

GT5P Series — ON Delay Timers

Key features:

- SPDT, 5A contacts
- 8-pin, octal base
- 9 time ranges
- Repeat error $\pm 0.2\%$ maximum
- Control settings by hand or screwdriver
- Power ON and timing out LED indicators
- Uses the same sockets and hold down clips as IDEC's RR2P 8-pin relays



UL Recognized
File No. E55996



CSA Certified
File No. LR66809



Specifications

Rated Operating Voltage		100 to 120V AC (50/60Hz) 200 to 240V AC (50/60Hz) 24V AC/DC 12V DC
Voltage Tolerance		AC type: $\pm 15\%$ DC type: $\pm 10\%$ (ripple 10% maximum)
Contact Rating	Resistive load	120V AC/24V DC, 5A 240V AC, 3A
	Inductive load	240V AC, 0.8A 120V AC, 1.4A 24V DC, 1.7A
Allowable Contact Power (resistive load)		960VA AC 120W DC
Contact Form		SPDT
Voltage		250V AC, 150V DC
Repeat Error		$\pm 0.2\% \pm 10\text{msec}$
Voltage Error		$\pm 0.5\% \pm 10\text{msec}$
Temperature Error		$\pm 3\%$ maximum (over -10 to 50°C , reference temperature 20°C)
Setting Error		$\pm 10\%$ maximum
Reset Time		When turning power off after time up: 0.1 sec maximum When turning power off before time up: 1 sec maximum
Insulation Resistance		100M Ω minimum
Dielectric Strength		2000V AC, 1 minute (except between contacts of the same pole)
Vibration Resistance		100N (approximate 10G)
Shock Resistance		Operating extremes: 100N (approximate 10G) Damage limits: 500N (approximate 50G)
Power Consumption		100V AC type: 1.5VA (at 50Hz) 200V AC type: 1.6VA (at 50Hz) 24V DC type: 0.9W
Electrical Life		100,000 operations minimum (at rated load)
Mechanical Life		20,000,000 operations minimum
Operating Temperature		-10 to $+50^\circ\text{C}$
Operating Humidity		45 to 85% RH



1. Inductive load (reference), $\cos \phi = 0.3$ to 0.4 or $L/R = 15\text{msec}$.
2. Minimum applicable load: 5VDC/10mA (reference).

Part Numbering List

Mode of Operation	Contact	Output	Rated Voltage	Time Range	Complete Part No.
ON-Delay	SPDT	24V DC/120V AC, 5A 240V AC, 3A	100 to 120V AC	1S	—
				3S	GT5P-N3SA100
				6S	—
				10S	GT5P-N10SA100
				30S	GT5P-N30SA100
				60S	GT5P-N60SA100
				3M	GT5P-N3MA100
				6M	GT5P-N6MA100
				10M	GT5P-N10MA100
			200 to 240V AC	1S	GT5P-N1SA200
				3S	—
				6S	GT5P-N6SA200
				10S	GT5P-N10SA200
				30S	GT5P-N30SA200
				60S	GT5P-N60SA200
				3M	GT5P-N3MA200
				6M	GT5P-N6MA200
				10M	GT5P-N10MA200
			24V AC/DC	1S	GT5P-N1SAD24
				3S	—
				6S	GT5P-N6SAD24
				10S	GT5P-N10SAD24
				30S	—
				60S	GT5P-N60SAD24
				3M	—
				6M	GT5P-N6MAD24
				10M	GT5P-N10MAD24
			12V DC	1S	—
				3S	—
				6S	—
				10S	GT5P-N10SD12
				30S	GT5P-N30SD12
				60S	GT5P-N60SD12
				3M	—
				6M	—
				10M	GT5P-N10MD12

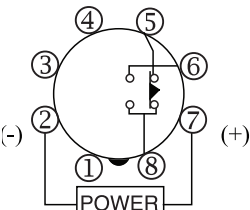


For sockets and accessories, see page 941.

Timing Diagram/Schematic/Electrical Life Curves

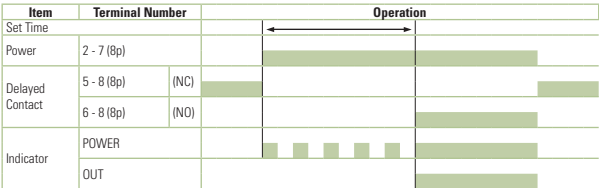
SPDT

Operation Mode

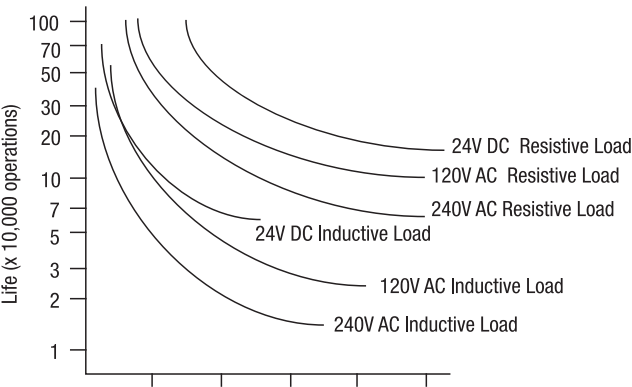


Do not apply voltage to terminals 1, 3, and 4.

ON-Delay



Electrical Life Curves



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

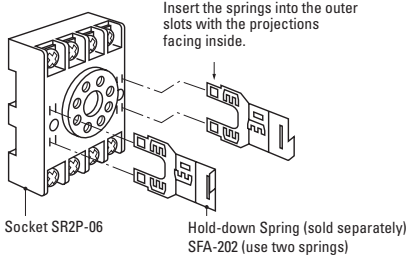
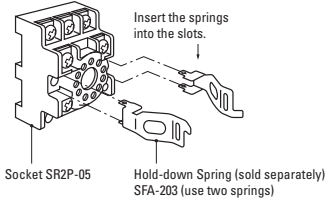
Terminal Blocks

Circuit Breakers

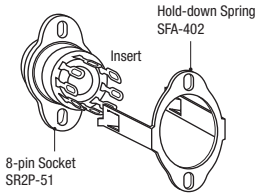
Accessories
Mounting

Mounting Accessories and Sockets					Applicable Hold-Down Springs	
	Style	Appearance	Use with Timers	Part No.	Appearance	Part No.
DIN Rail/ Surface Mounting Accessories	8-Pin Screw Terminal (dual tier)		GT5P	SR2P-05		SFA-203
	8-Pin Fingersafe Socket		GT5P	SR2P-05C		
	8-Pin Screw Terminal		GT5P	SR2P-06		SFA-202
	DIN Mounting Rail Length 1000mm		—	BNDN1000		
Part Numbers: Mounting Accessories and Sockets					Applicable Hold-Down Springs	
Mounting Accessories	8-Pin Solder Terminal			SR2P-51		SFA-402

Installation of Hold-Down Springs
DIN Rail Mount Socket



Panel Mount Socket



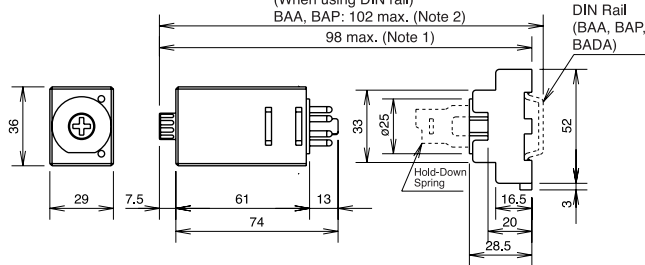
Dimensions

GT5P Timer, 8-Pin with SR2P-05

(When using DIN rail)

BAA, BAP: 102 max. (Note 2)

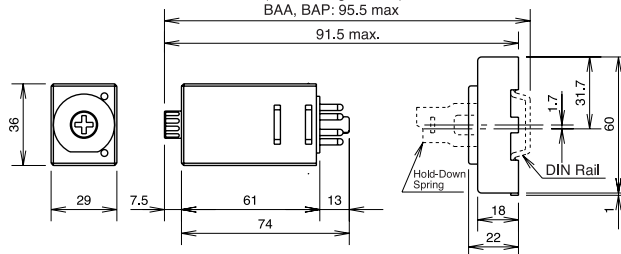
98 max. (Note 1)

**GT5P Timer, 8-Pin with SR2P-06**

(When using DIN rail)

BAA, BAP: 95.5 max

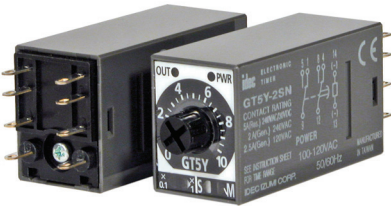
91.5 max.



GT5Y Series – ON Delay Timers

Key features:

- 4PDT, 3A or DPDT, 5A contacts
- 4 time ranges
- Repeat error ±0.2% maximum
- Control settings by hand or screwdriver
- Power ON and timing out LED indicators
- Uses the same sockets and hold-down clips as IDEC’s RY4S and RU series relays



UL, c-UL Listed
File No. E55996

Specifications

		GT5Y-2	GT5Y-4
Rated Operating Voltage		100 to 120V AC (50/60Hz) 200 to 240V AC (50/60Hz) 24V DC 24V AC 12V DC	
Contact Form		DPDT	4PDT
Rated Load	Resistive Load	220V AC, 5A 30V DC, 5A	220V AC, 3A 30V DC, 3A
	Inductive Load	220V AC, 2A 30V DC, 2.5A	220V AC, 0.8A 30V DC, 1.5A
Allowable Contact Power	Resistive Load	1100VA AC 150W DC	660VA AC 90W DC
	Inductive Load Cos ϕ = 0.3 L/R = 7msec	440VA AC 75W DC	176VA AC 45W DC
Allowable Voltage		250V AC, 125V DC	
Allowable Current		5A	3A
Temperature Error		±3% maximum (over -10 to 50°C, reference temperature 20°C)	
Setting Error		±10% maximum	
Reset Time		When turning power off after time up: 0.1 second maximum When turning power off before time up: 1 second maximum	
Insulation Resistance		100M Ω minimum	
Dielectric Strength		2,000V AC, 1 minute (except between contacts of the same pole)	
Vibration Resistance		100N (approximate 10G)	
Shock Resistance		Operating extremes: 100N (approximate 10G) Damage limits: 500N (approximate 50G)	
Power Consumption		100V AC type: 1.5VA (at 50Hz) 200V AC type: 1.6VA (at 50Hz) 24V DC type: 0.9W	
Electrical Life		500,000 operations minimum (220V AC, 5A)	200,000 operations minimum (110V AC, 3A)
Mechanical Life		50,000,000 operations minimum	
Operating Temperature		-10 to +50°C	
Operating Humidity		45 to 85% RH	

1. Minimum applicable load: GT5Y-2: 5V DC, 20mA (reference value); GT5Y-4: 5V DC, 10mA (reference value).
2. Inductive load: cos ϕ = 0.3, L/R = 7msec.

Part Numbering List

Mode of Operation	Contact	Output	Rated Voltage	Time Range	Complete Part No.
ON-Delay	DPDT	220V AC/ 30V DC, 5A	100 to 120V AC	1S/10S/1M/10M	GT5Y-2SN1A100
				3S/30S/3M/30M	GT5Y-2SN3A100
				6S/60S/6M/60M	GT5Y-2SN6A100
			200 to 240V AC	1S/10S/1M/10M	GT5Y-2SN1A200
				3S/30S/3M/30M	GT5Y-2SN3A200
				6S/60S/6M/60M	GT5Y-2SN6A200
			12V DC	1S/10S/1M/10M	GT5Y-2SN1D12
				3S/30S/3M/30M	GT5Y-2SN3D12
				6S/60S/6M/60M	GT5Y-2SN6D12
			24V DC	1S/10S/1M/10M	GT5Y-2SN1D24
				3S/30S/3M/30M	GT5Y-2SN3D24
				6S/60S/6M/60M	GT5Y-2SN6D24
			24V AC	1S/10S/1M/10M	GT5Y-2SN1A24
				3S/30S/3M/30M	GT5Y-2SN3A24
				6S/60S/6M/60M	GT5Y-2SN6A24
	4PDT	220V AC/30V DC, 3A	100 to 120V AC	1S/10S/1M/10M	GT5Y-4SN1A100
				3S/30S/3M/30M	GT5Y-4SN3A100
				6S/60S/6M/60M	GT5Y-4SN6A100
			200 to 240V AC	1S/10S/1M/10M	GT5Y-4SN1A200
				3S/30S/3M/30M	GT5Y-4SN3A200
				6S/60S/6M/60M	GT5Y-4SN6A200
			12V DC	1S/10S/1M/10M	—
				3S/30S/3M/30M	GT5Y-4SN3D12
				6S/60S/6M/60M	—
			24V DC	1S/10S/1M/10M	GT5Y-4SN1D24
				3S/30S/3M/30M	GT5Y-4SN3D24
				6S/60S/6M/60M	GT5Y-4SN6D24
			24V AC	1S/10S/1M/10M	GT5Y-4SN1A24
				3S/30S/3M/30M	GT5Y-4SN3A24
				6S/60S/6M/60M	GT5Y-4SN6A24



For sockets and accessories, see page 941.

Timing Ranges

Code	Scale	Time Range Indication		Time Range
1S	0 to 10	x 0.1	S	0.1 second to 1 second
10S		x 1	S	0.2 second to 10 seconds
1M		x 0.1	M	1.2 seconds to 1 minute
10M		x 1	M	12 seconds to 10 minutes
3S	0 to 3	x 1	S	0.1 second to 3 seconds
30S		x 10	S	0.5 second to 30 seconds
3M		x 1	M	3 seconds to 3 minutes
30M		x 10	M	30 seconds to 30 minutes
6S	0 to 6	x 1	S	0.1 second to 6 seconds
60S		x 10	S	1 second to 60 seconds
6M		x 1	M	6 seconds to 6 minutes
60M		x 10	M	1 minute to 60 minutes

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

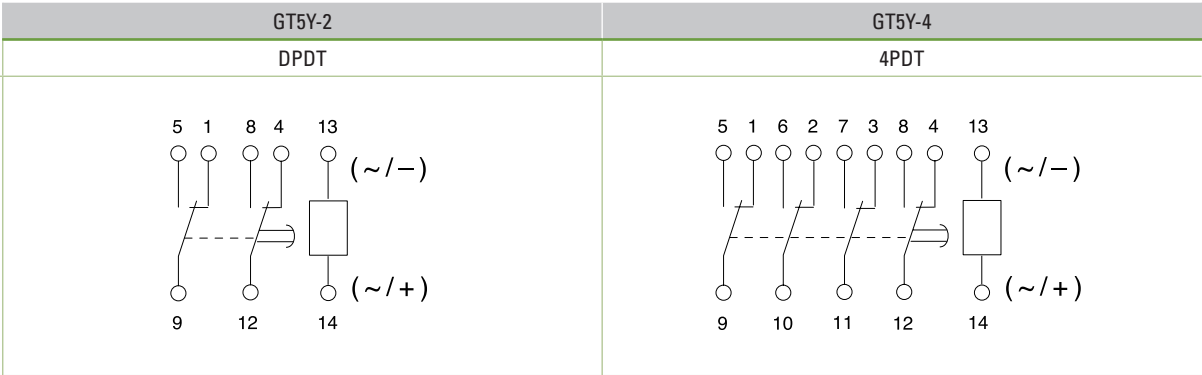
Timers

Contactors

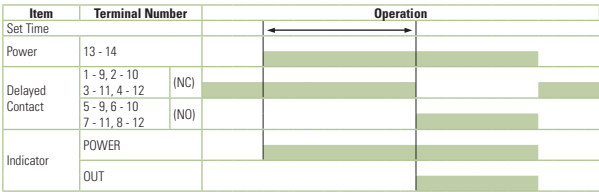
Terminal Blocks

Circuit Breakers

Timing Diagram/Schematics/Electrical Life Curves

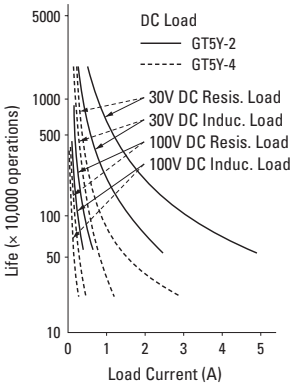
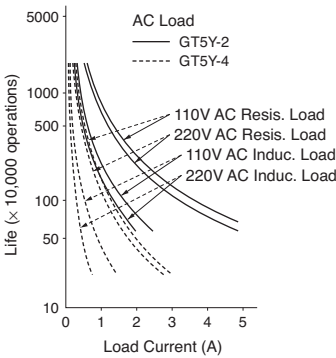


Operation Mode:
ON-Delay



For an explanation of timing modes, see page page 940.

Electrical Life Curves

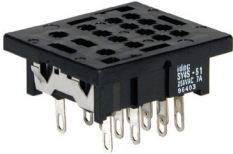
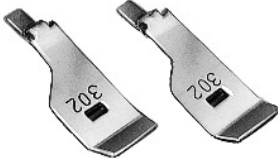


Accessories2

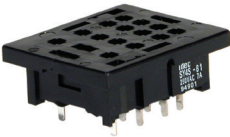
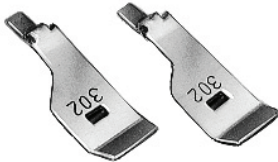
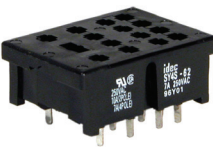
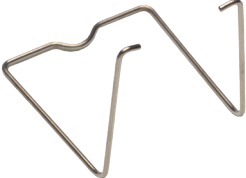
DIN Rail Mounting Accessories
DIN Rail/Surface Mount Sockets and Hold-Down Springs

DIN Rail Mount Socket			Applicable Hold-Down Springs	
Style	Appearance	Part No.	Appearance	Part No.
14-Blade Screw Terminal		SY4S-05		SFA-202
14-Blade Screw Terminal (fingersafe)		SY4S-05C		
DIN Mounting Rail Length 1000mm		BNDN1000		

Panel Mounting Accessories
Part Numbers: Panel Mount Socket and Hold-Down Springs

Panel Mount Socket			Applicable Hold-Down Springs	
Style	Appearance	Part No.	Appearance	Part No.
14-Blade Solder Terminal		SY4S-51		SFA-302

PCB Mounting Accessories
Part Numbers: PCB Mount Sockets with Applicable Hold-Down Springs

PCB Mount Socket			Applicable Hold-Down Springs	
Style	Appearance	Part No.	Appearance	Part No.
14 Blade, PCB Terminal		SY4S-61		SFA-302
14 Blade, PCB Terminal		SY4S-62		SY4S-02F1

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers