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Single-function GT5 Series Timers



Overview

The GT5 series ON Delay timers offer a space and cost saving alternative to multi-function timers. Available in SPDT, DPDT or 4PDT with .110" solder/quick-connect plug-in terminals. Time ranges up to 60 minutes and contact ratings up to 5A.

Key Features

- GT5P: Specify time range per model
- GT5P: SPDT (8 pin octal)
- GT5Y: DPDT or 4PDT (.110" blades)
- GT5Y: Four time ranges per model
- GT5Y: Uses the same sockets and hold-down clips as IDEC's RY4S and RU series relays
- Control settings by hand or screwdriver
- Power "On" and timing "Out" indicating LEDs

GT5 Series

GT5Y-4SN6A100

[Miniature ON Delay timers with delays up to 60 minutes]





Product Specifications

Status	Active
Timer Type	Power Triggered Start (Maintained Start Signal)
Operating Voltage	120V AC
Time Ranges	60 min, 60 sec, 6 sec, 6 min
Timing Functions	On Delay 1 (power start)
Time Adjustment	Analog Knob Adjustable
Pole Configuration	Delayed 4PDT
Terminal Type	Blade
Contact Rating (Resistive @ 120V AC & 30VDC)	3A
Product Type	Single Function Timers
Power Consumption	1.5VA, (50Hz)
Socket: Din Rail / Surface Mount	SY4S-05
Socket: Din Rail / Surface Mount Fingersafe Version	SY4S-05C
Socket: Panel Mount (Socket)	SY4S-51
Socket: PCB Mount	SY4S-61, SY4S-62
Distributor Class/Group	1
Product Series Name	GT5 Series

GT5Y Series – ON Delay Timers

Key features of the GT5Y series include:

- 4PDT, 3A or DPDT, 5A contacts
- 4 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 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 $\phi = 0.3$ L/R = 7msec	440VA AC 75W DC	176VA AC 45W DC
Allowable Voltage		250V AC, 125V DC	
Allowable Current		5A	3A
Temperature Error		$\pm 3\%$ 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 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 $+50^\circ\text{C}$	
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 $\phi = 0.3$, L/R=7msec.

Part Numbering List

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

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 856.

Terminal Blocks

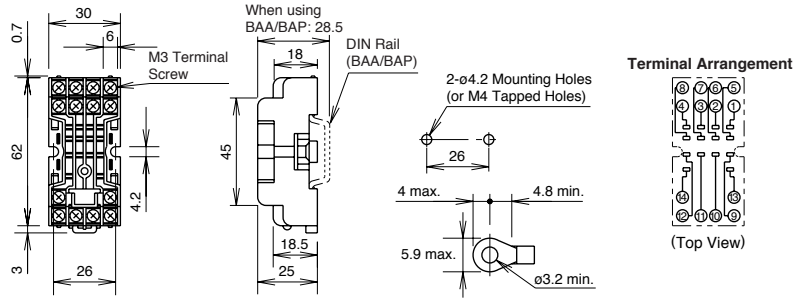
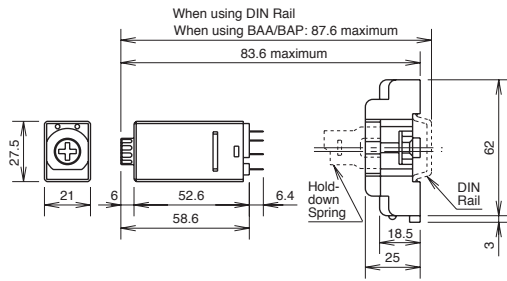
Circuit Breakers

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

Dimensions

GT5Y Timer, Blade with SY4S-05



Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers