

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: $\pm 0.2\%$ maximum
- Miniature size
- LED indicators for output and power
- Complies with safety standards.
UL/c-UL listed. EN compliant.



Type List

Package Quantity: 1

Operation Mode	Contact	Output	Time Ranges (4 ranges selectable)	Operating Voltage	Type 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
	4PDT	220V AC/ 30V DC, 3A	1S/10S/1M/10M	24V DC	GT5Y-2SN1D24
			3S/30S/3M/30M		GT5Y-2SN3D24
			6S/60S/6M/60M		GT5Y-2SN6D24
			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
Interval ON	DPDT	220V AC/ 30V DC, 5A	1S/10S/1M/10M	100 to 120V AC	GT5Y-2SV1A100
				12V DC	GT5Y-2SV1D12
	4PDT	220V AC/ 30V DC, 3A		24V DC	GT5Y-2SV1D24
				100 to 120V AC	GT5Y-4SV1A100
Cycle	DPDT	220V AC/ 30V DC, 5A		24V DC	GT5Y-4SV1D24
				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 Type No.

Item		Type No.	Ordering Type 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
		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	$\times 0.1$	S	0.1 sec to 1 sec
10S	0 to 10	$\times 1$	S	0.2 sec to 10 sec
1M	0 to 10	$\times 0.1$	M	1.2 sec to 1 min
10M	0 to 10	$\times 1$	M	12 sec to 10 min
3S	0 to 3	$\times 1$	S	0.1 sec to 3 sec
30S	0 to 3	$\times 10$	S	0.5 sec to 30 sec
3M	0 to 3	$\times 1$	M	3 sec to 3 min
30M	0 to 3	$\times 10$	M	30 sec to 30 min
6S	0 to 6	$\times 1$	S	0.1 sec to 6 sec
60S	0 to 6	$\times 10$	S	1 sec to 60 sec
6M	0 to 6	$\times 1$	M	6 sec to 6 min
60M	0 to 6	$\times 10$	M	1 min to 60 min

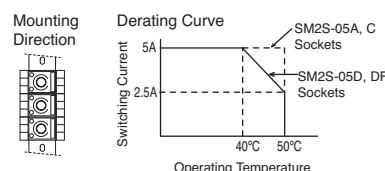
Contact Ratings

Type 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 cosφ=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 cosφ= 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.

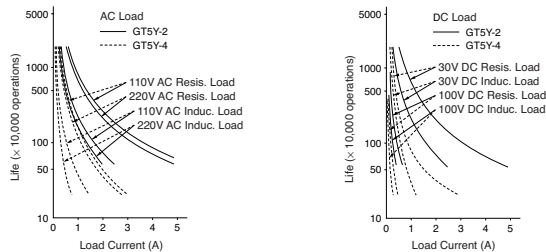


General Specifications

Type	GT5Y-□SN		GT5Y-□SV	GT5Y-□SF
Operation Type	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)			
Altitude	0 to 2000m (operation) 0 to 3000m (transportation)			
Reset Time	100 ms maximum			
Repeat Error	±0.2%, ±20 ms maximum			
Voltage Error	±0.5%, ±20 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: 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/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.)	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

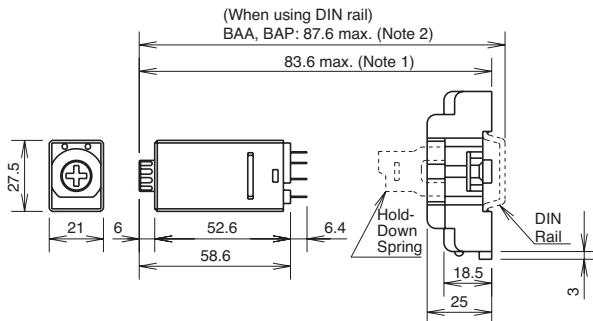


Dimensions

(When using DIN Rail Mount Socket)

GT5Y-4

See page 1113 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.

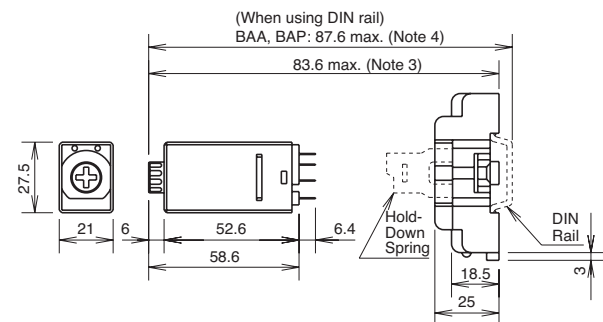
Note 2: SY4S-05A: 87.8 max., SY4S-05C: 87.8 max., SY4S-05D: 92.8 max., SY4S-05DF: 92.8 max.

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
	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-4: 5 1 6 2 7 3 8 4 13 (~/ -) 9 10 11 12 14 (~/ +) - GT5Y-4: 5 1 8 4 13 (~/ -) 9 12 14 (~/ +)		

GT5Y-2

See page 1112 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.

GT5P Miniature Electronic Timers

Economic Efficiency Focused

Delayed Output SPDT/5A

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



Type No.

Package Quantity: 1

Operation Mode	Contact	Output	Time Range	Operating Voltage	Type No. (Order 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	100 to 120V AC	GT5P-F10SA100
			3S	200 to 240V AC	GT5P-F3SA200
			10S	200 to 240V AC	GT5P-F10SA200
			3S	24V AC/DC	GT5P-F3SAD24
			10S	24V AC/DC	GT5P-F10SAD24
			3S	12V DC	GT5P-F3SD12
			10S	12V DC	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	200 to 240V AC	GT5P-P10SA200
			3S	24V AC/DC	GT5P-P3SAD24
			10S	24V AC/DC	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 $\cos\phi = 0.3 - 0.4$ 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)

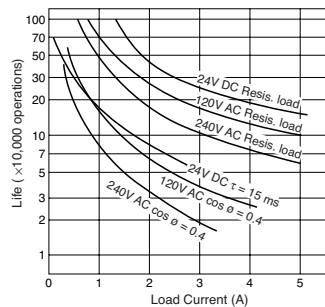
Accessories

	Item	Type No.	Ordering Type 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

Type	GT5P-N		GT5P-F	GT5P-P
Operation Type	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/Transportation Temperature	-30 to +70°C (no freezing)			
Operating 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%, ±10 ms maximum			
Voltage Error	±0.5%, ±20 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: 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/s ² , Damage limits: 490 m/s ²			
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

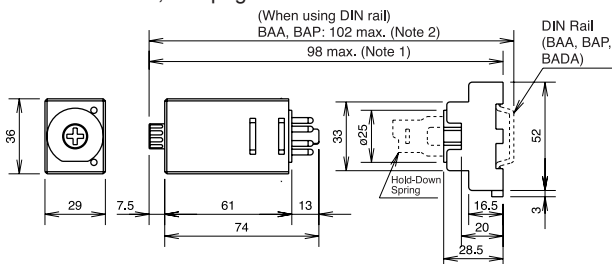


Dimensions

(When using DIN Rail Mount Socket)

•SR2P-05A

For SR2P-05C, see page 1109.



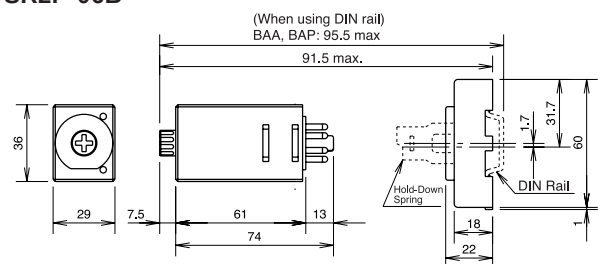
Note 1: SR2P-05C: 99.5 max.

Note 2: SR2P-05C: 103.5 max.

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
	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)		
ON Delay/Cycle		
One Shot		

•SR2P-06B



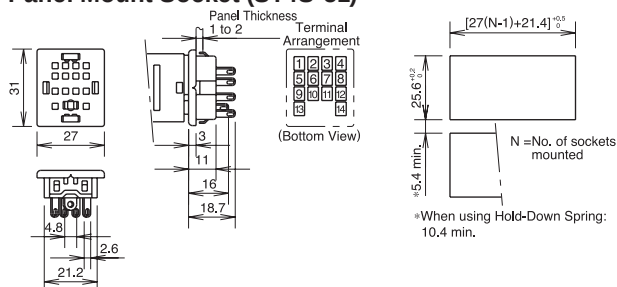
Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm. Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

GT5Y/GT5P Miniature Electronic Timers [Common]

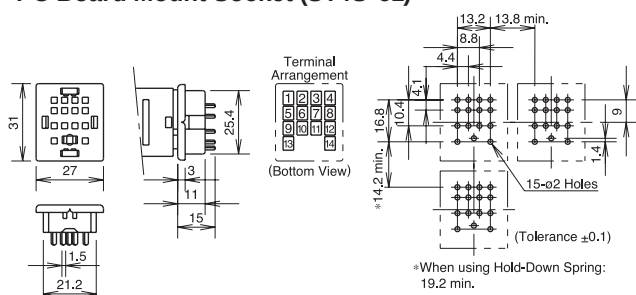
Dimensions / Mounting Hole Layout (for Panel/PC Board Mount Socket)

1. GT5Y-4

• Panel Mount Socket (SY4S-51)

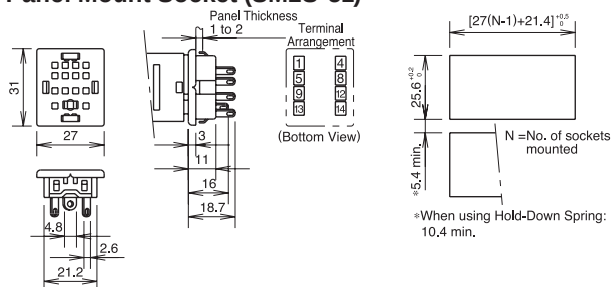


• PC Board Mount Socket (SY4S-61)

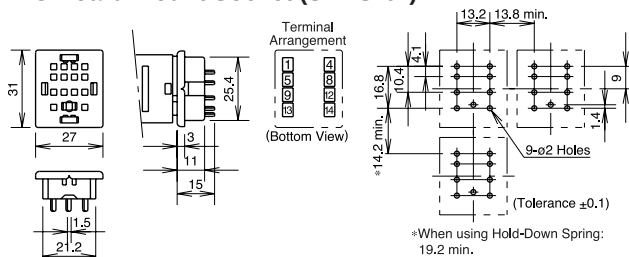


2. GT5Y-2

• Panel Mount Socket (SM2S-51)

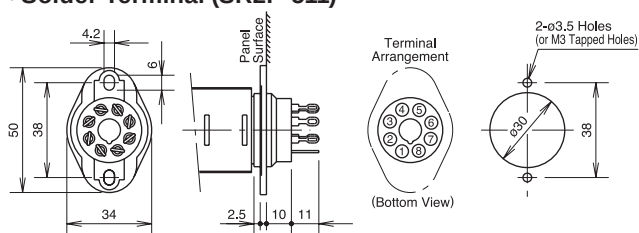


• PC Board Mount Socket (SM2S-61)

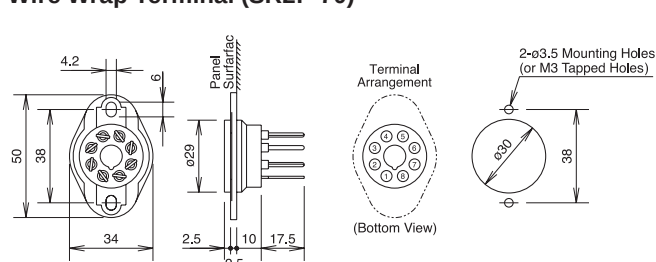


3. GT5P

• Solder Terminal (SR2P-511)

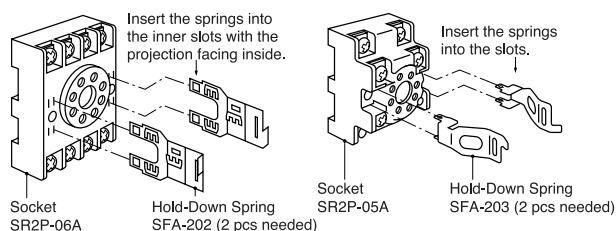
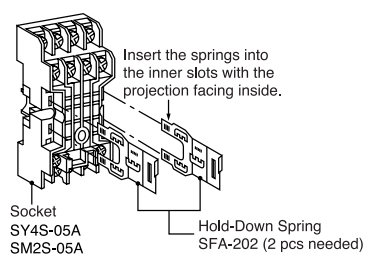


• Wire Wrap Terminal (SR2P-70)



Installation of Hold-Down Springs

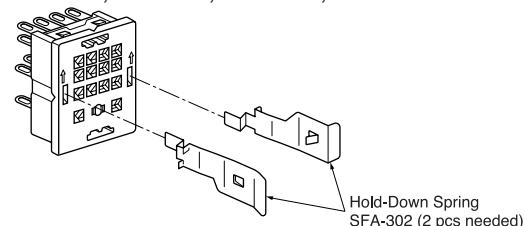
• DIN Rail Mount Socket



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

• 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.

GT5Y/GT5P Miniature Electronic Timers [Common]



Safety Precautions

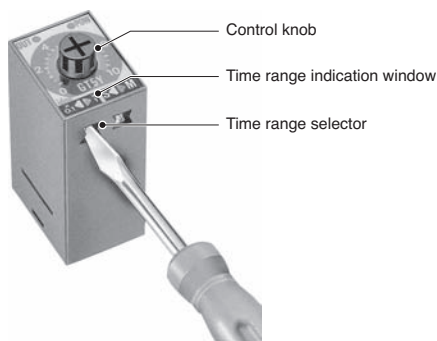
- Be sure to turn off power before mounting, removal, wiring, maintenance and inspection. Otherwise, electric shock or fire could occur.
- Be sure to use timers within rated specification values. Otherwise, electric shock or fire may occur.
- Be sure to use wires to meet voltage and current requirements 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**

$$= \pm \frac{T_v - T_r}{T_r} \times 100 (\%)$$

Tv: Average of measured values at voltage V
Tr: Average of measured values at the rated voltage
- **Temperature Error**

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

Tt: Average of measured values at t°C
T20: 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, benzene, 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.

Flush Silhouette

Control Units

Display Lights

Display Units

Safety Products

Terminal Blocks

Comm. Terminals

AS-Interface

Relays & Timers

Sockets

Circuit Protectors

Power Supplies

PLCs & SmartRelay

Operator Interfaces

Sensors

Control Stations

Explosion Protection

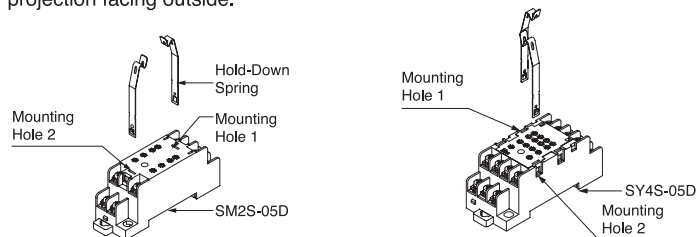
References

GT5Y/GT5P Miniature Electronic Timers [Common]

• Installation/Removal of Hold-Down Springs

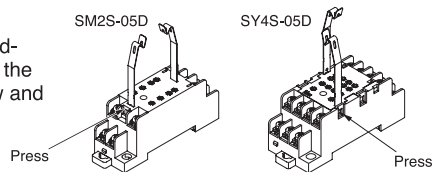
(Installation)

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



(Removal)

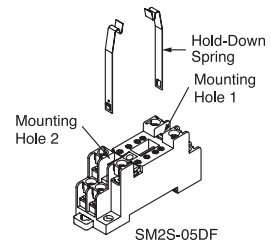
Press the projections of Hold-Down Springs (SFA-511) in the direction shown in the arrow and pull upward to remove.



• Installation/Removal of Hold-Down Springs

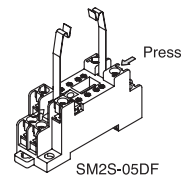
(Installation)

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.