

## Multi-function GT3 Series Timers



### Overview

There are several available styles of GT3 Series Timers. GT3A Analog Timers, GT3D Digital Timers, GT3F True Power OFF Delay Timers, GT3S (Star-Delta) and GT3W Dual Time Range Timers offer several different options for your multi-function requirements. There are also multiple models in each GT3 style, with different pin configurations and time ranges. There are four selectable operation modes on each model of GT3A timers. GT3D timers have 6 time ranges, 16 timing functions and time delays up to 99.9 hours with precision time setting. GT3W timers also have 8 selectable operation modes, time ranges up to 300 hours, and sequential start and independent ON/OFF timing functions. Each one has a corresponding IDEC socket.

### Key Features

- GT3A: 16 timing functions in 6 different models, capable of delays up to 180 hours
- GT3D: Time set precision with count up/down LCD display
- GT3F: True Power Off delay timer in SPDT or DPDT, up to 10 minutes

- GT3S: Star-Delta timers
- GT3W: Dual knob adjustments for 8 special timing functions with time ranges up to 300 hours
- 8 or 11 tubular pin termination, use industry standard sockets
- Use industry standard sockets
- UL-recognized, CSA certified TUVV approved and CE marked

## GT3 Series

### GT3F-1AD24

[Multimode and multirange timers with 5A contacts]





## Product Specifications

<b>Status</b>	Active
<b>Timer Type</b>	Power Triggered Start (Maintained Start Signal)
<b>Operating Voltage</b>	24V AC, 24V DC
<b>Time Ranges</b>	10 sec, 1 sec, 180 sec, 60 sec, 30 sec, 6 sec, 3 sec, 600 sec
<b>Timing Functions</b>	True Off Delay (power start)
<b>Time Adjustment</b>	Analog Knob Adjustable
<b>Pole Configuration</b>	Delayed SPDT
<b>Terminal Type</b>	8 Pin
<b>Contact Rating (Resistive @ 120V AC &amp; 30VDC)</b>	5A
<b>Product Type</b>	Multi Function Timers
<b>Power Consumption</b>	1.2VA, 0.8W
<b>Weight</b>	66g
<b>Socket: Din Rail / Surface Mount</b>	SR2P-05, SR2P-06
<b>Socket: Din Rail / Surface Mount Fingersafe Version</b>	SR2P-05C
<b>Socket: Panel Mount (Socket)</b>	SR2P-51
<b>Socket: Panel Mount (Timer Face)</b>	SR6P-M08G (Screw Terminal), SR6P-S08 (Solder Terminal)
<b>Panel Mount Adaptor</b>	RTB-G01
<b>Distributor Class/Group</b>	1
<b>Product Series Name</b>	GT3 Series

GT3F Series – True OFF Delay Timers

Key features of the GT3F series include:

- “True” power OFF-delay up to 10 minutes
- No external control switch necessary
- Available with reset inputs
- Mountable in sockets or flush panel



Specifications

	GT3F-1	GT3F-2
<b>Operation</b>	True power OFF-delay	
<b>Time Range</b>	0.1 seconds to 600 seconds	
<b>Rated Voltage</b>	100 to 240V AC, 50/60Hz 24V AC/DC	
<b>Contact Rating</b>	250V AC/30V DC, 5A (resistive load)	250V AC/30V DC, 3A (resistive load)
<b>Contact Form</b>	SPDT	DPDT
<b>Minimum Power Application Time</b>	1 second	
<b>Voltage Tolerance</b>	AF20: 100 to 240V AC AD24: 21.6 to 26.4VDC, 20.4 to 26.4VAC	
<b>Repeat Error</b>	±0.2%, ±10 msec	
<b>Voltage Error</b>	±0.2%, ±10 msec	
<b>Temperature Error</b>	±0.2%, ±10 msec	
<b>Setting Error</b>	±10% maximum	
<b>Insulation Resistance</b>	100MW minimum	
<b>Dielectric Strength</b>	Between power and output terminals: 2,000V AC, 1 minute (SPDT) 1,500V AC, 1 minute (DPDT) Between contacts on different poles: 1,000V AC, 1 minute (DPDT) Between contacts of the same pole: 750V AC, 1 minute	
<b>Power Consumption</b>	AF20: 3.7VA (200V AC, 60Hz) AD24: 0.8W (DC), 1.2VA (AC)	
<b>Mechanical Life</b>	20,000,000 operations minimum	
<b>Electrical Life</b>	100,000 operations minimum	
<b>Vibration Resistance</b>	100m/sec <sup>2</sup> (approximate 10G)	
<b>Shock Resistance</b>	Operating extremes: 100 m/sec <sup>2</sup> (approximate 10G) Damage limits: 500 m/sec <sup>2</sup> (approximate 50G)	
<b>Operating Temperature</b>	-10 to +50°C	
<b>Storage Temperature</b>	-30 to +80°C	
<b>Operating Humidity</b>	45 to 85% RH	
<b>Weight (approximate)</b>	77g	79g

1. An inrush current flows during the minimum power application time. AF20: approximate 0.4A, AD24: approximate 1.2A
2. GT3F does not read the preset time range shown on the knob after power is turned off. Note that minimizing the preset time, by turning the knob to zero, does not shorten the delay time after power is removed.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

Part Numbering List

GT3F

Mode of Operation	Rated Voltage Code	Time Range	Output	Contact	Optional Input	Complete Part Number	
						8-Pin	11-Pin
Power OFF-delay	AF20: 100 to 240VAC (50/60Hz)	0.1 seconds to 600 seconds	250V AC, 5A,	Delayed SPDT	Reset	GT3F-1AF20	GT3F-1EAF20
			30V DC, 5A (resistive load)			GT3F-1AD24	GT3F-1EAD24
	AD24: 24V AC/DC		250V AC, 3A,	Delayed DPDT	None (8p) Reset (11p)	GT3F-2AF20	GT3F-2EAF20
			30V DC, 3A (resistive load)			GT3F-2AD24	GT3F-2EAD24

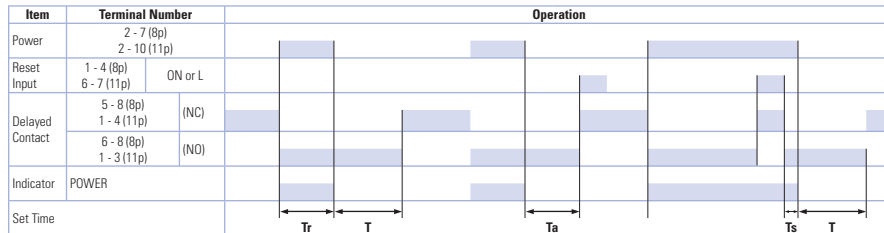
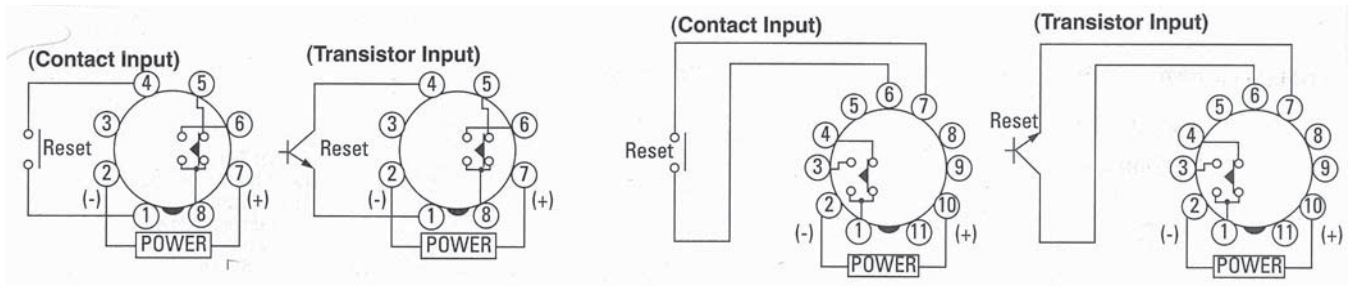


Optional reset input resets the contact to the OFF state before time out.

Timing Diagrams/Schematics

GT3F-1 Timing Diagrams

GT3F-1 (8-pin)	GT3F-1E (11-pin)
Delayed SPDT Output, with Reset Input	



T = Set time  
 Ta = Shorter than set time  
 Ts = 1 Second  
 Tr = Minimum Power Application Time  
 GT3F-1: 1 Second

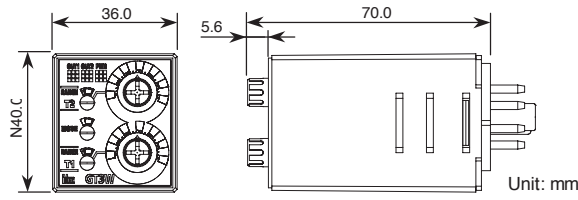
1. For time ranges, see page 829.
2. For sockets and accessory part numbers, see page 838.
3. When power is applied, the NO output contact closes. When power is removed, the timing period begins. When time has elapsed, the NO contact opens.
4. For the timing diagram overview, see page 794.

Instructions: Setting GT3F Series Timers



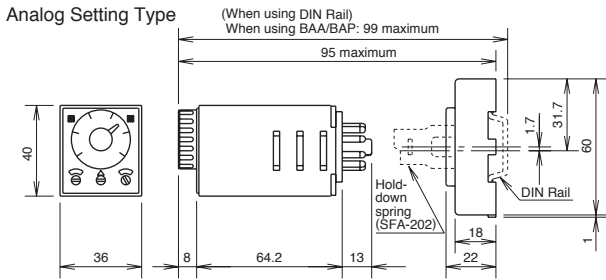
Step 1	Desired Operation	Selection		Remarks
Select a time range that contains the desired period of time.	Base Time Ranges	① Dial Selector	② Time Range Selector	Time range can be selected from 1S and 10S using a flat screwdriver and five different dials of 0 to 1, 0 to 3, 0 to 6, 0 to 18, and 0 to 60 are displayed in the six windows by turning the Dial Selector, allowing for selecting the best suited scale. Note that the switch does not turn infinitely.
	0.1s to 1s	0 to 1	1s	
	0.1s to 3s	0 to 3		
	0.1s to 6s	0 to 6		
	0.1s to 10s	0 to 1	10s	
	0.3s to 30	0 to 3		
	0.6s to 60	0 to 6		
	1.8s to 180s	0 to 18		
6s to 600s	0 to 60			
Step 2				Remarks
The set time is selected by turning the ③ Setting Knob.				Setting Examples: 1. When the Setting Knob ③ is set at 2.5, with Dial Selector ① 0 to 3 and Time Range Selector ② 1S selected, then the set time is 2.5 seconds. 2. When the Setting Knob ③ is set at 5.0, with Dial Selector ① 0 to 60 and Time Range Selector ② 10S selected, then the set time is 500 seconds.

Dimensions

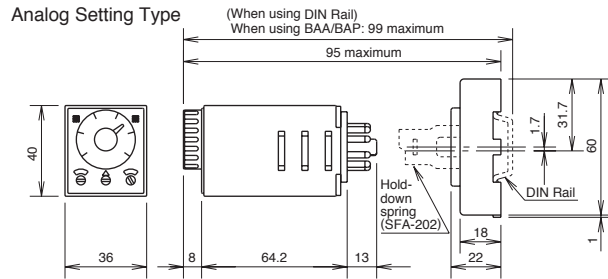


NOTE: GT3W series are UL Listed when used in combination with following IDEC's sockets:  
 GT3W-A11, A33: SR2P-06\* pin type socket.  
 GT3W-A11E: SR3P-05\* pin type socket.  
 (\*-May be followed by A,B,C or U)  
 The socket to be used with these timers are rated:  
 -Conductor Temperature Rating 60°C min.  
 -Use 14AWG max.(2mm<sup>2</sup>max.) Copper conductors only  
 -Terminal Torque 1.0 to 1.3 N-m

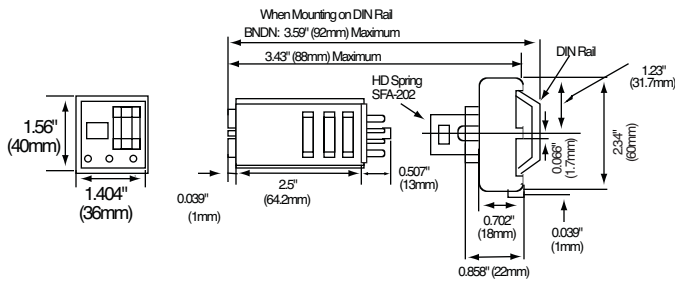
Analog GT3 Timer, 8-Pin with SR2P-06



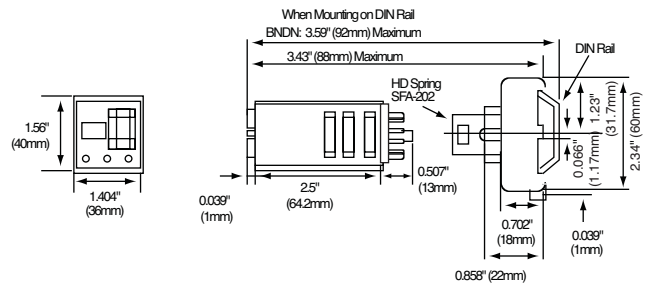
Analog GT3 Timer, 11-Pin with SR3P-06



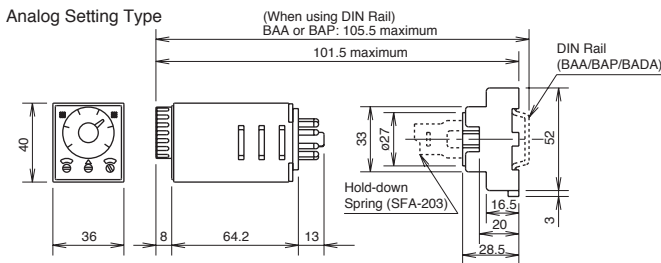
Digital GT3 Timer, 8-Pin with SR2P-06



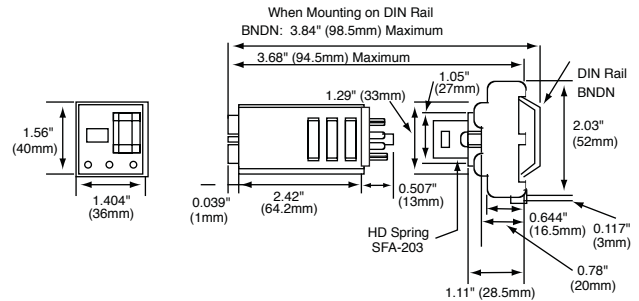
Digital GT3 Timer, 11-Pin with SR3P-06



Analog GT3 Timer, 11-Pin with SR3P-05



Digital GT3 Timer, 11-Pin with SR3P-05



Switches & Pilot Lights

Display Lights

Relays & Sockets

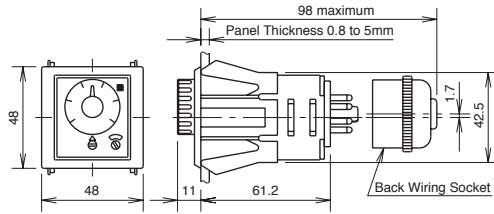
Timers

Terminal Blocks

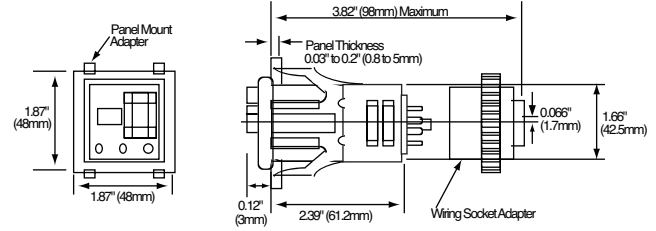
Circuit Breakers

Panel Mount Adapter

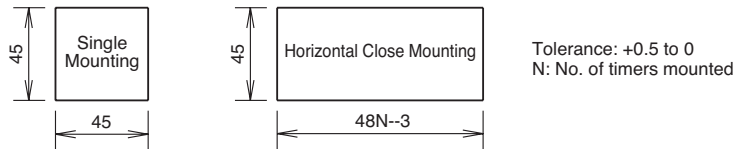
Analog GT3 Timer, 8-Pin and 11-Pin with SR6P-S08 or SR6P-S11



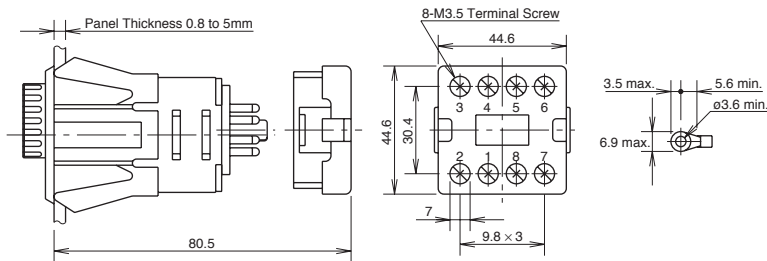
Digital GT3 Timer, 8-Pin and 11-Pin with SR6P-S08 or SR6P-S11



Mounting Hole Layout



Analog and Digital GT3 Timer, 8-Pin with SR6P-M08G



Analog and Digital GT3 Timer, 11-Pin with SR6P-M11G

