IDEC

Think Automation and beyond...

Timers

IDEC CORPORATION

Timer (Selection Guide)

Classification		GT3 Series Multi-function Timers					
		Multi-mode (Analog Setting)		OFF Delay (8-pin Terminal)	Star-Delta (8-pin Terminal)	Twin-Timer (8-pin Terminal)	
		8-pin	With Inputs (11-pin)				
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 System		Solid-state CMOS circuitry		Solid-state CMOS circuitry			
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)	
Timing Accuracy	Repeat Error	±0.2%, ±10 ms (Note)		±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	±0.2%, ±10 ms (Note)	
	Setting Error	±10%		±10%	±10%	±10%	
	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 Voltage		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 Connection		• Pin Terminals Socket (DIN rail mount screw terminal, panel mount screw terminal, solder terminal) Snap Mounting Adapter					
Life	Mechanical	20,000,000 operations minimum		3,000,000 operations minimum	20,000,000 operations minimum	20,000,000 operations minimum	
	Electrical	100,000 operations minimum		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 AC, 60Hz) 0.7W (Delayed DPDT, 24V DC)		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 Humidity		35 to 85% RH (no condensation)					
Storage Temperature		–30 to +70°C (no freezing)					
Storage Humidity		35 to 85% RH (no condensation)					
Dimensions (Body)(mm)		40H × 36W × 72.2D		40H × 36W × 72.2D	40H × 36W × 72.2D	40H × 36W × 70D	
Weight (Approx.)		(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	

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

	GT5 Series Miniature Electronic Timers		GE1A Series Electronic Timers	
	GT5Y (Solder Terminal)	GT5P (8-pin Terminal)	GE1A-B	GE1A-C
			4 different time ranges	
	(1) GT5Y-2S ✱ (2) GT5Y-4S ✱ Operation mode, time range, and rated voltage code in ✱	(1) GT5P ✱ Operation mode, time range, and rated voltage code in ✱	GE1A①②③ ①Contact code ②Time range code ③Rated voltage code	GE1A①②③ ①Contact code ②Time range code ③Rated voltage code
				
	RC oscillator		RC oscillator	
	(1)(2) ON Delay, Interval, or Cycle available on both types	ON Delay, Cycle, or One Shot available	ON delay (Instantaneous contact)	ON delay
	• 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	10H (0.1 min to 10 hours) 30H (0.3 min to 30 hours)	
	(1) Delayed DPDT (2) Delayed 4PDT	Delayed SPDT	Delayed + Instantaneous	Delayed
	(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)	240V AC/5A, 24V DC/5A (resistive load)	
	±0.2%, ±20 ms (Note)	±0.2%, ±10 ms (Note)	±0.2% ±10 ms maximum	
	±10% maximum	±10% maximum	±10% maximum	
	±0.5%, ±20 ms (Note)	±0.5%, ±20 ms (Note)	±0.5% ±10 ms maximum	
	±3% maximum	±3% maximum	±3% maximum	
	100 ms maximum	100 ms maximum	100 ms minimum	
	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)	100 to 110V AC, 200 to 200V AC, 220 to 240V AC, 24V AC/DC	
	• Solder Terminal Socket { DIN Rail Mount Screw Terminal; Panel Mount Solder; PC Board Terminal }	• Pin Terminal Socket { DIN Rail Mount Screw Terminal; Panel Mount Solder; Wrapping Terminal }	• Octal Pin Terminal Socket (Din rail mount socket, Panel mount socket, PC board mount socket)	
	50,000,000 operations minimum	20,000,000 operations minimum	GE1A-B: 10,000,000 operations minimum GE1A-C: 5,000,000 operations minimum	
	(1) 500,000 operations minimum (2) 200,000 operations minimum	100,000 operations minimum	100,000 operations minimum	
	–	–	–	
	1.6VA (100V AC, 60Hz) 1.4VA (200V AC, 60Hz) 1.0W (24V DC)	• Excluding One Shot 2.3VA (100V AC, 60Hz) 3.9VA (200V AC, 60Hz) 0.5W (24V DC)	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)
	–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	48H × 48W × 95.2D	
	50g	49g	101g	95g
	UL, c-UL, CE	UL, CSA, CE	UL, c-UL, TÜV, CE	
	23	25	30	

GT3 Series Multi-function Timers

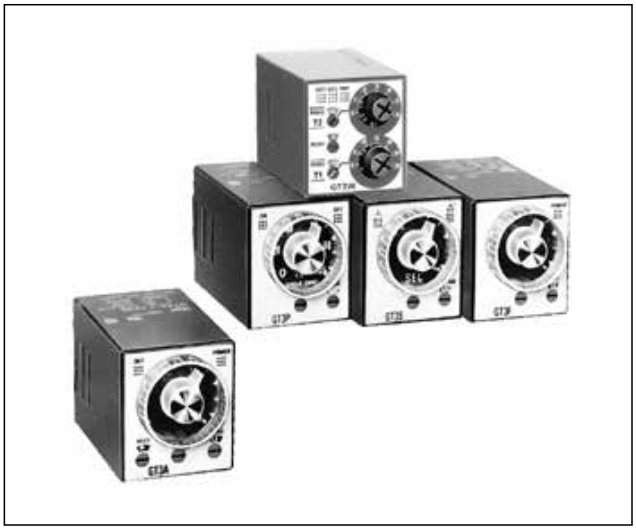
Wide Variety Including OFF Delay and Star-Delta

- 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	c UL us LISTED	UL/c-UL Listed File No. E55996
EN61812-1	CE	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 Mode		Model	Contact	Time Range	Output	Operating Voltage	Part No.
On Delay Interval ON Cycle OFF Cycle ON		GT3A-1	Delayed SPDT	0.1 sec to 180 hours	240V AC, 3A 120V AC/ 30V DC, 5A	100 to 240V AC	**GT3A-1AF20**
		GT3A-2	Delayed SPDT + Instantaneous SPDT			100 to 240V AC	**GT3A-2AF20**
						24V AC/24V DC	**GT3A-2AD24**
		GT3A-3	Delayed DPDT		240V AC/ 24V DC, 5A	100 to 240V AC	**GT3A-3AF20**
						24V AC/24V DC	**GT3A-3AD24**
ON Delay Cycle Signal ON/OFF Delay Signal OFF Delay	With Input	GT3A-4	Delayed DPDT (11P)	0.1 sec to 180 hours	240V AC/ 24V DC, 5A	100 to 240V AC	**GT3A-4AF20**
						24V AC/24V DC	**GT3A-4AD24**
Interval ON One Shot Cycle Signal ON/OFF Delay Signal OFF Delay	With Input	GT3A-5				100 to 240V AC	**GT3A-5AF20**
						24V AC/24V DC	**GT3A-5AD24**
One Shot One Shot ON Delay One Shot Signal ON/OFF Delay	With Input	GT3A-6				100 to 240V AC	**GT3A-6AF20**
						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 Reset Input	GT3F-1	Delayed SPDT	0.1 sec to 600 sec	250V AC/ 24V DC, 5A	100 to 240V AC	**GT3F-1AF20**
						24V AC/24V DC	**GT3F-1AD24**
	Without Reset Input	GT3F-2	Delayed DPDT		250V AC/ 24V DC, 3A	100 to 240V AC	**GT3F-2AF20**
						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 0.1 sec 0.25 sec 0.5 sec	250V AC/ 30V DC, 5A	100 to 240V AC	**GT3S-1AF20**
	GT3S-2	Delayed Star: SPST-NO Delta: SPST-NO Instantaneous: SPST-NO				**GT3S-2AF20**

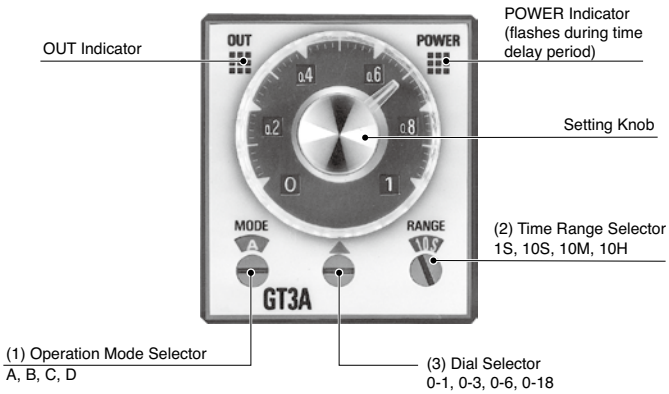
Twin-Timer

For details, see pages 15 to 16.

Operation Mode	Model	Contact	Time Range	Output	Operating Voltage	Part No.
Serial Activation Coarse/Fine Adjustment Setting Instantaneous Cycle Cycle Cycle Inversion Interval ON Interval ON Delay Serial Interval ON	GT3W-A	Delayed SPDT + Delayed SPDT	T1: 0.1 sec to 6 hours T2: 0.1 sec to 6 hours	240V AC, 3A 120V AC/ 30V DC, 5A	100 to 240V AC	**GT3W-A11AF20N**
					24V AC/24V DC	**GT3W-A11AD24N**
			T1: 0.1 sec to 6 hours T2: 0.1 sec to 300 hours		100 to 240V AC	**GT3W-A13AF20N**
					24V AC/24V DC	**GT3W-A13AD24N**
			T1: 0.1 sec to 300 hours T2: 0.1 sec to 6 hours		100 to 240V AC	**GT3W-A31AF20N**
					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**
					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.
A: ON Delay B: Interval ON C: Cycle OFF D: Cycle ON	100 to 240V AC	0.1 sec to 180 hours See Time Ranges for details.	240V AC, 3A 120V AC/30V DC, 5A (resistive load)	Delayed SPDT	**GT3A-1AF20**
	100 to 240V AC			Delayed SPDT + Instantaneous SPDT	**GT3A-2AF20**
	24V AC/24V DC				**GT3A-2AD24**
	100 to 240V AC		240V AC/24V DC, 5A (resistive load)	Delayed DPDT	**GT3A-3AF20**
	24V AC/24V DC				**GT3A-3AD24**

Time Ranges

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

Contact Ratings

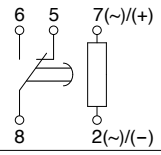
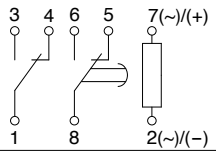
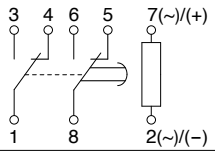
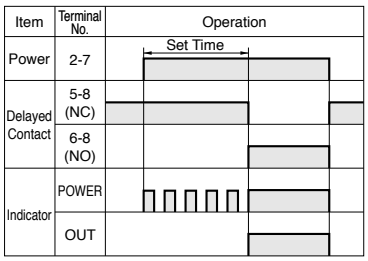
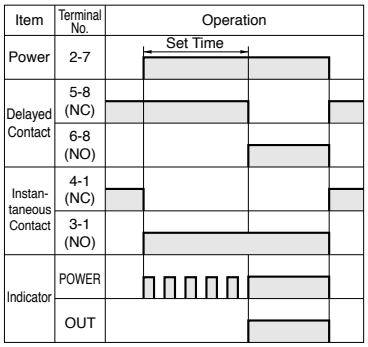
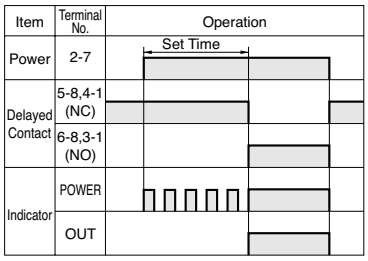
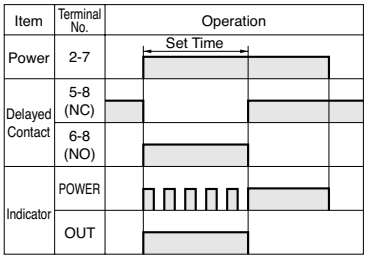
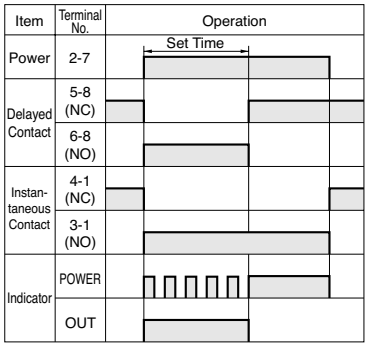
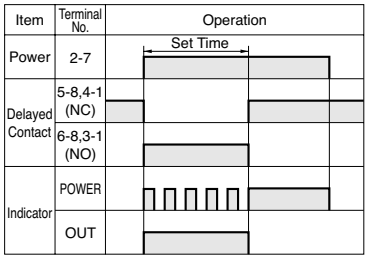
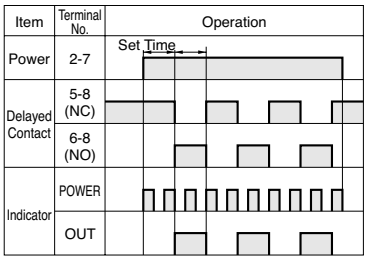
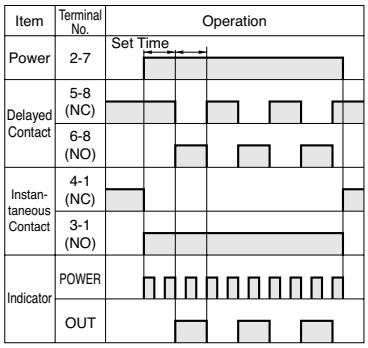
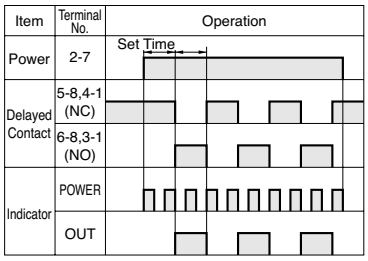
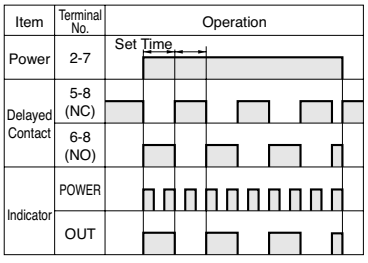
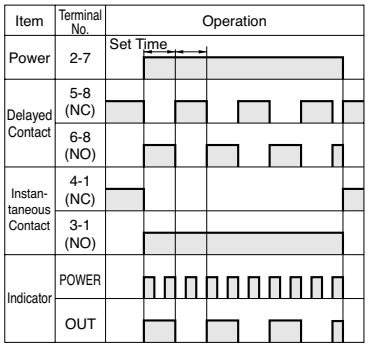
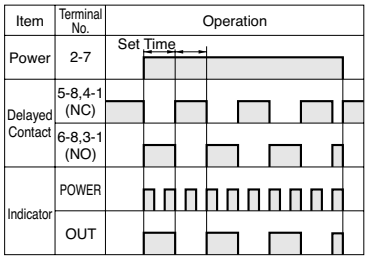
Model		GT3A-1, GT3A-2	GT3A-3
Rated Load		240V AC, 3A (resistive load) 120V AC/30V DC, 5A (resistive load)	240V AC/24V DC, 5A (resistive load)
Maximum Switching Power		AC: 960VA DC: 120W	AC: 1200VA DC: 120W
Maximum Switching Voltage		250V AC/150V DC	
Maximum Switching Current		5A	
Maximum Switching Frequency		600 operations/hour	600 operations/hour
Minimum Applicable Load		5V DC, 10 mA (reference value)	
External Protection Element		Fuse 250V, 5A	
Life	Electrical	100,000 operations minimum (rated load)	
	Mechanical	20,000,000 operations minimum	

General Specifications

Model			GT3A-1	GT3A-2	GT3A-3
Operation System			Solid-state CMOS circuitry		
Operation			Multi-Mode		
Time Range			0.1 sec to 180 hours		
Pollution Degree			2 (IEC60664-1)		
Overvoltage Category			III (IEC60664-1)		
Rated Voltage		AF20	100 to 240V AC (50/60Hz)		
		AD24	24V AC (50/60Hz)/24V DC		
Voltage Range		AF20	85 to 264V AC (50/60Hz)		
		AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC		
Reset Voltage			Rated voltage × 10% minimum		
Operating Temperature			−10 to +50°C (no freezing)		
Storage Temperature			−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 maximum (Note)		
Voltage Error			±0.2%, ±10 ms maximum (Note)		
Temperature Error			±0.2%, ±10 ms maximum (Note)		
Setting Error			±10% maximum		
Insulation Resistance			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 (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 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)		
Power Consumption (approx.)	AF20	100V AC 60Hz	2.9VA	2.5VA	2.2VA
		200V AC 60Hz	4.7VA	4.3VA	4.0VA
	AD24 (AC/DC)		1.3VA/0.5W	2.0VA/0.8W	1.8VA/0.7W
Dimensions			40H × 36W × 72.2D mm		
Weight (approx.)			63g	73g	79g

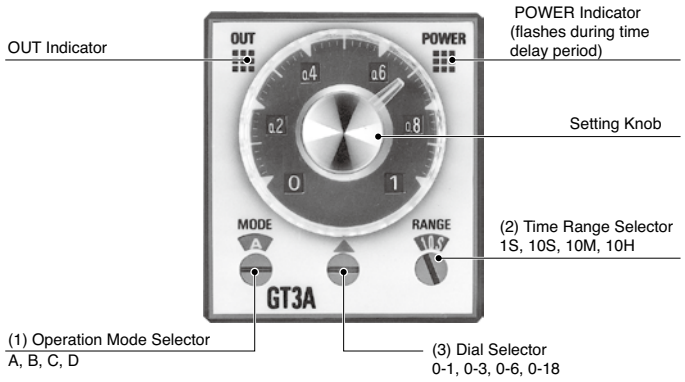
Note: The largest value becomes the error against a preset value depending on the time range.

Operation Chart

Operation Chart			
Part No.	GT3A-1 ☐	GT3A-2 ☐	GT3A-3 ☐
Contact	Delayed SPDT	Delayed SPDT + Instantaneous SPDT	Delayed DPDT
Internal Connection / Operation Mode Selection			
On Delay 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.			
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.			
Cycle OFF (OFF start) MODE 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			
Cycle ON (ON start) MODE D 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			

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 C: Signal ON Delay D: Signal OFF Delay	100 to 240V AC	0.1 sec to 180 hours See Time Ranges for details	240V AC, 5A 24V DC, 5A (resistive load)	Delayed DPDT	Start Reset Gate	GT3A-4AF20
	24V AC/24V DC					GT3A-4AD24
A: Interval ON B: One-Shot Cycle, C: Signal ON/OFF Delay D: Signal OFF Delay	100 to 240V AC					GT3A-5AF20
	24V AC/24V DC					GT3A-5AD24
A: One-Shot B: One-Shot ON Delay C: One-Shot D: Signal ON/OFF Delay	100 to 240V AC					GT3A-6AF20
	24V AC/24V DC					GT3A-6AD24

Time Ranges

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

Contact Ratings

Rated Load		240V AC/24V DC, 5A (resistive load)
Maximum Switching Power		AC: 1200VA DC: 120W
Maximum Switching Voltage		250V AC/150V DC
Maximum Switching Current		5A
Maximum Switching Frequency		600 operations/hour
Minimum Applicable Load		5V DC, 10 mA (reference value)
External Protection 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 NPN open collector transistor inputs are applicable. 24V DC, 1 mA maximum Input response time: 50 ms maximum
Reset Input	When the reset input goes on (L level), the timer is reset to the original time (time at power-on).	
Gate Input	The time delay operation is suspended while the gate input is on (L level).	

General Specifications

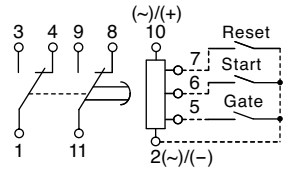
Operation System		Solid-state CMOS circuitry
Operation		Multi-mode with inputs (11 pins)
Time Range		0.1 sec to 180 hours
Pollution Degree		2 (IEC60664-1)
Overvoltage Category		III (IEC60664-1)
Rated Voltage	AF20	100 to 240V AC (50/60Hz)
	AD24	24V AC (50/60Hz)/24V DC
Voltage Range	AF20	85 to 264V AC (50/60Hz)
	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC
Reset Voltage		Rated voltage × 10% minimum
Operating Temperature		–10 to +50°C (no freezing)
Storage Temperature		–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		±0.2%, ±10 ms (Note)
Setting Error		±10% maximum
Insulation Resistance		100MΩ 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: 1000V AC, 1 minute
Vibration Resistance		Damage Limits: 10 to 55 Hz, amplitude 0.75 mm, 2 hours each in 3 directions Operating extremes: 10 to 55 Hz, amplitude 0.41mm, 2 hour 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)
Power Consumption (Approx.)	AF20	2.2VA (100V AC/60Hz), 4.1VA (200V AC/60Hz)
	AD24	1.8VA (AC)/0.7W (DC)
Dimensions		40H × 36W × 72.2D mm
Weight (approx.)		80g

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

Operation Chart

GT3A-4 ☐

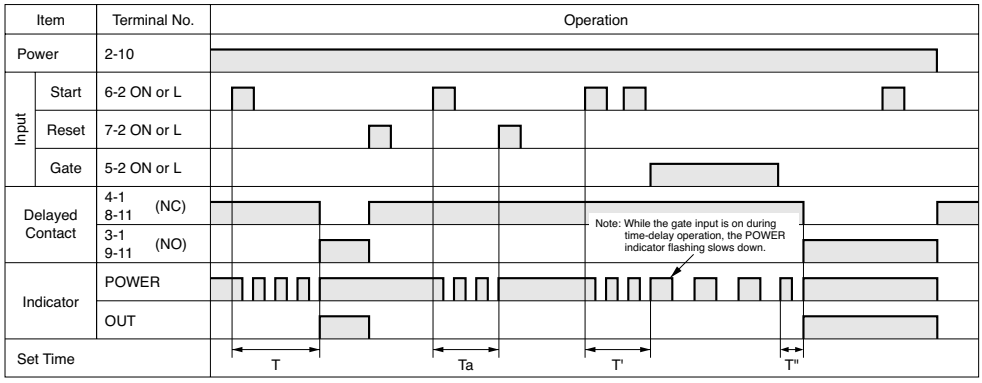
Note: While the gate input is on during time delay operation, the POWER indicator flashing slows down.

	Operation Chart
Contact	Delayed DPDT
Internal Connection / Operation Mode Selection	 Note: T = Set time Ta = Shorter than set time T = T' + T''

On Delay

MODE A

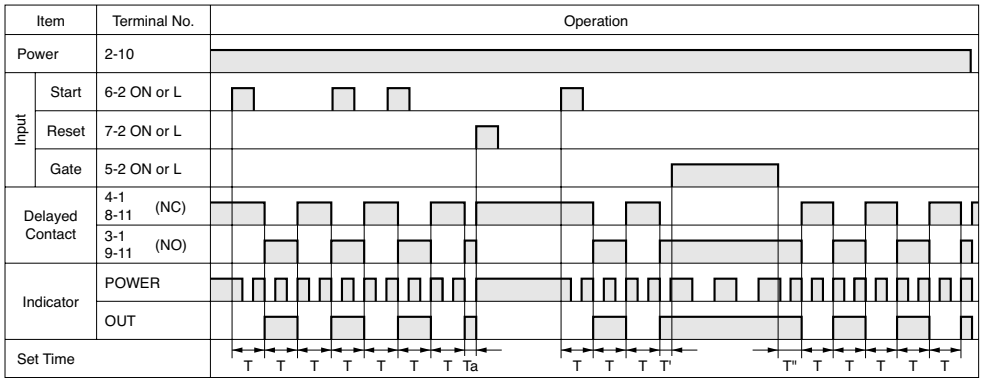
Power is applied to timer at all times. Set time for desired delay. When start input is supplied time delay starts, contacts transfer after preset time has elapsed. Contacts remain in transferred position until timer is reset.



Cycle

MODE B

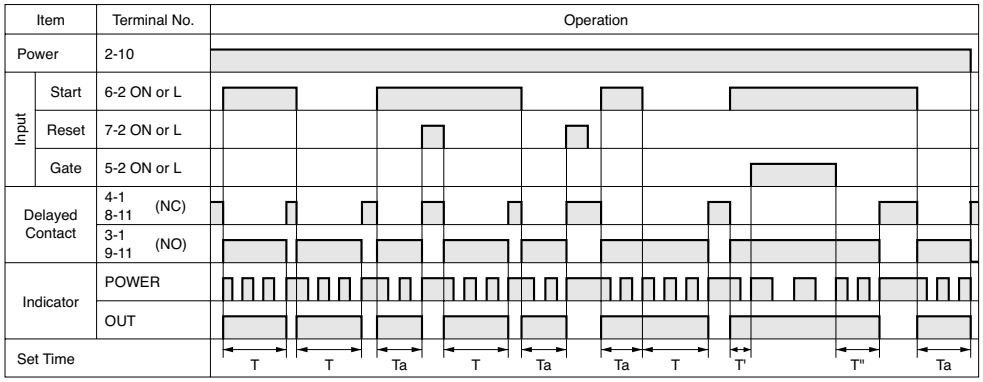
Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts transfer after preset time has elapsed and remain in transferred position until preset time elapses a second time. The timer will now continue to cycle in above manner until reset applied.



Signal ON/OFF Delay

MODE C

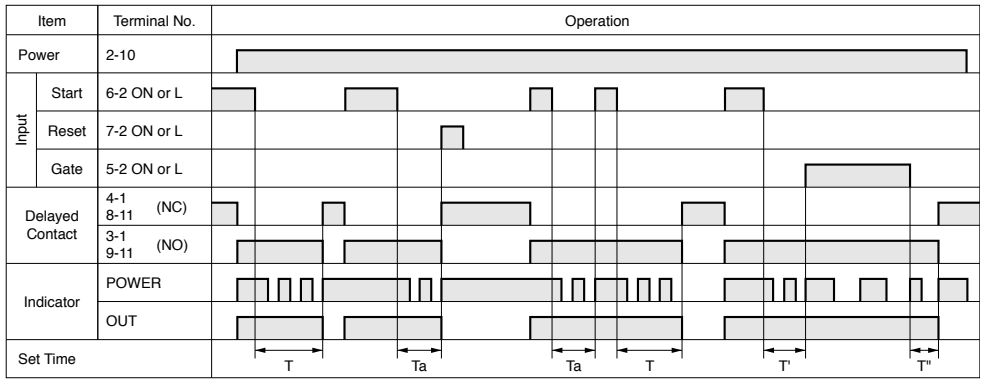
For this mode a maintained pushbutton is required for start input. Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts will transfer immediately. After preset time (with start input still present) contacts will transfer back to original position. Remove start signal, at this time contacts will again transfer. Contacts will transfer to original position after preset time. Timer is reset by initiation of reset input.



Signal OFF Delay

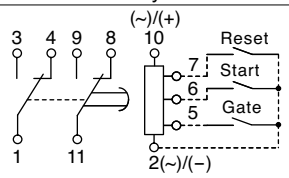
MODE D

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts immediately transfer. When start input is removed time delay starts. After preset time contacts transfer back to original position. Timer is reset by initiation of reset input.



IDEC

GT3A-5 ☐

	Operation Chart
Contact	Delayed DPDT
Internal Connection / Operation Mode Selection	 Note: T = Set time Ta = Shorter than set time T = T' + T''

Interval ON

MODE A

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts immediately transfer. After preset delay contacts return to original position. Timer is reset by initiation of reset input.

Item		Terminal No.	Operation
Power		2-10	
Input	Start	6-2 ON or L	
	Reset	7-2 ON or L	
	Gate	5-2 ON or L	
Delayed Contact		4-1 8-11 (NC)	
		3-1 9-11 (NO)	
Indicator		POWER	
		OUT	
Set Time			T, Ta, T', T''

One-Shot Cycle

MODE B

Power is applied to timer at all times. Set timer for desired delay, initiate start input. After preset time has elapsed contacts will transfer. Contacts will transfer to their original position after preset time elapses a second time. Timer is reset by initiation of reset input.

Item		Terminal No.	Operation
Power		2-10	
Input	Start	6-2 ON or L	
	Reset	7-2 ON or L	
	Gate	5-2 ON or L	
Delayed Contact		4-1 8-11 (NC)	
		3-1 9-11 (NO)	
Indicator		POWER	
		OUT	
Set Time			T, T, T, Ta, T', T'', T

Signal ON/OFF Delay

MODE C

For this mode a maintained pushbutton is required for start input. Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts will transfer immediately. After preset time (with start input still present) contacts will transfer back to original position. Remove start signal, at this time contacts will again transfer. Contacts will transfer to original position after preset time. Timer is reset by initiation of reset input.

Item		Terminal No.	Operation
Power		2-10	
Input	Start	6-2 ON or L	
	Reset	7-2 ON or L	
	Gate	5-2 ON or L	
Delayed Contact		4-1 8-11 (NC)	
		3-1 9-11 (NO)	
Indicator		POWER	
		OUT	
Set Time			T, T, Ta, T, Ta, Ta, T, T', T'', Ta

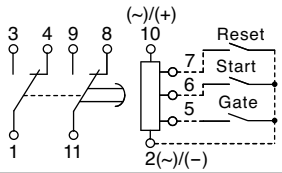
Signal OFF Delay

MODE D

Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts immediately transfer. When start input is removed time delay starts. After preset time contacts transfer back to original position. Timer is reset by initiation of reset input.

Item		Terminal No.	Operation
Power		2-10	
Input	Start	6-2 ON or L	
	Reset	7-2 ON or L	
	Gate	5-2 ON or L	
Delayed Contact		4-1 8-11 (NC)	
		3-1 9-11 (NO)	
Indicator		POWER	
		OUT	
Set Time			T, Ta, Ta, T, T', T''

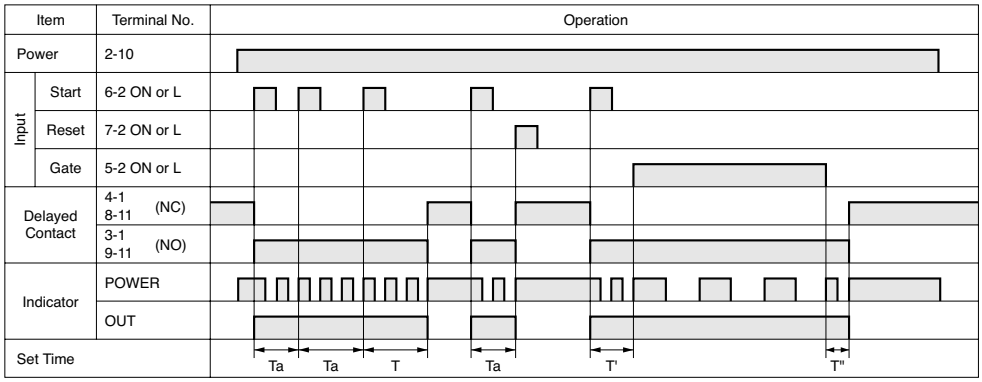
GT3A-6 ☐

	Operation Chart
Contact	Delayed DPDT
Internal Connection / Operation Mode Selection	 Note: T = Set time Ta = Shorter than set time T = T' + T''

One Shot

MODE A

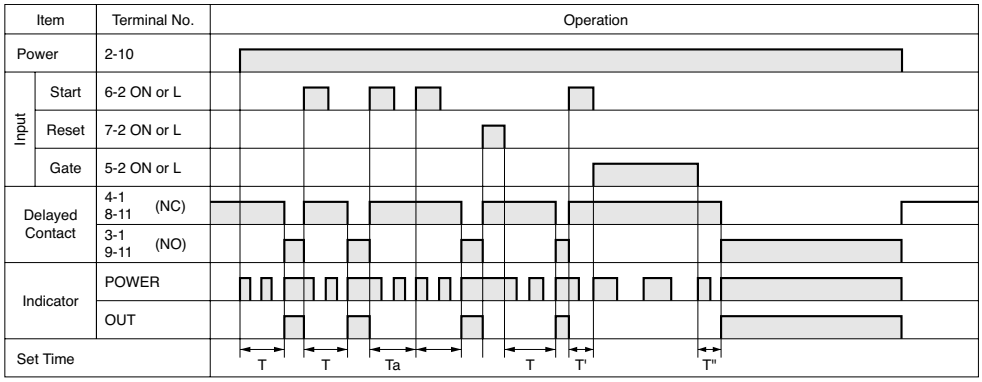
Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts immediately transfer. After preset time has elapsed contacts transfer back to original position. Reset occurs with initiation of reset input.



One Shot ON Delay

MODE B

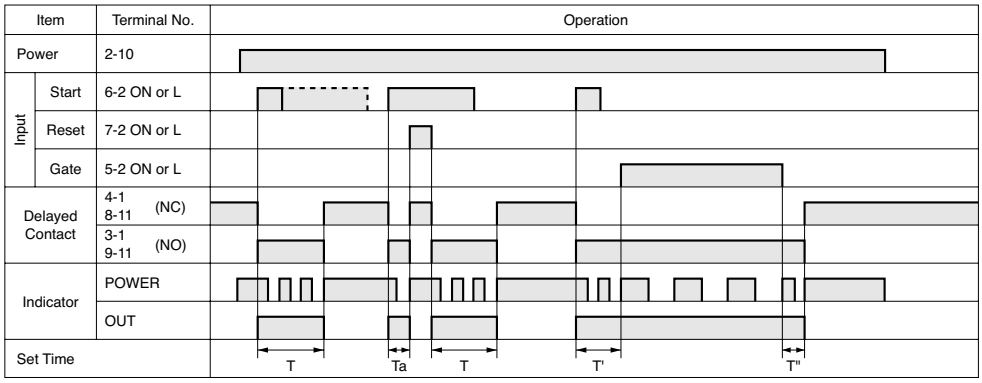
Set timer for desired delay. When power is applied preset time begins and contacts transfer after preset time has elapsed (no start input needed at this time). Start input is now supplied, this causes the contacts to transfer back to original position. Contacts will remain in this position for preset time, after which they will transfer again. Contacts will now remain in this position until: reset, start input is applied again or power is removed.



One Shot

MODE C

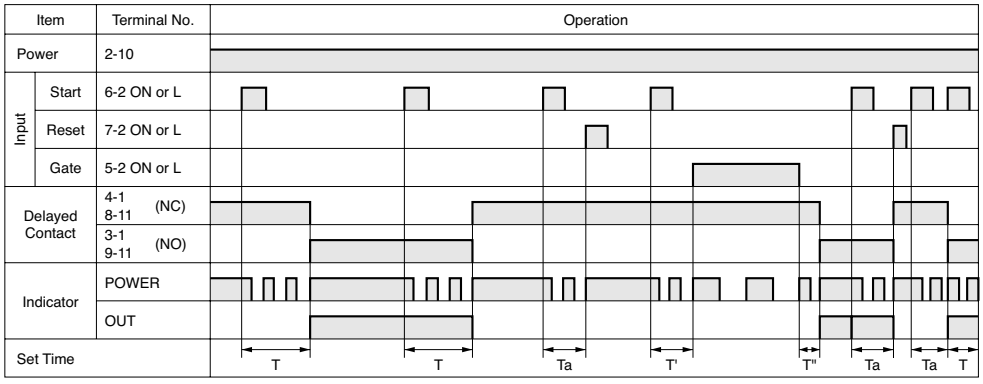
Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts immediately transfer. After preset time has elapsed contacts transfer back to original position. Reset occurs with initiation of reset input.



Signal ON/OFF Delay

MODE D

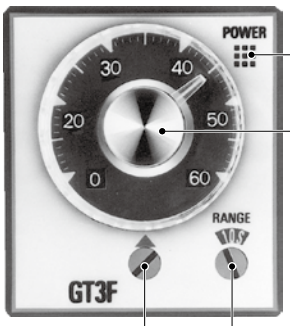
For this mode a maintained pushbutton is required for start input. Power is applied to timer at all times. Set timer for desired delay, initiate start input. Contacts will transfer immediately. After preset time (with start input still present) contacts will transfer back to original position. Remove start signal, at this time contacts will again transfer. Contacts will transfer to original position after preset time. Timer is reset by initiation of reset input.



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

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

GT3F-1 ☐
GT3F-2 ☐



POWER Indicator

Setting Knob

(1) Dial Selector
0-1, 0-3, 0-18, 0-60

(2) Time Range Selector
1s, 10s

(1) Operation Mode	Rated Voltage Code	Time Ranges	Output	Contact	Input	Part No.
Power OFF Delay	100 to 240V AC	0.1 sec to 600 sec	250V AC/24V DC, 5A	Delayed SPDT	Reset	**GT3F-1AF20**
	24V AC/24V DC					**GT3F-1AD24**
	100 to 240V AC		250V AC/24V DC, 3A	Delayed DPDT	Without	**GT3F-2AF20**
	24V AC/24V DC					**GT3F-2AD24**

Time Ranges

GT3F-1/GT3F-2

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

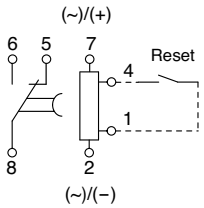
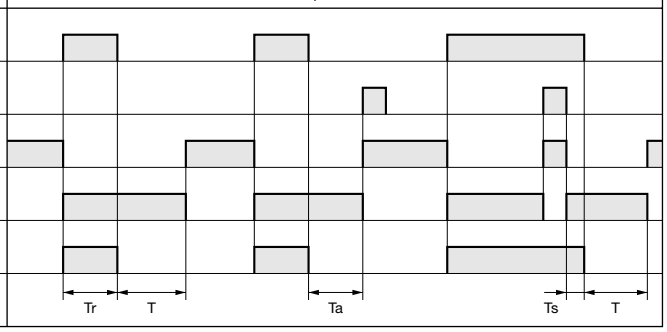
Operation System		Solid-state CMOS circuitry
Operation		Power OFF delay
Time Range		0.1 sec to 600 hours
Pollution Degree		2 (IEC60664-1)
Overvoltage Category		III (IEC60664-1)
Rated Voltage	AF20	100 to 240V AC (50/60Hz)
	AD24	24V AC (50/60Hz)/24V DC
Voltage Range	AF20	85 to 264V AC (50/60Hz)
	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC
Time Delay Operation Start Voltage		Rated Voltage × 10% minimum
Minimum Power Application Time (Note 1)		0.4 sec (time range: 180 sec or less) 1 sec (time range: 600 sec)
Operating Temperature		–10 to +50°C (no freezing)
Storage Temperature		–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)
Repeat Error		±0.2%, ±10 ms (Note 2)
Voltage Error		±0.2%, ±10 ms (Note 2)
Temperature Error		±0.2%, ±10 ms (Note 2)
Setting Error		±10%
Insulation Resistance		100 MΩ min. (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: 1000V 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 m/s², 3 shocks each in 6 directions
Degree of Protection		IP40 (timer), IP20 (socket) (IEC60529)
Power Consumption (approx.)	AF20	1.1 VA (100V AC/60Hz), 2.3 VA (200V AC/60Hz)
	AD24	0.7 VA (AC)/0.2W (DC)
Dimensions		40H × 36W × 72.2D mm
Weight (approx.)		GT3F-1: 77g; GT3F-2: 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.

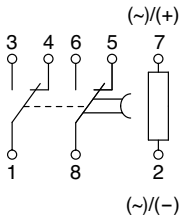
Operation Chart

<table>
<tr><th>Contact</th><th>Internal Connection</th><th>Operation Chart</th></tr>
<tr>
<td>GT3F-1

Delayed SPDT Output
with Reset Input</td>
<td> 
</td>
<td>
<table>
<tr><th>Item</th><th>Terminal No.</th><th>Operation</th></tr>
<tr><td>Power</td><td>2-7</td><td rowspan="5"> 
</td></tr>
<tr><td>Reset Input</td><td>4-1
ON</td></tr>
<tr><td rowspan="2">Delayed Contact</td><td>5-8
(NC)</td></tr>
<tr><td>6-8
(NO)</td></tr>
<tr><td>Indicator</td><td>POWER</td></tr>
<tr><td colspan="2">Set Time</td></tr>
</table>
T = Set time
Ta = Shorter than set time
Ts = 1 sec
Tr = Minimum power application time

0.4 sec (time range: 180 sec or less)
1 sec (time range: 600 sec or less)
When power turns on, the NO output contact goes on. When a preset time has elapsed after the power has been turned off, the NO output contact goes off.
The contact is reset by turning the reset input on.

</td>
</tr>
<tr>
<td>GT3F-2

Delayed DPDT Output</td>
<td> 
</td>
<td>
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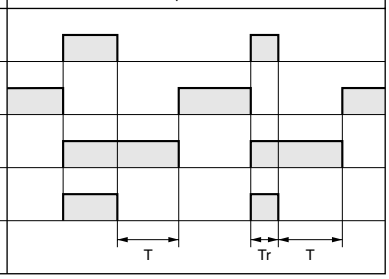
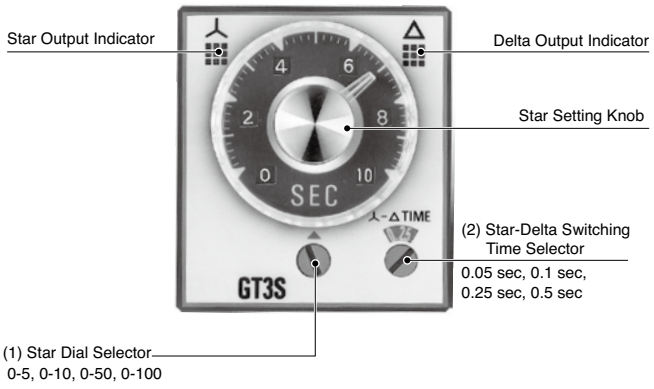
<tr><th>Item</th><th>Terminal No.</th><th>Operation</th></tr>
<tr><td>Power</td><td>2-7</td><td rowspan="4"> 
</td></tr>
<tr><td rowspan="2">Delayed Contact</td><td>5-8, 4-1
(NC)</td></tr>
<tr><td>6-8, 3-1
(NO)</td></tr>
<tr><td>Indicator</td><td>POWER</td></tr>
<tr><td colspan="2">Set Time</td></tr>
</table>
T = Set time
Tr = Minimum power application time

0.4 sec (time range: 180 sec or less)
1 sec (time range: 600 sec or less)
When power turns on, the NO output contact goes on. When a preset time has elapsed after the power has been turned off, the NO output contact goes off.

</td>
</tr>
</table>

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 0.10 sec 0.25 sec 0.50 sec	250V AC/ 30V DC, 5A (resistive load)	Star: Delayed SPST-NO Delta: Delayed SPST-NO	GT3S-1AF20
				Star: Delayed SPST-NO Delta: Delayed SPST-NO Instantaneous SPST-NO	GT3S-2AF20

Time Ranges

① Star 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

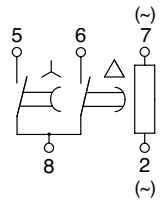
Rated Load		250V AC/30V DC, 5A (resistive load) 250V AC, 1.5A/30V DC, 2A (inductive load)
Maximum Switching Power		AC: 1250VA DC: 150W
Maximum Switching Voltage		250V AC/125V DC
Maximum Switching Current		5A
Maximum Switching Frequency		600 operations/hour
Minimum Applicable Load		5V DC, 100mA (reference value)
External Protection 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	Star-delta	
Time Range	Star side: 0.05 sec to 100 sec Star delta switching time: 0.05, 0.1, 0.25, 0.5 sec	
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% minimum	
Operating Temperature	–10 to +50°C (no freezing)	
Storage Temperature	–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	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 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 Resistance	Damage limits/operating extremes: 10 to 55 Hz, amplitude 0.75 mm, 2 hours each in 3 directions	
Shock Resistance	Operating extremes: 98 m/s^2, Damage limits: 490 m/s^2, 3 shocks each in 6 directions	
Degree of Protection	IP40 (timer), IP20 (socket) (IEC60529)	
Power Consumption (approx.)	GT3S-1AF20	GT3S-2AF20
	2.3VA (100V AC/60Hz)	2.3VA (100V AC/60Hz)
	4.0VA (200V AC/60Hz)	3.8VA (200V AC/60Hz)
Dimensions	40H × 36W × 72.2D mm	
Weight (approx.)	GT3S-1AF20	GT3S-2AF20
	68g	75g

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

Operation Chart

<table>
<tr><th>Contact</th><th>Internal Connection</th><th>Operation Chart</th></tr>
<tr>
<td>GT3S-1
Star : Delayed SPST-NO
Delta: Delayed SPST-NO</td>
<td> 
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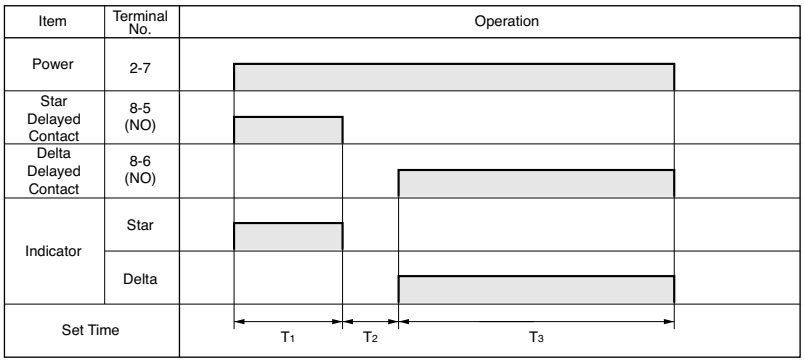
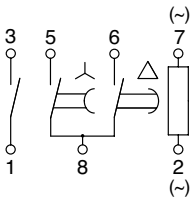


The star delayed contact goes on when power is turned on and goes off after a set time for the star contact (T_1).
The delta contact goes on after star-delta switching time (T_2) and goes off when power is turned off.
• T_1 = Star ON time (Set Time), T_2 = Star-delta swithing time, T_3 = Star ON time
</td>
</tr>
<tr>
<td>GT3S-2
Star : Delayed SPST-NO
Delta: Delayed SPST-NO Instantaneous SPST-NO</td>
<td> 
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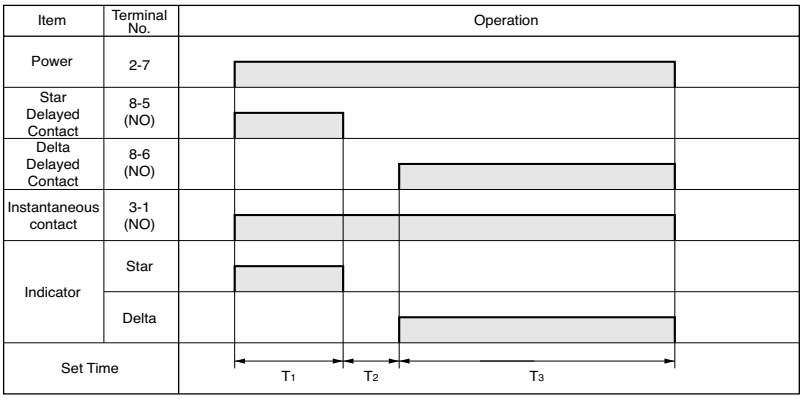
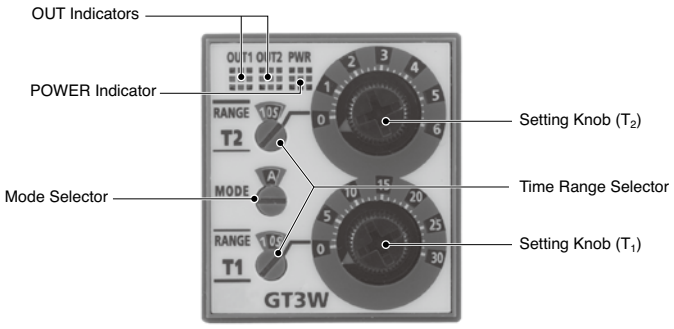


• The star delayed contact goes on when power is turned on and goes off after a set time for the star contact (T_1).
The delta contact goes on after star-delta switching time (T_2) and goes off when power is turned off.
• Instantaneous contact goes on when power is turned on and goes off when power is turned off.
• T_1 = Star ON time (Set Time), T_2 = Star-delta swithing time, T_3 = Star ON time
</td>
</tr>
</table>

GT3W-A11, -A13, -A31, A33

Multi-range Twin-Timer with 8 operation modes



(1) Operation Mode	Rated Voltage	Time Ranges		Part No.
		T_1	T_2	
Sequential Start Coarse/Fine Adjustment Instantaneous Cycle Cycle Cycle Inversion Interval ON Interval ON Delay Sequential Interval	100 to 240V AC	0.1 sec to 6 hours	0.1 sec to 6 hours	**GT3W-A11AF20N**
	24V AC/24V DC			**GT3W-A11AD24N**
	100 to 240V AC		0.1 sec to 300 hours	**GT3W-A13AF20N**
	24V AC/24V DC			**GT3W-A13AD24N**
	100 to 240V AC	0.1 sec to 300 hours	0.1 sec to 6 hours	**GT3W-A31AF20N**
	24V AC/24V DC			**GT3W-A31AD24N**
	100 to 240V AC		0.1 sec to 300 hours	**GT3W-A33AF20N**
	24V AC/24V DC			**GT3W-A33AD24N**

Time Ranges

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

Contact Ratings

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 Protection Element		Fuse 250V, 5A
Life	Electrical	100,000 operations minimum (rated load)
	Mechanical	20,000,000 operations minimum

General Specifications

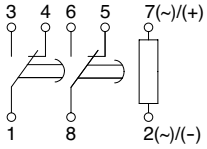
Operation System		Solid-state CMOS circuitry
Operation		Multi-Mode
Time Range		0.1 sec to 300 hours
Pollution Degree		2 (IEC60664-1)
Overvoltage Category		III (IEC60664-1)
Rated Range	AF20	100 to 240V AC (50/60Hz)
	AD24	24V AC (50/60Hz)/ 24V DC
Voltage Range	AF20	85 to 264V AC (50/60Hz)
	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC
Reset Voltage		Rated voltage × 10% minimum
Operating Temperature		–10 to +50°C (no freezing)
Storage Temperature		–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		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/s^2 Damage limits: 490 m/s^2 3 shocks each in 6 directions
Degree of Protection		IP40 (timer), IP20 (socket) (IEC60529)
Power Consumption (approx.)	AF20	2.6VA (100V AC /60Hz) 5.1VA (200V AC /60Hz)
	AD24	1.8VA (AC)/0.9W (DC)
Dimensions		40H × 36W × 70.0D mm
Weight (approx.)		73g

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

Operation Chart

A — Sequential Start

Contact: Delayed SPDT + Delayed SPDT



Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON after T1
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON after T1 + T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

B — Coarse/Fine Adjustment

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON after T1 + T2
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON after T1 + T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

C — Instantaneous Cycle

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		Instantaneous ON
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		OFF during T1 ON during T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2 T1 T2	

D — Cycle

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		OFF during T1 ON during T2
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		OFF during T1 ON during T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2 T1 T2	

E — Cycle Inversion

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON during T1 OFF during T2
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON during T1 OFF during T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

F — Interval ON

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON during T1
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON after T1, during T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

G — Interval ON Delay

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON during T1
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON after T1 + T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

H — Sequential Interval

Contact: Delayed SPDT + Delayed SPDT

Item	Terminal No.	Operation	Description
Power	2-7		
Delayed Contact Ry1	1-4 (NC)		ON during T1 + T2
	1-3 (NO)		
Delayed Contact Ry2	5-8 (NC)		ON after T1, during T2
	6-8 (NO)		
Indicator	OUT1		
	OUT2		
Set Time		T1 T2	

Applicable Sockets & Hold-Down Springs (Optional)

DIN Rail Mount Socket

Item		Part No.	Ordering No.	Applicable Timer	Package Quantity	Remarks
Socket	8-Pin Screw Terminal	**SR2P-06A**	**SR2P-06A**	GT3A-1/2/3, GT3F, GT3S, GT3W	1	Hold-down spring: SFA-202 (2 pcs.)
	11-Pin Screw Terminal	**SR3P-05A**	**SR3P-05A**	GT3A-4/5/6	1	Hold-down spring: SFA-203 (2 pcs.)
		SR3P-06A	**SR3P-06A**		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)
		SFA-203	**SFA-203PN20**	—	10 sets (20 pcs)	For SR3P-05A (2 pcs/set)

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

SR2P-06A

SR3P-05A

SR3P-06A

SFA-202 (2 pcs/set)

SFA-203 (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	—
	11-Pin Solder Terminal	**SR3P-511**	**SR3P-511**	GT3A-4/5/6	1	—
Hold-Down 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

SR3P-511

SFA-402

Panel Mount Adapter and wiring Socket Adapter

Package Quantity: 1

Item		Part No.
DIN 48mm Square Panel Mount Adapter 	Color: Gray	**RTB-G01**
	Color: Beige	**RTB-M01**
	Color: Black	**RTB-B01**
Wiring Socket Adapter	8-Pin Solder Terminal	**SR6P-S08**
	8-Pin Screw Terminal	**SR6P-M08G**
	11-Pin Solder Terminal	**SR6P-S11**
	11-Pin Screw 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

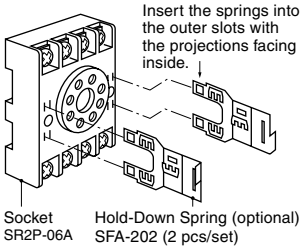
(11-pin Wiring Socket Adapter)
SR6P-S11

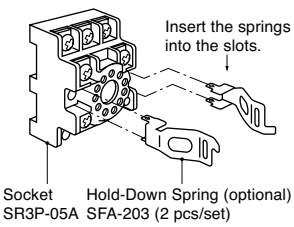
(8-pin Screw Wiring Socket Adapter)
SR6P-M08G

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

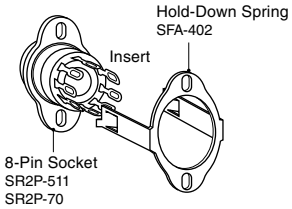
Installation of Hold-Down Springs

(DIN Rail Mount Socket)





(Panel Mount Socket)



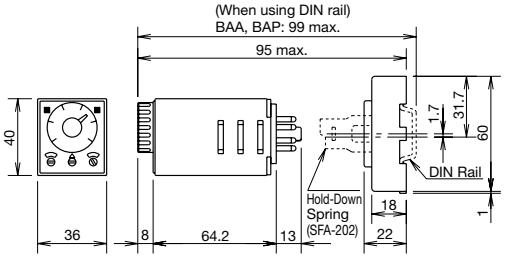
Note: Once installed into the socket, the hold-down springs cannot be removed.

Dimensions

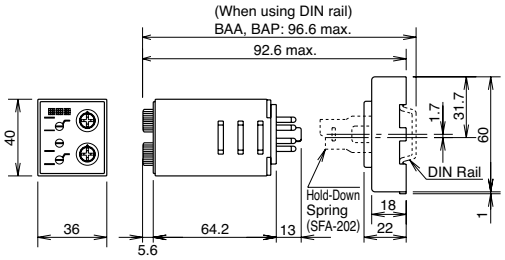
When Using DIN Rail Mount Socket

(SR2P-06A Socket)

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



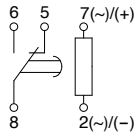
GT3W



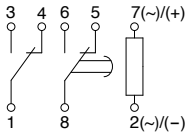
- Calculate the dimensions for mounting, referring to the diagrams of SR2P-06A on Relay Sockets catalog.

[Internal Connections]

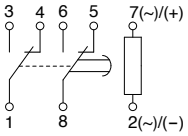
GT3A-1



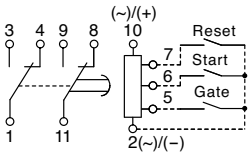
GT3A-2



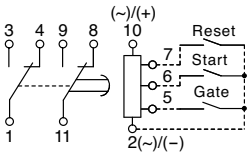
GT3A-3



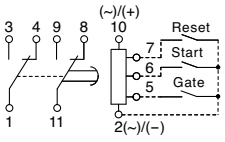
GT3A-4



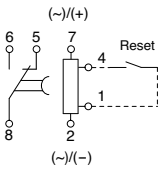
GT3A-5



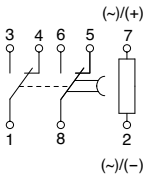
GT3A-6



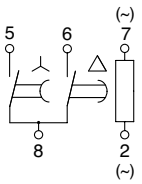
GT3F-1



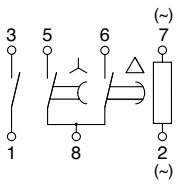
GT3F-2



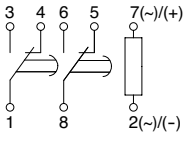
GT3S-1



GT3S-2

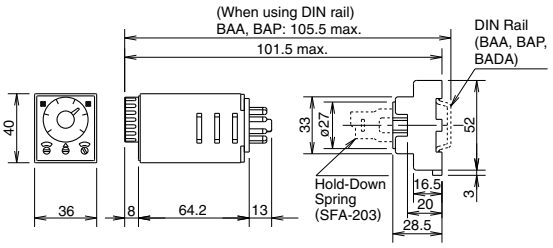


GT3W

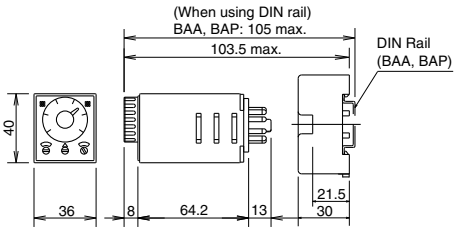


GT3A-4, -5, -6 (11-pin)

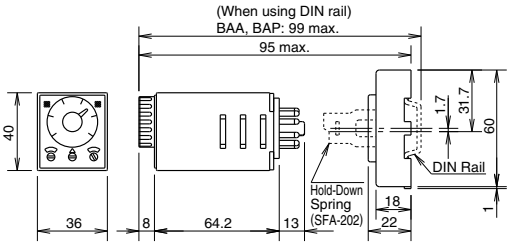
(SR3P-05A Socket)



(SR3P-05C Socket)



(SR3P-06A Socket)

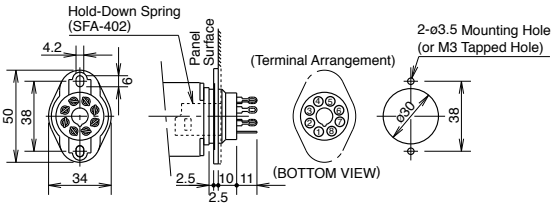


- Calculate the dimensions for mounting, referring to the diagrams in Relay Sockets catalog for SR3P-05A, SR3P-05C, and SR3P-06A.

When Using Panel Mount Socket

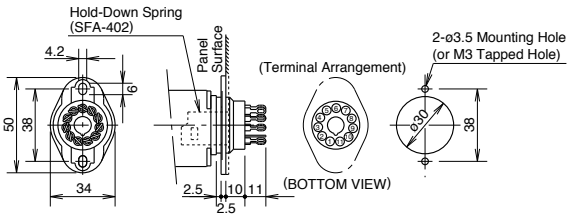
GT3A-1, -2, -3/GT3F/GT3S/GT3W (8-pin)

(SR2P-511 Socket)



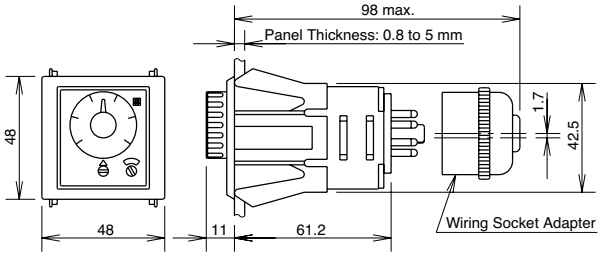
GT3A-4, -5, -6

(SR3P-511 Socket)

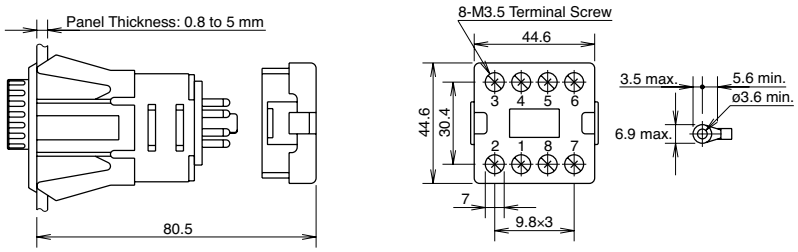


All dimensions in mm.

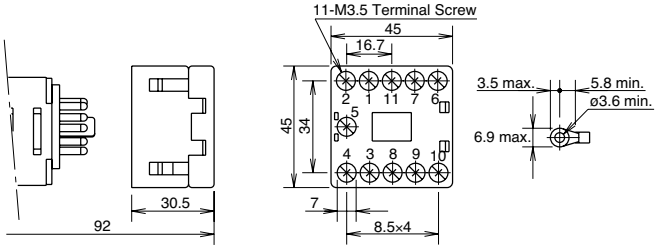
All GT3 Series
When using DIN 48mm-square Panel Mount Adapter
(For 8-pin solder wiring socket adapter: SR6P-S08 and 11-pin solder wiring socket adapter: SR6P-S11)



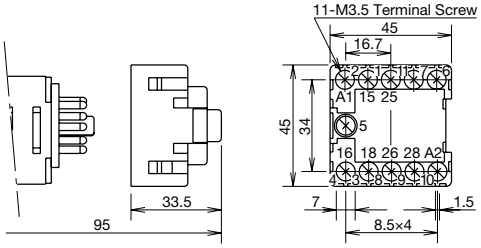
(8-pin Screw Terminal Wiring Socket Adapter: SR6P-M08G)



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

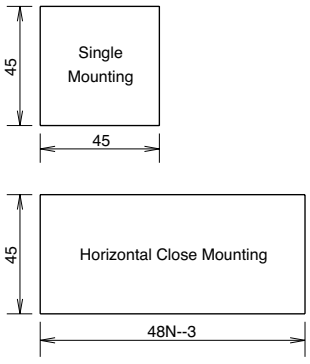


(Finger-safe 11-pin Screw Terminal Wiring Socket Adapter: SR6P-C11)



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

(Mounting Hole Layout)



Tolerance: +0.5 to 0
N: No. of timers mounted

All dimensions in mm.

⚠ Safety Precautions

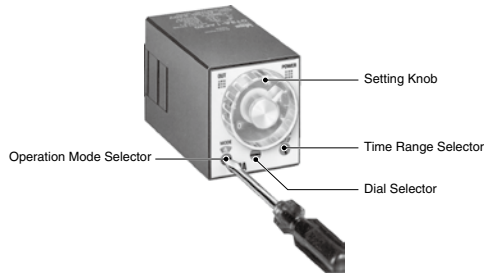
- Be sure to turn off power before mounting, removal, wiring, maintenance and inspection. Otherwise, electric shock or fire may occur.
- Be sure to use timers within rated specification values. Otherwise electric shock or fire may occur.
- Be sure to use wires to meet voltage and current requirements 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
A	ON Delay	ON Delay	Interval ON	One-Shot
B	Interval ON	Cycle	One Shot Cycle	One-Shot ON Delay
C	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
1S	0.1 sec to 1 sec	0.1 sec to 3 sec	0.1 sec to 6 sec	0.2 sec to 18 sec
10S	0.1 sec to 10 sec	0.3 sec to 30 sec	0.6 sec to 60 sec	1.8 sec to 180 sec
10M	6 sec to 10 min	18 sec to 30 min	36 sec to 60 min	108 sec to 180 min
10H	6 min to 10 hours	18 min to 30 hours	36 min to 60 hours	108 min to 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 × 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 × 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.

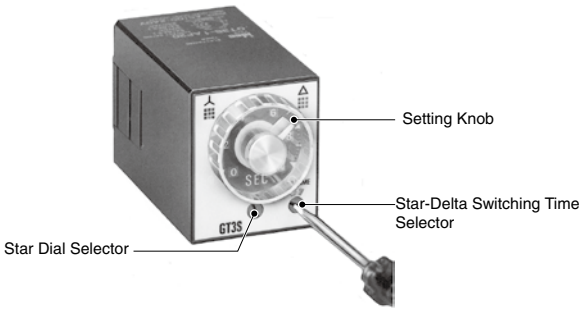
Time Range Determined by Time Range Selector and Dial Selector

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

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 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	0.3 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_1) is 8 sec and the Star-Delta switching time (T_2) 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 sec to 6 hours			0.1 sec to 300 hours		
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range
1S	0 – 1	0.1 sec to 1 sec	1S	0 – 3	0.1 sec to 3 sec
10S		0.3 sec to 10 sec	1M		3.8 sec to 3 min
10M		15 sec to 10 min	1H		3.8 min to 3 hours
1S	0 – 6	0.1 sec to 6 sec	1S	0 – 30	0.6 sec to 30 sec
10S		1.3 sec to 60 sec	1M		38 sec to 30 min
1M		7.5 sec to 1 min	1H		38 min to 30 hours
10M		75 sec to 60 min	10H		6.3 hours to 300 hours
1H		7.5 min to 6 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.

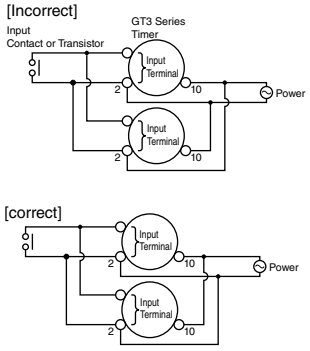
Wiring

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.

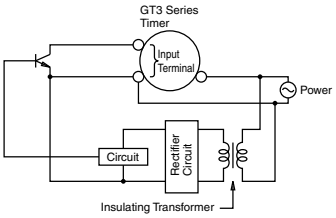
Inputs of GT3A and GT3F

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

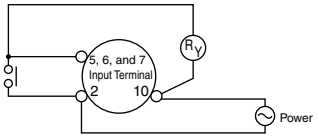
- When connecting the input signal terminals of two or more GT3A timers to the same contact or transistor, the input terminals of the same number should be connected. (Connect Terminals No. 2 in common.)
- Never apply the input signals to two or more GT3F timers using the same contact or transistor.



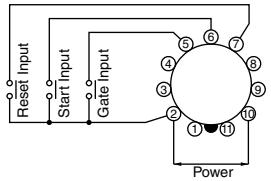
- In a transistor circuit for controlling input signals with its primary and secondary power circuits isolated, do not ground the secondary circuit.



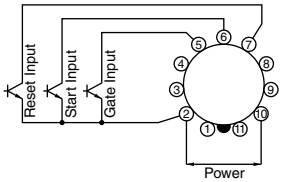
- Do not connect input signal terminals of the GT3A timer to other terminals than No. 2. Never apply voltage to input signal terminals. Otherwise, the internal circuit may be damaged.



- 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.

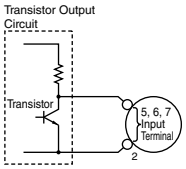


- For transistor input, use transistors with following specifications; V_{CE} = 40V, V_{CES} = 1V or less, I_C = 50mA or more, I_{CBO} = 50µA or less. The resistance should be less than 1kΩ when the transistor is on. When the output transistor switches on, a signal is inputted to the timer.



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.

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

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.

$$= \pm \frac{Tt - T_{20}}{T_{20}} \times 100\ (\%)$$

Tt: Average of operation times at temperature t
T_{20}: Average of operation times at reference temperature (20°C)

Setting Error

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

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

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 ±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.

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 Miniature Electronic Timers

Four Selectable Time Ranges Delayed Output 4PDT/3A or DPDT/5A

- Three operation modes: ON Delay, Interval ON, and Cycle
- 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	c UL us LISTED	UL/c-UL Listed File No. E55996
EN61812-1	CE	EU Low Voltage Directive

Package Quantity: 1

Operation Mode	Contact	Output	Time Ranges (4 ranges selectable)	Operating Voltage	Part No.
ON Delay	DPDT	220V AC/ 30V DC, 5A	1S/10S/1M/10M	100 to 120V AC	GT5Y-2SN1A100
			3S/30S/3M/30M		GT5Y-2SN3A100
			6S/60S/6M/60M		GT5Y-2SN6A100
			1S/10S/1M/10M	200 to 240V AC	GT5Y-2SN1A200
			3S/30S/3M/30M		GT5Y-2SN3A200
			6S/60S/6M/60M		GT5Y-2SN6A200
			1S/10S/1M/10M	12V DC	GT5Y-2SN1D12
			3S/30S/3M/30M		GT5Y-2SN3D12
			6S/60S/6M/60M		GT5Y-2SN6D12
			1S/10S/1M/10M	24V DC	GT5Y-2SN1D24
			3S/30S/3M/30M		GT5Y-2SN3D24
			6S/60S/6M/60M		GT5Y-2SN6D24
	4PDT	220V AC/ 30V DC, 3A	1S/10S/1M/10M	100 to 120V AC	GT5Y-4SN1A100
			3S/30S/3M/30M		GT5Y-4SN3A100
			6S/60S/6M/60M		GT5Y-4SN6A100
			1S/10S/1M/10M	200 to 240V AC	GT5Y-4SN1A200
			3S/30S/3M/30M		GT5Y-4SN3A200
			6S/60S/6M/60M		GT5Y-4SN6A200
			3S/30S/3M/30M	12V DC	GT5Y-4SN3D12
			1S/10S/1M/10M	24V DC	GT5Y-4SN1D24
			3S/30S/3M/30M		GT5Y-4SN3D24
			6S/60S/6M/60M		GT5Y-4SN6D24
Interval ON	DPDT	220V AC/ 30V DC, 5A	1S/10S/1M/10M	100 to 120V AC	GT5Y-2SV1A100
				12V DC	GT5Y-2SV1D12
				24V DC	GT5Y-2SV1D24
	4PDT	220V AC/ 30V DC, 3A		100 to 120V AC	GT5Y-4SV1A100
				24V DC	GT5Y-4SV1D24
Cycle	DPDT	220V AC/ 30V DC, 5A	1S/10S/1M/10M	100 to 120V AC	GT5Y-2SF1A100
	4PDT	220V AC/ 30V DC, 3A		200 to 240V AC	GT5Y-4SF1A200
				24V DC	GT5Y-4SF1D24

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

Accessories

Both SY4S-05C 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
DIN Rail Mount Socket	Socket	SY4S-05A	SY4S-05A	1	For 4PDT contact
		SY4S-05C	SY4S-05C	1	For 4PDT contact
		SY4S-05D	SY4S-05D	1	For 4PDT contact
		SY4S-05DF	SY4S-05DF	1	For 4PDT contact
		SU2S-11L	SU2S-11L	1	For DPDT contact
		SU4S-11L	SU4S-11L	1	For 4PDT contact
		SM2S-05A	SM2S-05A	1	For DPDT contact
		SM2S-05C	SM2S-05C	1	For DPDT contact
		SM2S-05D	SM2S-05D	1	For DPDT contact
		SM2S-05DF	SM2S-05DF	1	For DPDT contact
	Hold-Down Spring	SFA-202	SFA-202PN20	10 sets (20 pcs)	For SY4S-05A, SM2S-05A (2 pcs/set)
		SFA-511	SFA-511PN20	20	For SY4S-05D, SY4S-05DF, SM2S-05D, SM2S-05DF
Panel/ PC Board Mount Socket	Socket	SY4S-51	SY4S-51	1	For 4DPT contact, Solder Terminal
		SY4S-61	SY4S-61	1	For 4DPT contact, PC Board Terminal
		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)

Time Ranges

Code	Scale	Time Range Indication		Time Range
1S	0 to 10	× 0.1	S	0.1 sec to 1 sec
10S	0 to 10	× 1	S	0.2 sec to 10 sec
1M	0 to 10	× 0.1	M	1.2 sec to 1 min
10M	0 to 10	× 1	M	12 sec to 10 min
3S	0 to 3	× 1	S	0.1 sec to 3 sec
30S	0 to 3	× 10	S	0.5 sec to 30 sec
3M	0 to 3	× 1	M	3 sec to 3 min
30M	0 to 3	× 10	M	30 sec to 30 min
6S	0 to 6	× 1	S	0.1 sec to 6 sec
60S	0 to 6	× 10	S	1 sec to 60 sec
6M	0 to 6	× 1	M	6 sec to 6 min
60M	0 to 6	× 10	M	1 min to 60 min

Contact Ratings

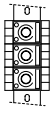
Part No.		GT5Y-4	GT5Y-2
Contact Configuration		4PDT	DPDT
Rated Load	Resistive Load	220V AC, 3A 30V DC, 3A	220V AC, 5A 30V DC, 5A
	Inductive Load cosø=0.3 L/R=7ms	220V AC, 0.8A 30V DC, 1.5A	220V AC, 2A 30V DC, 2.5A
Maximum Switching Voltage		250V AC/125V DC	250V AC/125V DC
Maximum Switching Current		3A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

Note: See Operating Temperature - Maximum Switching Current Characteristics.

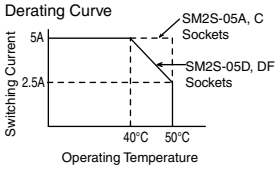
Operating Temperature - Maximum Switching Current Characteristics

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

Mounting Direction



Derating Curve

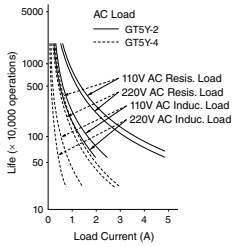


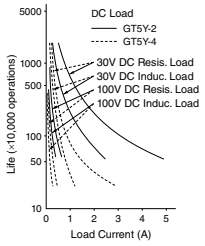
General Specifications

Model		GT5Y-☐SN	GT5Y-☐SV	GT5Y-☐SF
Operation		ON Delay	Interval	Cycle
Pollution Degree		2 (IEC60664-1)		
Overvoltage Category		III (IEC60664-1)		
Rated Operational Voltage	A200	200 to 240V AC (50/60Hz)		
	A100	100 to 120V AC (50/60Hz)		
	D24	24V DC		
	D12	12V DC		
Voltage Range	A200	170 to 264V AC (50/60Hz)		
	A100	85 to 132V AC (50/60Hz)		
	D24	21.6 to 26.4V DC		
	D12	10.8 to 13.2V DC		
Reset Voltage		Rated Voltage × 20% minimum		
Operating Temperature		-10 to +50°C (no freezing and condensation)		
Storage/Transportation Temperature		-30 to +80°C (no freezing and condensation)		
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		100 ms maximum		
Repeat Error		±0.2%, ±20 ms		
Voltage Error		±0.5%, ±20 ms		
Temperature Error		±3%		
Setting Error		±10%		
Insulation Resistance		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: 1000V AC, 1 minute		
Vibration Resistance		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)		
Power Consumption (approx.)	A200	1.6 VA (200V AC/60Hz)		
	A100	1.4 VA (100V AC/60Hz)		
	D24	1.0W		
	D12	0.9W		
Dimensions		27.5H × 21.0W × 58.6D mm		
Weight (approx.)		50g		

Note: See Operating Temperature – Maximum Switching Current Characteristics.

Electrical Life Curves



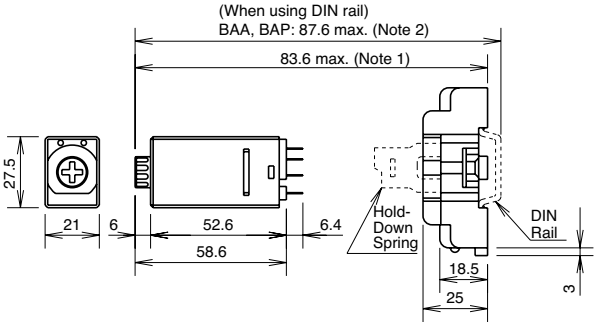


Dimensions

(When using DIN Rail Mount Socket)

GT5Y-4

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

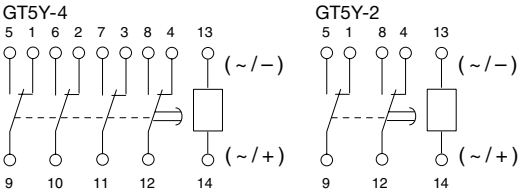


Note 1: SY4S-05A: 83.6 max., SY4S-05C: 83.6 max., SY4S-05D: 88.6 max., SY4S-05DF: 88.6 max.
Note 2: SY4S-05A: 87.8 max., SY4S-05C: 87.8 max., SY4S-05D: 92.8 max., SY4S-05DF: 92.8 max.

Operation Charts and Internal Connections

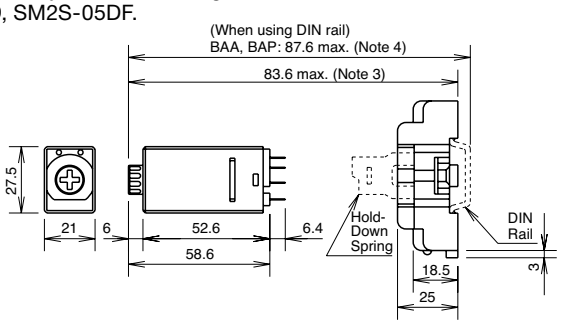
Operation Mode	Item	Operation
ON Delay	Terminal No. 13-14 (POWER)	Set Time
	1-9, 3-11, 2-10, 4-12 (NC)	
	5-9, 7-11, 6-10, 8-12 (NO)	
	POWER Indicator	
	OUT Indicator	
Interval ON	Terminal No. 13-14 (POWER)	Set Time
	1-9, 3-11, 2-10, 4-12 (NC)	
	5-9, 7-11, 6-10, 8-12 (NO)	
	POWER Indicator	
	OUT Indicator	
Cycle	Terminal No. 13-14 (POWER)	Set Time T T
	1-9, 3-11, 2-10, 4-12 (NC)	
	5-9, 7-11, 6-10, 8-12 (NO)	
	POWER Indicator	
	OUT Indicator	

(Internal Connections)



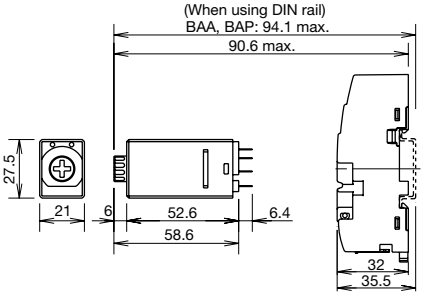
GT5Y-2

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



Note 3: SM2S-05A: 83.6 max., SM2S-05C: 83.6 max., SM2S-05D: 88.6 max., SM2S-05DF: 88.6 max.
Note 4: SM2S-05A: 87.8 max., SM2S-05C: 87.8 max., SM2S-05DN: 92.8 max., SY4S-05DF: 92.8 max.

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



Applicable hold-down spring: SFA-202

GT5P 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		UL/c-UL recognized File No. E55996
CSA C22.2 No.14		CSA File No. LR66809
EN61812-1		EU Low Voltage Directive

Package Quantity: 1

Operation Mode	Con-tact	Output	Time Range	Operating Voltage	Part No. (Ordering No.)
ON Delay	SPDT	24V DC/ 120V AC, 5A 240V AC, 3A	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
			1S	200 to 240V AC	GT5P-N1SA200
			6S		GT5P-N6SA200
			10S		GT5P-N10SA200
			30S		GT5P-N30SA200
			60S		GT5P-N60SA200
			3M		GT5P-N3MA200
			6M		GT5P-N6MA200
			10M		GT5P-N10MA200
			1S	24V AC/DC	GT5P-N1SAD24
			6S		GT5P-N6SAD24
			10S		GT5P-N10SAD24
			60S		GT5P-N60SAD24
			6M		GT5P-N6MAD24
			10M		GT5P-N10MAD24
			10S	12V DC	GT5P-N10SD12
			30S		GT5P-N30SD12
			60S		GT5P-N60SD12
			10M		GT5P-N10MD12
Cycle	SPDT	24V DC/ 120V AC, 5A 240V AC, 3A	3S	100 to 120V AC	GT5P-F3SA100
			10S		GT5P-F10SA100
			3S	200 to 240V AC	GT5P-F3SA200
			10S		GT5P-F10SA200
			3S	24V AC/DC	GT5P-F3SAD24
			10S		GT5P-F10SAD24
			3S	12V DC	GT5P-F3SD12
			10S		GT5P-F10SD12
One Shot	SPDT	24V DC/ 120V AC, 5A 240V AC, 3A	3S	100 to 120V AC	GT5P-P3SA100
			3S	200 to 240V AC	GT5P-P3SA200
			10S		GT5P-P10SA200
			3S	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

Contact Configuration		SPDT
Maximum Switching Voltage		250V AC, 150V DC
Maximum Switching Current		5A
Maximum Switching Power		AC: 960VA DC: 120W
Rated Load	Resistive Load	120V AC / 24V DC, 5A 240V AC, 3A
	Inductive Load cosø = 0.3 - 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)

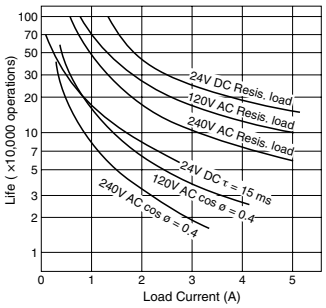
Accessories

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

General Specifications

Model		GT5P-N	GT5P-F	GT5P-P
Operation		ON Delay	Cycle	One Shot
Pollution Degree		2 (IEC60664-1)		
Rated Operational Voltage	A200	200 to 240V AC (50/60Hz)		
	A100	100 to 120V AC (50/60Hz)		
	AD24	24V AC (50Hz/60Hz)/24V DC		
	D12	12V DC		
Voltage Range	A200	170 to 264V AC (50/60Hz)		
	A100	85 to 132V AC (50/60Hz)		
	AD24	20.4 to 26.4V AC (50/60Hz)/21.6 to 26.4V DC		
	D12	10.8 to 13.2V DC		
Operating Temperature		–10 to +50°C (no freezing)		
Storage Temperature		–30 to +70°C (no freezing)		
Operating Humidity		35 to 85% RH (no condensation)		
Storage Humidity		30 to 85% RH (no condensation)		
Altitude		0 to 2000m (operation) 0 to 3000m (transportation)		
Reset Time		100 ms maximum		
Repeat Error		±0.2%, ±10 ms		
Voltage Error		±0.5%, ±20 ms		
Temperature Error		±3%		
Setting Error		±10%		
Insulation Resistance		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		10 to 55Hz, amplitude 0.75 mm, 2 hours each in 3 directions		
Shock Resistance		Operating extremes: 98 m/s², Damage limits: 490 m/s²		
Power Consumption (approx.)	A200	3.9 VA (60Hz)		5.6 VA (60Hz)
	A100	2.3 VA (60Hz)		2.9 VA (60Hz)
	AD24	1.3 VA (60Hz)/0.5W		1.2 VA (60Hz)/0.5W
	D12	0.6W		0.6W
Dimensions		36H × 29W × 81.5D mm		
Weight (approx.)		49g		

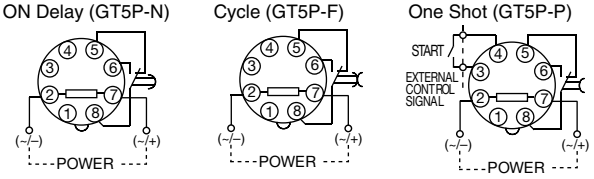
Electrical Life Curves



Operation Charts and Internal Connections

Operation Mode	Item	Operation
On Delay	Terminal No. 2-7 (POWER)	Set Time
	5-8 (NC)	
	6-8 (NO)	
	POWER Indicator	
	OUT Indicator	
Cycle	Terminal No. 2-7 (POWER)	Set Time T T
	5-8 (NC)	
	6-8 (NO)	
	POWER Indicator	
	OUT Indicator	
One Shot	Terminal No. 13-14 (POWER)	
	3-4 (Start Input)	50ms minimum
	5-8 (NC)	
	6-8 (NO)	
	POWER Indicator	
	OUT Indicator	

(Internal Connections)

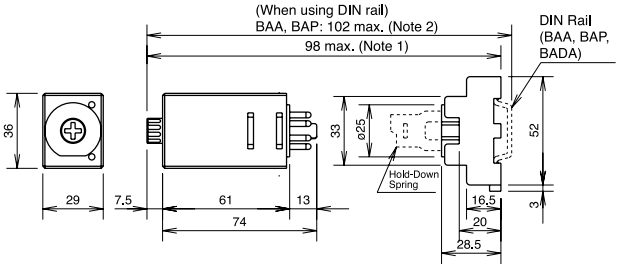


Dimensions

(When using DIN Rail Mount Socket)

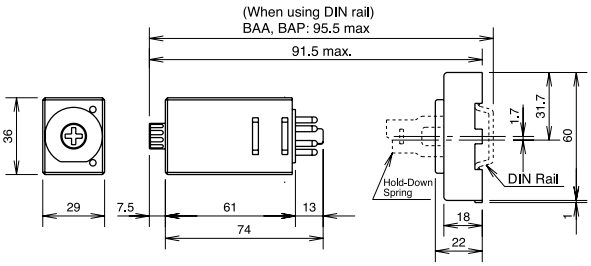
SR2P-05A

For SR2P-05C, see Relay Sockets catalog.



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

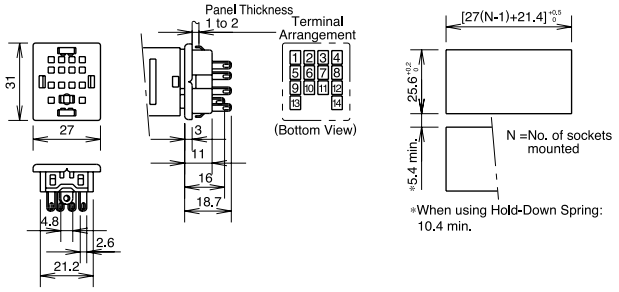
SR2P-06B



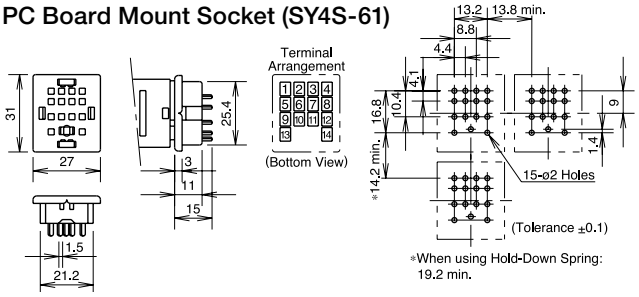
Dimensions / Mounting Hole Layout (for Panel/PC Board Mount Socket)

1. GT5Y-4

Panel Mount Socket (SY4S-51)

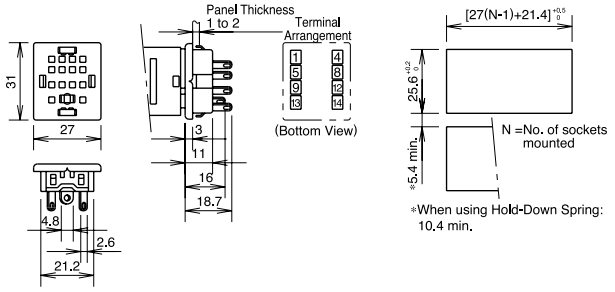


PC Board Mount Socket (SY4S-61)

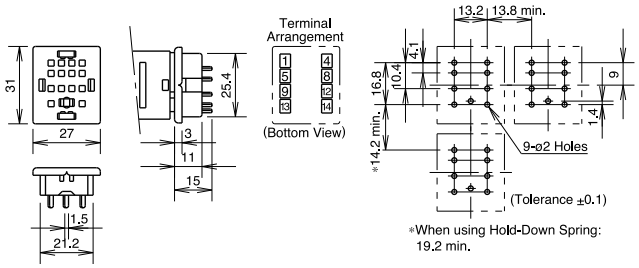


2. GT5Y-2

Panel Mount Socket (SM2S-51)

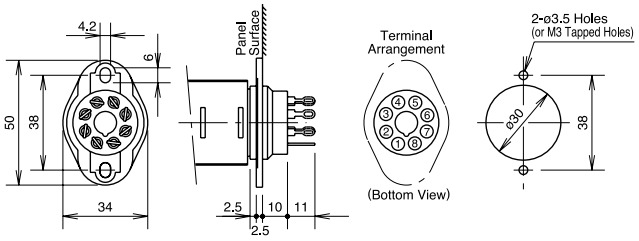


PC Board Mount Socket (SM2S-61)

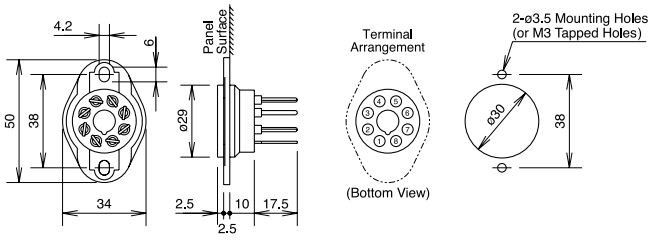


3. GT5P

Solder Terminal (SR2P-511)

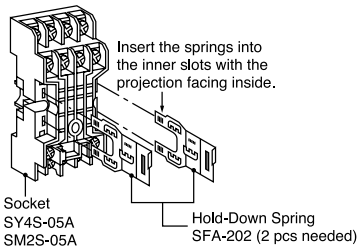


Wire Wrap Terminal (SR2P-70)



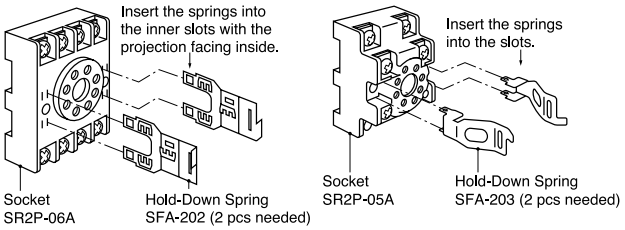
Installation of Hold-Down Springs

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



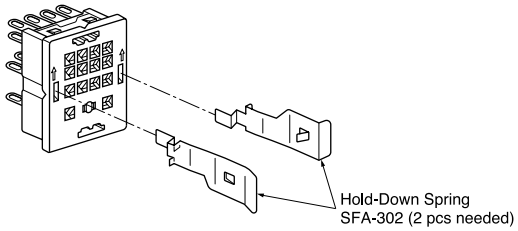
Note: Once installed into sockets, the hold-down springs cannot be removed.

Recommended Tightening Torque and Terminal Screw

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

Panel/PC Board Mount Socket

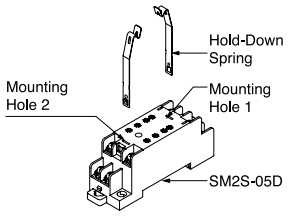
The SFA-302 Hold-Down Springs can be installed to the SY4S-51, SY4S-61, SM2S-51, and SM2S-61 sockets.

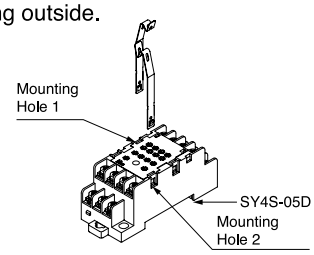


Hold-down springs cannot be installed to SR2P-511 and SR2P-70 panel mount sockets.

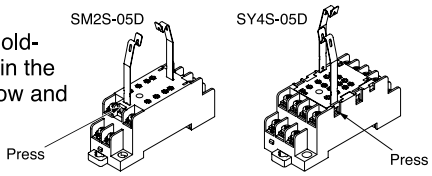
Installation/Removal of Hold-Down Springs

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



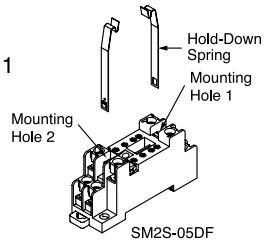


(Removal)
Press the projections of Hold-Down Springs (SFA-511) in the direction shown in the arrow and pull upward to remove.

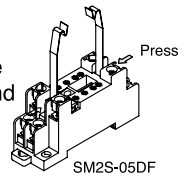


Installation/Removal of Hold-Down Springs

(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.

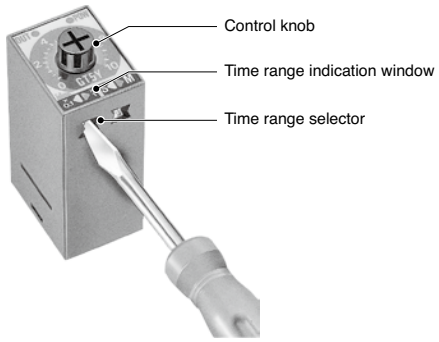
⚠ Safety Precautions

- 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

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

Voltage Error

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

Tv: Average of measured values at voltage V
Tr: Average of measured values at the raged voltage

Temperature Error

$$= \pm \frac{Tt - T_{20}}{T_{20}} \times 100\ (\%)$$

Tt: Average of measured values at t°C
T_{20}: Average of measured values at 20°C

Setting Error

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

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 kΩ maximum, Open: 100 kΩ minimum) The input terminals should not be connected to a ground wire of other devices.
3. 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	c UL us LISTED	UL/c-UL Listed File No. E204716
EN61812-1	CE	EU Low Voltage Directive
	TÜV	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

Time Ranges

Time Range Code	Magnification	Time Range
10H	1S	0.1 sec. to 1 sec.
	10S	1 sec. to 10 sec.
	1M	0.1 min. to 1 min.
	10M	1 min. to 10 min.
	1H	0.1 hour to 1 hour
	10H	1 hour to 10 hours
30H	1S	0.3 sec. to 3 sec.
	10S	3 sec. to 30 sec.
	1M	0.3 min. to 3 min.
	10M	3 min. to 30 min.
	1H	0.3 hour to 3 hour
	10H	3 hour to 30 hours

10H

30H

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

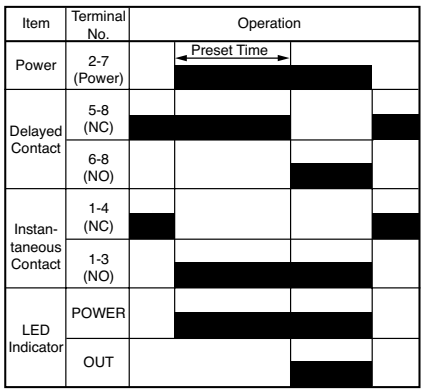
GE1A – □ □ □

- Rated Voltage Code: A220: 220 to 240V AC; A200: 200 to 220V AC; A110: 110 to 120V AC; A100: 100 to 110V AC; AD24: 24V AC/24V DC
- Time Range Code: 10H: 0.1S to 10H; 30H: 0.3S to 30H
- Contact Code: B: Instantenous SPDT + Delayed SPDT; C: Delayed DPDT

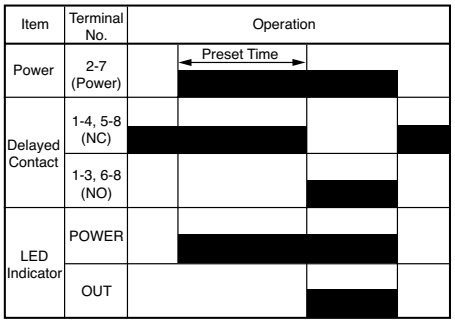
Specifications

Model		GE1A-B	GE1A-C
Operation Mode		ON Delay	
Time Range		0.1 second to 30 hours	
Rated Operational Voltage		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	
Voltage Error		±0.5% ±10 ms maximum	
Temperature Error		±3% maximum	
Setting Error		±10% maximum	
Insulation Resistance		100 MΩ minimum (500V DC megger)	
Dielectric Strength	Between power and output terminals	2,000V AC, 1 minute	
	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 Operating extremes: Amplitude 0.5 mm, 10 to 55 Hz	
Shock Resistance	Damage limits	Panel mount: 490 m/s² (approx. 50G) Surface mount: 249 m/s² (approx. 25G)	
	Operating extremes	98 m/s² (approx. 10G)	
Power Consumption	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)
	110V AC	3.8 VA (60 Hz), 3.3 VA (50 Hz)	3.5 VA (60 Hz), 3.0 VA (50 Hz)
	100V AC	3.5 VA (60 Hz), 3.0 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
Weight (Approx.)		101g	95g

GE1A-B

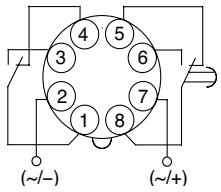


GE1A-C

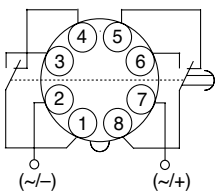


Internal Connections

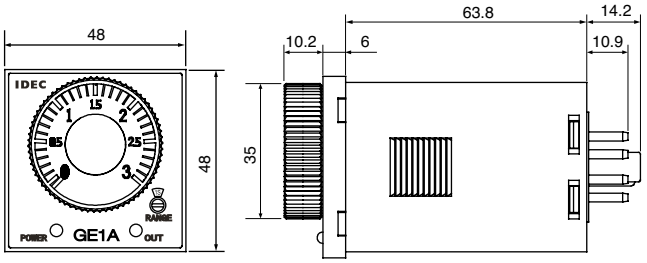
GE1A-B



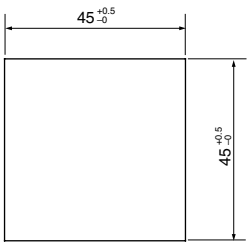
GE1A-C



Dimensions

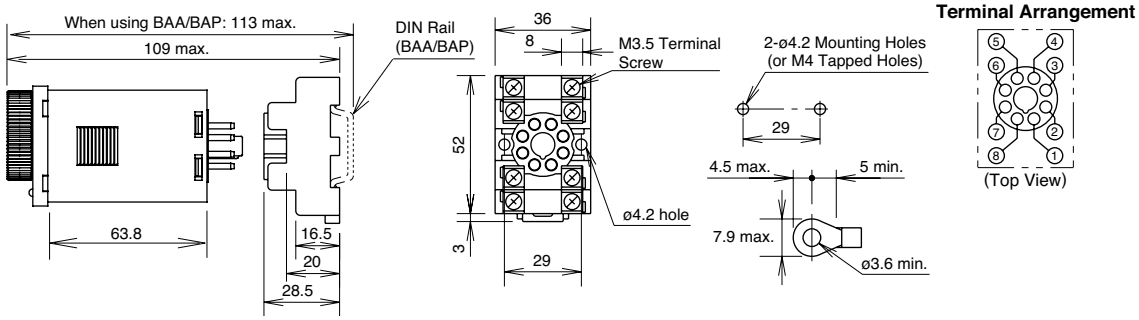


Panel Cut-out

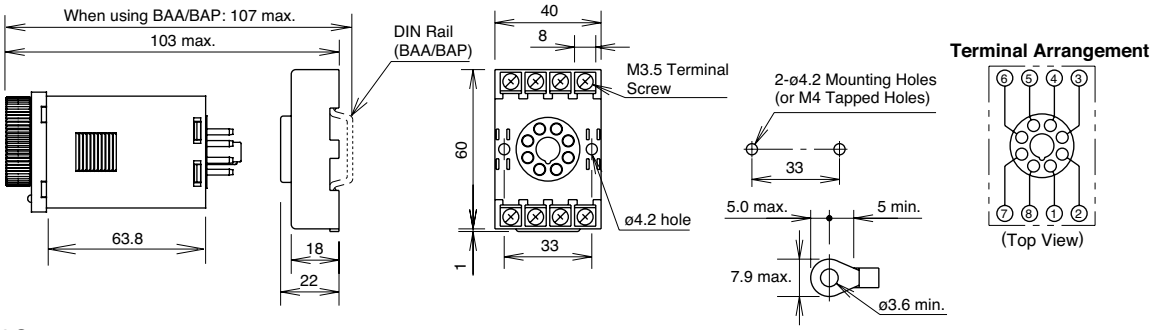


Applicable Sockets

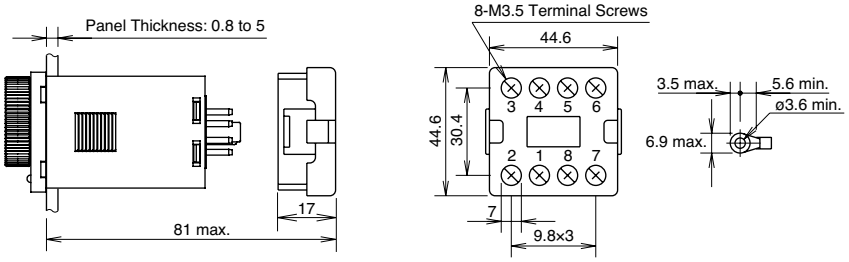
SR2P-05A (not UL/c-UL listed)



SR2P-06A



SR6P-M08G



All dimensions in mm.

Accessories

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

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