

## 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



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

Specifications



1. Minimum applicable load: GT5Y-2: 5V DC, 20mA (reference value); GT5Y-4: 5V DC, 10mA (reference value).
2. Inductive load:  $\cos \theta = .3$ , L/R=7msec.

G  
Timers


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**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			



**Timers**

 1. For sockets and accessories, see page G-66.

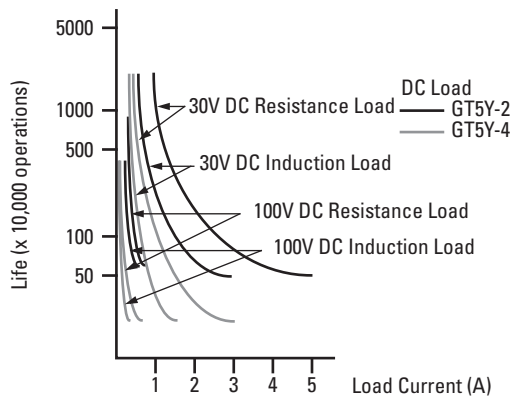
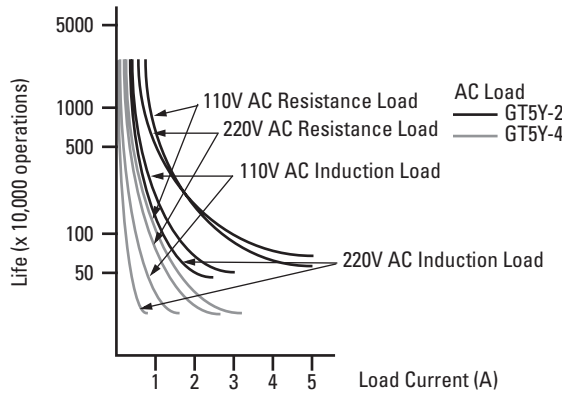
**Timing Ranges**

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

**Timing Diagram/Schematics/Electrical Life Curves**

	GT5Y-2	GT5Y-4																
	<b>DPDT</b>	<b>4PDT</b>																
<b>Internal Connections (bottom view)</b>																		
<b>Operation Mode: ON-Delay</b>	<table border="1"> <thead> <tr> <th>Item</th> <th>Terminal No.</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>Power (Power)</td> <td>13-14</td> <td> </td> </tr> <tr> <td rowspan="2">Delayed Contact</td> <td>(NC) 1-9, 2-10, 3-11, 4-12</td> <td> </td> </tr> <tr> <td>(NO) 5-9, 6-10, 7-11, 8-12</td> <td> </td> </tr> <tr> <td rowspan="2">Indicator</td> <td>POWER</td> <td> </td> </tr> <tr> <td>OUT</td> <td> </td> </tr> </tbody> </table> <p>For an explanation of timing modes, see page E-4.</p>		Item	Terminal No.	Operation	Power (Power)	13-14		Delayed Contact	(NC) 1-9, 2-10, 3-11, 4-12		(NO) 5-9, 6-10, 7-11, 8-12		Indicator	POWER		OUT	
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**Electrical Life Curves**



**Dimensions**

**GT5Y Timer, Blade with SY4S-05**

