$$=\pm \frac{Tv-Tr}{Tr} \times 100 \, (\%) \qquad \begin{array}{l} \text{Tv: Average of measured values at voltage V} \\ \text{Tr: Average of measured values at the raged voltage} \end{array}$$

### Temperature Error

$$=\pm \ \frac{Tt-T_{20}}{T_{20}} \times 100 \ (\%) \qquad \begin{array}{l} \mbox{Tt: Average of measured values at $t^{\circ}$C} \\ \mbox{$T_{20}$: Average of measured values at $20^{\circ}$C} \end{array}$$

### Setting Error

### **Use of External Input (GT5P-P Only)**

- 1. Do not apply voltage to external input terminals 3 and 4. Be sure not to connect external inputs to other terminals because the internal circuit may be damaged.
- 2. Use reliable mechanical contacts capable of switching approximately 22V DC, 1 mA to close input terminals 3 and 4. (Closed: 1 k $\Omega$  maximum, Open: 100 k $\Omega$  minimum) The input terminals should not be connected to a ground wire of other devices.
- Do not install input lines in parallel with high-voltage or motor lines. Use shielded wires or separate conduit for input lines, and make the input lines as short as possible.

### **Load Current**

The rated current of the contact (or control output) should not be exceeded. Especially for inductive, capacitive, and incandescent lamp loads, the inrush current as large as a few to several tens times the rated current may cause welded contacts and other troubles. The amount of inrush current as well as steady-state current must be taken into consideration.

### **Contact Protection**

Switching an inductive load generates a counter-electromotive force in the coil. The counter emf will cause arcing, which may shorten the contact life. Application of a protection circuit is recommended for contact protection.

### **Rest Time**

When turning power off after time-out, allow a rest time of 0.1 sec, and during operation, 1 sec at least.

### **Power**

Since DC types are designed to operate on DC power containing 10% or less ripple, insert a smoothing circuit when using a rectified AC power to operate DC type timers.

### **Continuous Energizing**

Continuous energizing for a long period of time may damage the electrical characteristics of the timer because of internal heating. Use an additional relay to the output circuit and refrain from continuous energizing of the timer.

### **Dielectric Strength Test**

When performing an insulation resistance or dielectric strength test on control panels containing timers, make sure that the dielectric strength of the timer is not exceeded. In case the dielectric strength is exceeded, remove the timers from the panels.

### **Operating Environment**

### **Temperature and Humidity**

Use the timer within the operating temperature and operating humidity ranges and prevent freezing and condensation. After storing below the operation temperature, leave the timer at room temperature for a sufficient period of time before use.

#### . Environment

Prevent a corrosive gas such as sulfurous or ammonia gas, organic solvents (alcohol, benzine, thinner, etc.), strong alkaline substances or strong acids from touching to the timer, and do not use the timer in such an environment. Keep the timer from water splashes or steam.

### Vibration and Shock

Since excessive vibrations or shocks cause the output contacts to open, the timer should be used within the operating extremes of vibration and shock resistance. Use of hold-down springs is recommended for secure mounting on sockets.

### **Others**

- Use a mechanical-contact switch or relay to supply power to the time.
- When driving the timer using a solid-state output device such as two-wire proximity switch, photoelectric switch or solid-state relay directly, malfunction may be caused by a leakage current from the solid-state device. Be sure to check thoroughly before using.
- Since AC types (such as A100 and A200) comprise a capacitive load, the SSR dielectric strength should be two or more times as large as the power voltage when switching the timer power using an SSR.
- To make a sequence circuit by connecting timer and relay, check the timer operation sufficiently in consideration of the reset time of the timer.

# **GE1A** Series **Electronic Timers**

# Two different time ranges to cover a wide time range

- Large clear knob for easy time range setting
- ON Delay function
- Highly precise time control
- Instant monitoring of operation status by LED indicators.

Applicable Standards	Mark	File No. or Organization	
UL508 CSA C22.2 No. 14	CULUS	UL/c-UL Listed File No. E204716	
EN61812-1	(€	EU Low Voltage Directive	
LINOTOTZ-T		TÜV Product Service	



### **Contact Ratings**

Contact Ratings	240V AC/5A, 24V DC/5A (resistive load)
Electrical Life	100,000 operations minimum (resistive load)
Mechanical Life	GE1A-B: 10,00,000 operations minimum GE1A-C: 5,000,000 operations minimum

### 10H





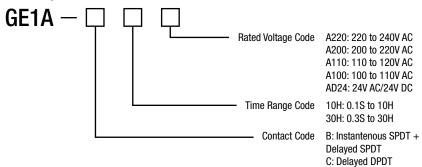


### **Time Ranges**

Time Range Code	Magnification	Time Range
	10H Magnification  18 10S 10S 1M 10M 10M 1H 10H 10S 10S 10H 10H 11S 10S 10S 1M 10M 11H 10H 10H 10H 10H	0.1 sec. to 1 sec.
		1 sec. to 10 sec.
104	1M	0.1 min. to 1 min.
1011	10M	1 min. to 10 min.
	1H	0.1 hour to 1 hour
	10M 1H 10H 1S 10S	1 hour to 10 hours
	18	0.3 sec. to 3 sec.
	10S	3 sec. to 30 sec.
20H	1M	0.3 min. to 3 min.
ЗИП	10M	3 min. to 30 min.
	1H	0.3 hour to 3 hour
	10H	3 hour to 30 hours

		Part No.		
Time Range	Rated Voltage	Contact		
		Delayed SPDT + Instantaneous SPDT	Delayed DPDT	
	220 to 240V AC	GE1A-B10HA220	GE1A-C10HA220	
4011	200 to 220V AC	GE1A-B10HA200	GE1A-C10HA200	
10H (0.1 sec. to 10 hours)	110 to 120V AC	GE1A-B10HA110	GE1A-C10HA110	
(0.1 300. to 10 110013)	100 to 110V AC	GE1A-B10HA100	GE1A-C10HA100	
	24V AC/DC	GE1A-B10HAD24	GE1A-C10HAD24	
	220 to 240V AC	GE1A-B30HA220	GE1A-C30HA220	
0011	200 to 220V AC	GE1A-B30HA200	GE1A-C30HA200	
30H (0.3 sec. to 30 hours)	110 to 120V AC	GE1A-B30HA110	GE1A-C30HA110	
	100 to 110V AC	GE1A-B30HA100	GE1A-C30HA100	
	24V AC/DC	GE1A-B30HAD24	GE1A-C30HAD24	

## Part No. Development



## **Specifications**

Model		GE1A-B	GE1A-C		
Operation Mode		ON Delay			
Time Range		0.1 second to 30 hours			
Rated Operational Vo	Itage	220V to 240V AC, 200 to 220V AC, 110V to 120V AC, 100 to 110V AC, 24V AC/DC			
Voltage Tolerance		AC: 85 to 110%, DC: 90 to 110%			
Operating Temperature		-10 to +55°C (without freezing)			
Storage Temperature		-30 to +70°C (without freezing)			
Operating Humidity		35 to 85% RH (without condensation)			
Repeat Error		±0.2% ±10 ms maximum	±0.2% ±10 ms maximum		
Voltage Error		±0.5% ±10 ms maximum			
Temperature Error		±3% maximum			
Setting Error		±10% maximum			
Insulation Resistance		100 MΩ minimum (500V DC megger)			
	Between power and output terminals	2,000V AC, 1 minute			
Dielectric Strength	Between contact circuits	750V AC, 1 minute			
	Between contact circuits (opposite pole)	2,000V AC, 1 minute			
Vibration Resistance		Damage limits: Amplitude 0.75 mm, 10 to 55 Hz			
VIDI ALIOH HESISTANGE		Operating extremes: Amplitude 0.5 mm, 10 to 55 Hz			
Observation Descriptions	Damage limits	Panel mount: 490 m/s² (approx. 50G) Surface mount: 249 m/s² (approx. 25G)			
Shock Resistance	Operating extremes	98 m/s² (approx. 10G)			
	220V AC	7.7 VA (60 Hz), 6.6 VA (50 Hz)	8.0 VA (60 Hz), 7.0 VA (50 Hz)		
	200V AC	7.0 VA (60 Hz), 6.0 VA (50 Hz)	8.0 VA (60 Hz), 7.0 VA (50 Hz)		
Dower	110V AC	3.8 VA (60 Hz), 3.3 VA (50 Hz)	3.5 VA (60 Hz), 7.0 VA (50 Hz)		
Power Consumption	100V AC	3.5 VA (60 Hz), 3.3 VA (50 Hz)	3.5 VA (60 Hz), 3.0 VA (50 Hz)		
	24V AC	1.6 VA	2.0 VA		
	24V DC	1.0W	0.8W		
10-11-1-1		101g	95g		
Weight (Approx.)		ivig	ฮงช		

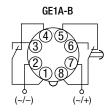
### GE1A-B

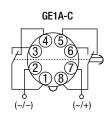
Item	Terminal No.	Operation		
Power	2-7 (Power)	✓ Preset Time →		
Delayed Contact	5-8 (NC)			
	6-8 (NO)			
Instantaneous Contact	1-4 (NC)			
	1-3 (NO)			
LED Indicator	POWER			
	OUT			

### GE1A-C

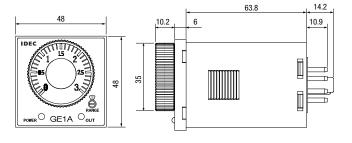
Item	Terminal No.	Operation		
Power	2-7 (Power)	▼ Preset Time ▶		
Delayed	1-4, 5-8 (NC)			
Contact	1-3, 6-8 (NO)			
LED	POWER			
Indicator	OUT			

## **Internal Connections**

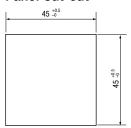




## **Dimensions**



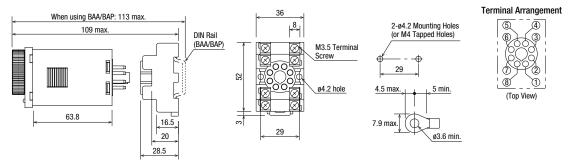
## **Panel Cut-out**



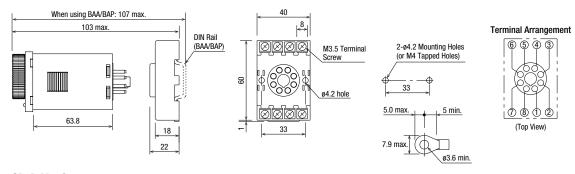
Applicable Sockets

All dimensions in mm.

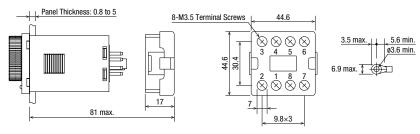
### SR2P-05B (not UL/c-UL listed)



### SR2P-06B



### SR6P-M08G



### **Accessories**

7.0000001100				
Name	Shape	Part No.		
Panel Mount Adapter		GE9Z-AD		
Dust Cover	0	GE9Z-C48		

## **IDEC CORPORATION**

**Head Office** 

6-64, Nishi-Miyahara-2-Chome, Yodogawa-ku, Osaka 532-0004, Japan

USA IDEC Corporation Germany APEM GmbH Singapore IDEC Izumi Asia Pte. Ltd. Thailand IDEC Asia (Thailand) Co., Ltd Australia IDEC Australia Pty. Ltd.

Tel: +65-6746-1155 info@sg.idec.com Tel: +66-2-392-9765 sales@th.idec.com Tel: +61-3-8523-5900 sales@au.idec.com IDEC Controls India Private Limited Tel: +91-80679-35328 info\_india@idec.com

 $Tel: +1\text{-}408\text{-}747\text{-}0550 \quad opencontact@idec.com$ Tel: +49-40-25 30 54-0 service@eu.idec.com

Taiwan **Hong Kong** China/Beijing Japan

IDEC Taiwan Corporation IDEC Izumi (H.K.) Co., Ltd. China/Shanghai IDEC (Shanghai) Corporation Tel: +86-21-6135-1515 China/Shenzhen IDEC (Shenzhen) Corporation Tel: +86-755-8356-2977 idec@cn.idec.com IDEC (Beijing) Corporation Tel: +86-10-6581-6131 idec@cn.idec.com **IDEC Corporation** 

Tel: +886-2-2577-6938 service@tw.idec.com Tel: +852-2803-8989

Tel: +81-6-6398-2527

www.idec.com

info@hk.idec.com idec@cn.idec.com marketing@idec.co.jp

Specifications and other descriptions in this brochure are subject to change without notice. Information in this brochure is current as of June, 2020. 2020 IDEC Corporation, All Rights Reserved.

