GT3A Series – Analog Timers

Key features:

- 4 selectable operation modes on each model
- External start, reset, and gate inputs
- Panel mount or socket mount
- Large variety of timing functions
- Power and output status indicating LEDs





Specifications

	GT3A-1	GT3A-2	GT3A-3	GT3A-4,-5,-6				
Operation		Multi-mode		Multi-mode with inputs (11 pins)				
Time Range		0.1s to 1	80 hours					
Rated Voltage		12V	AC, 50/60Hz DC 0Hz / 24V DC					
Contact Ratings	125V AC/2 30V DC, 1A (r	50V AC, 3A; resistive load)		50V AC, 5A; resistive load)				
Minimum Applicable Load		5V, 10mA (ref	erence value)					
Voltage Tolerance		AF20 (100V AC): 85 to 264V AC AD24: 20.4 to 26.4V AC/21.6 to 26.4V DC D12: 10.8 to 13.2V DC						
Error		±0.2%, ±10 msec (repeat, voltage, temperature) ±10% maximum						
Setting Error		±10% m	aximum					
Reset Time		60msec r	naximum					
Insulation Resistance		100MW	minimum					
Dielectric Strength		Between power and output terminals: 2,000V AC, 1 minute Between contacts of different poles: 2,000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute						
	Delayed SPDT	Delayed SPDT + instantaneous SPDT	Delayed DPDT	Delayed DPDT				
Power Consumption (approximate)	10.8VA (200V AC, 60Hz)	13.5VA (200V AC, 60Hz)	14.4VA (200V AC, 60Hz)	4.7VA (100V AC, 60Hz), 14.4VA (200V AC, 60Hz)				
(upproximite)	_	12VDC/1W 24VDC/0.7W 24VAC/1.2VA	12VDC/1.1W 24VDC/0.6W 24VAC/1.3VA	12VDC/0.8W 24VDC/0.6W 24VAC/1.3VA				
Mechanical Life	10,000,000 ope	rations minimum	5,000,000 oper	ations minimum				
Electrical Llfe	50,000 operations r	ninimum (rated load)	100,000 operations r	minimum (rated load)				
Weight (approximate)	63g	73g	79g	80g				
Vibration Resistance		100m/sec ² (ap	proximate 10G)					
Shock Resistance	Operating extremes: 100m/sec ² (approximate 10G) Damage limits: 500m/sec ² (approximate 50G)							
Operating Temperature		—10 to	+50°C					
Operating Humidity		45 to 8	5% RH					
Storage Temperature		-30 to	+80°C					
Housing Color		Gr	ау					

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Gireuit Breakers



Part Numbers

GT3A-1, -2, -3

Mode Of	Datad Valtage Code	Time Denge	Quitaut	Contont	Complete Part No.		
Operation	Rated Voltage Code	Time Range	Output	Contact	8-Pin	11-Pin	
	AF20: 100 to 240V AC (50/60Hz)			Delayed SPDT	GT3A-1AF20	GT3A-1EAF20	
A: ON-delay 1 B: Interval 1 AF20: 100 to 240V AC (50/60Hz) C: Cycle 1 D12: 12V DC D: Cycle 3 AD24: 24V AC (50/60Hz)/24V DC		250V AC, 3A,	D. I. LODDT	GT3A-2AF20	GT3A-2EAF20		
		0.1 seconds to 180 hours	30V DC, 1A (resistive load)	Delayed SPDT + Instantaneous SPDT	GT3A-2D12	GT3A-2ED12	
					GT3A-2AD24	GT3A-2EAD24	
			240V AC, 5A,		GT3A-3AF20	GT3A-3EAF20	
			24V DC, 5A	Delayed DPDT	GT3A-3D12	GT3A-3ED12	
			(resistive load)		GT3A-3AD24	GT3A-3EAD24	

1. For wiring schematics and timing diagrams for GT3A-1, -2, -3, see pages page 940 and page 941 respectively.

For more details about time ranges, see instructions on page page 940.
 For socket and accessory part numbers, see page 958.

GT3A-4, -5, -6

Mode of	Rated Voltage Code	Time Range	Output	Contact	Input	Complete	Part No.
Operation	naleu voltage coue	nine nange	Output	Contact	mput	A (11-pin)	B (11-pin)
A: ON-Delay 2	AF20: 100 to 240V AC (50/60Hz)					GT3A-4AF20	GT3A-4EAF20
B: Cycle 2 C: Signal ON/OFF-Delay 1	D12: 12V DC					GT3A-4D12	GT3A-4ED12
D: Signal OFF-Delay 1	AD24: 24V AC (50/60Hz)/24V DC					GT3A-4AD24	GT3A-4EAD24
A: Interval 2 B: One-Shot Cycle		0.1 seconds	250V AC, 5A, 24V DC, 5A	Delayed	Start Reset	GT3A-5AF20	GT3A-5EAF20
C: Signal ON/OFF-Delay 2 D: Signal OFF-Delay 2	AF20: 100 to 240V AC (50/60Hz)	to 180 hours	(resistive load)	DPDT	Gate	GT3A-5AD24	GT3A-5EAD24
A: One-Shot B: One-Shot ON-Delay	AD24: 24V AC (50/60Hz)/24V DC					GT3A-6AF20	GT3A-6EAF20
C: One-Shot 2 D: Signal ON/OFF-Delay 3						GT3A-6AD24	GT3A-6EAD24

For wiring schematics and timing diagrams GT3A-4,-5,-6, see pages 940, 941, and 941 respectively.
 For more details about time ranges, see instructions on page 940.
 A (11-pin) and B (11-pin) differ in the way inputs are wired.

7. For socket and accessory part numbers, see page 958.

8. For the timing diagrams overview, see page 940.

Switches & Pilot Lights

Contactors

Timing Diagrams/Schematics

GT3A-1 Timing Diagrams Delayed SPDT

Operation Mode Selection		4 5 3 0 0 2 0 5 1 8 POWER	6 7 (+) 11-Pin 5 6 7 8 3 9 9 10 (+) POWER
ON-Delay 1	Item Set Time	Terminal Number	Operation T
MODE	Power	2 - 7 (8p) 2 - 10 (11p)	↓
Α	Delayed Contact	5 - 8 (8p) 8 - 11 (11p) (NC) 6 - 8 (8p) 9 - 11 (11p) (NO)	
\ominus	Indicator	POWER OUT	
Interval 1	Item	Terminal Number	Operation
IIILEIVAIII	Set Time		T
MODE	Power	2 - 7 (8p) 2 - 10 (11p)	<>
В	Delayed Contact	5 - 8 (8p) 8 - 11 (11p) (NC) 6 - 8 (8p) 9 - 11 (11p) (NO)	
\bigcirc	Indicator	POWER	
Cycle 1	Item	Terminal Number	Operation
(OFF first)	Set Time		
MODE	Power	2 - 7 (8p) 2 - 10 (11p)	
MODE C	Delayed Contact	5 - 8 (8p) 8 - 11 (11p) (NC) 6 - 8 (8p) (NO)	
	Indicator	9 - 11 (11p) (NU) POWER OUT	
Cycle 3 (ON first) MODE	Item Set Time Power Delayed Contact	Terminal Number 2 - 7 (8p) 2 - 10 (11p) 5 - 8 (8p) 8 - 11 (11p) N(NC) 6 - 8 (8p) 9 - 11 (11p) N(NO)	Operation T T Compared to the second secon
\bigcirc	Indicator	OUT	

GT3A

Signaling Lights

GT3A-2 Timing Diagrams **Delayed SPDT + Instantaneous SPDT**

Operation Mode Selection



ON-Delay MODE Α

Item	Terminal N	umber			0	perati	on	
Set Time				т				
Power	2 - 7 (8p) 2 - 10 (11p)						-	
Delayed	5 - 8 (8p) 8 - 11 (11p)	(NC)						
Contact	6 - 8 (8p) 9 - 11 (11p)	(NO)						
Instantaneous	1 - 4	(NC)						
Contact	1 - 3	(NO)						
Indicator	POWER							
muicator	OUT							

Timers

	Item	Terminal N	umber			Ope	ration		
	Set Time				т				
Interval 1	Power	2 - 7 (8p) 2 - 10 (11p)		-			-		
MODE	Delayed	5 - 8 (8p) 8 - 11 (11p)	(NC)						
В	Contact	6 - 8 (8p) 9 - 11 (11p)	(NO)						
	Instantaneous	1 - 4	(NC)						
$\langle \rangle$	Contact	1 - 3	(NO)						
\bigcirc		POWER							
	Indicator	OUT							

C

	Item	Terminal Nu	mber			Oper	ation		
	Set Time			Т	T				
	Power	2 - 7 (8p) 2 - 10 (11p)				•			
_	Delayed	5 - 8 (8p) 8 - 11 (11p)	(NC)						
-	Contact	6 - 8 (8p) 9 - 11 (11p)	(NO)						
	Instantaneous	1 - 4	(NC)						
۸	Contact	1 - 3	(NO)						
)	Indicator	POWER							
	muicator	OUT							

Terminal Blocks

Contactors

MODE
D
\bigcirc

Cycle 3 (ON first)

Item	Terminal Nu	ımber			Oper	ation		
Set Time			Т	T				
Power	2 - 7 (8p) 2 - 10 (11p)				•			
Delayed	5 - 8 (8p) 8 - 11 (11p)	(NC)						
Contact	6 - 8 (8p) 9 - 11 (11p)	(NO)						
Instantaneous	1 - 4	(NC)						
Contact	1 - 3	(NO)						
Indicator	POWER							
murcator	OUT							

Note: Pins 1, 3, and 4 are the instantaneous contacts.

GT3A-3 Timing Diagrams **Delayed DPDT**

8-Pin

(-)







ON-Delay 1	Item	Terminal Number	Operation
on Donay I	Set Time		T
MODE	Power	2 - 7 (8p) 2 - 10 (11p)	4
Α	Delayed	1 -4, 5 - 8 (8p) 1 -4, 8 - 11 (11p) (NC)	
A	Contact	1 -3, 6 - 8 (8p) 1 -3, 9 - 11 (11p) (NO)	
\square	Indiantes	POWER	
\bigcirc	Indicator	OUT	

Interval 1 MODE В

Item	Item Terminal Number			Operati	on
Set Time				т	
Power	2 - 7 (8p) 2 - 10 (11p)			،	
Delayed	1 -4, 5 - 8 (8p) 1 -4, 8 - 11 (11p)	(NC)			
Contact	1 -3, 6 - 8 (8p) 1 -3, 9 - 11 (11p)	(NO)			
Indicator	POWER				
IIIUICatul	OUT				

Cycle 1 (OFF first) MODE C

Item	Terminal Num	Terminal Number				Opera	ation		
Set Time				T	T				
Power	2 - 7 (8p) 2 - 10 (11p)								
Delayed	1 -4, 5 - 8 (8p) 1 -4, 8 - 11 (11p)	(NC)							
Contact	1 -3, 6 - 8 (8p) 1 -3, 9 - 11 (11p)	(NO)							
Indicator	POWER								
mulcator	OUT								

MODE D

Item	Terminal Num	Operation							
Set Time			T	T					
Power	2 - 7 (8p) 2 - 10 (11p)		-	*	+				1
Delayed Contact	1 -4, 5 - 8 (8p) 1 -4, 8 - 11 (11p)	(NC)							
	1 -3, 6 - 8 (8p) 1 -3, 9 - 11 (11p)	(NO)							ĺ
Indicator	POWER								
	OUT								



$\mathbf{D} = \mathbf{C}$	

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

GT3A-4 Timing Diagrams Delayed DPDT



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GT3A

Timers



T = Set time Ta = Shorter than set ti T = T' + T"

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Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

GT3A-6 Timing Diagrams Delayed DPDT



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Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Timers

Instructions: Setting GT3A Series Timers

Timed OUT Indicator

1S, 10S, 10M, 10H

① Operator Mode Selector A, B, C, D



② Dial Selector
0-1, 0-3, 0-6, 0-18

Step 1.	Desired	Mode of Operation	S	election	Remarks		
	For Timers	Mode of Operation	① Operatio	on Mode Selector			
		ON-delay 1		А			
	GT3A-1	Interval 1		В			
	GT3A-2 GT3A-3	Cycle 1		С			
	010/10	Cycle 3		D			
		ON-delay 2		А	The desired operation mode can be selected from		
	GT3A-4	Cycle 2		В	the A, B, C, and D modes using the Operation Mode		
Coloret the designed mode	013A-4	Signal ON/OFF-delay 1		С	Selector. Change the operation mode from A to B, C,		
Select the desired mode of operation.		Signal OFF-delay 1		D	and D in turn by turning the operation mode selector		
		Interval 2		А	clockwise using a flat screwdriver which is a maximu		
	GT3A-5	One-shot cycle		В	of 0.156" (4mm) wide. The selected mode is displayed in the window.		
	G13A-3	Signal ON/OFF-delay 2		С	In the window.		
		Signal OFF-delay 2		D			
		One-shot 1	А				
	GT3A-6	One-shot ON-delay		В			
	013A-0	One-shot 2		С			
	Signal ON/OFF-delay			D			
Step 2.	Des	ired Time Range	S	election	Remarks		
	٦	lime Ranges	② Dial Selector	③ Time Range Selector			
	0.1 seconds to 1 second		0-1				
	0.1 seconds to 3 seconds		0-3	- 1S			
	0.1 seconds to 6 seconds		0-6				
	0.15 seconds to 18 seconds		0-18				
	0.1 seconds t	o 10 seconds	0-1				
	0.3 seconds t	o 30 seconds	0-3	10S			
Select the time range	0.6 seconds t	o 60 seconds	0-6	103	The desired time range is selected by setting both		
that contains the desired	1.8 seconds t	o 180 seconds	0-18		② Dial Selector and		
time period.	6 seconds to	10 minutes	0-1		③ Time Range Selector.		
	18 seconds to	o 30 minutes	0-3	10M			
	36 seconds to	o 60 minutes	0-6	TUIVI			
	108 seconds	to 180 minutes	0-18				
	6 minutes to	10 hours	0-1				
	18 minutes to	o 30 hours	0-3	10H			
	36 minutes to	o 60 hours	0-6	IUII			
	108 minutes	to 180 hours	0-18				
Step 3.				Selection			



Switches & Pilot Lights

Signaling Lights

GT3F Series – True Power OFF Delay Timers

Key features:

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

CUL UL, c-UL Listed File No. E55996



Specifications

	GT3F-1	GT3F-2			
Operation	True power	OFF-delay			
Time Range	0.1 seconds to 600 seconds				
Rated Voltage	100 to 240V AC, 50/60Hz 24V AC/DC				
Contact Rating	250V AC/24V DC, 5A (resistive load)	250V AC/24V DC, 3A (resistive load)			
Contact Form	SPDT	DPDT			
Minimum Power Application Time	1 se	cond			
Voltage Tolerance	AF20: 100 t AD24: 21.6 to 26.4V				
Repeat Error	±0.2%, ±	10 msec			
Voltage Error	±0.2%, ±	10 msec			
Temperature Error	±0.2%, ±	10 msec			
Setting Error	±10% maximum				
Insulation Resistance	100MW I	ninimum			
Dielectric Strength	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				
Power Consumption	AF20: 3.7VA (200V AC, 60Hz) AD24: 0.8W (DC), 1.2VA (AC)				
Mechanical Life	3,000,000 opera	ations minimum			
Electrical Life	100,000 operat	tions minimum			
Vibration Resistance	100m/sec ² (app	proximate 10G)			
Shock Resistance	Operating 100 m/sec² (ap Damage limits: 500 m/s	proximate 10G)			
Operating Temperature	−10 to +50°C				
Storage Temperature	−30 to +80°C				
Operating Humidity	45 to 85% RH				
Weight (approximate)	77g 79g				
• 1 An insuch aussent flause during the	inimum nouver emplication time. AF2	Di approvimata 0.44			



1705151136

 An inrush current flows during the minimum power application time. AF20: approximate 0.4A, AD24: approximate 1.2A
 CTEF does not read the present time range above on the know after power is turned off. Note that if

 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.



Relays & Sockets

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Part Numbering List

GT3F								
Mode of	Rated	Time Range	Output	Contact	Optional Input	Complete Part Number		
Operation	Operation Voltage Code		Output	Contact	Optional Input	8-Pin	11-Pin	
	AF20: 100 to		250V AC, 5A,	Delayed SPDT	Reset	GT3F-1AF20	GT3F-1EAF20	
True-Power	240VAC (50/60Hz)	40VAC (50/60Hz) 0.1 seconds to	30V DC, 5A (resistive load)	Delayeu SFDT	nesel	GT3F-1AD24	GT3F-1EAD24	
OFF-delay		600 seconds	250V AC, 3A,		None (8p)	GT3F-2AF20	GT3F-2EAF20	
	AD24: 24V AC/DC		30V DC, 3A (resistive load)	Delayed DPDT	Reset (11p)	GT3F-2AD24	GT3F-2EAD24	

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

Timing Diagrams/Schematics

GT3F-1 Timing Diagrams



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 page 941.

2. For sockets and accessory part numbers, see page page 967.

- 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 page 940.





When power is applied, the NO contact closes. When power is removed, the timing period begins. When time has elapsed, the NO contact opens. Optional reset input will return contacts to original state before time elapses.



ltem	Terminal	Number	Operation							
Power	2 -	10								
Reset Input	6 - 7 (11p)	ON or L								
Delayed	1 - 4 8 - 11	(NC)								
Contact	1 - 3 9 - 11	(NO)								
Indicator	POWER									
Set Time			l←→→ Tr	≁ → T			← → Ta		+→ Ts	←→ T

Contactors

Circuit Breakers

Instructions: Setting GT3F Series Timers



① Dial Selector _____ 0-1, 0-3, 0-6, 0-18, 0-60

Step 1	Desired Operation	Sele	ction	Remarks					
	Base Time Ranges	① Dial Selector ② Time Range Selector							
	0.1s to 1s	0 to 1							
Select a time	0.1s to 3s	0 to 3	1s	T					
range that contains the desired period of time.	0.1s to 6s	0 to 6		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					
	0.1s to 10s	0 to 1							
	0.3s to 30	0 to 3		switch does not turn infinitely.					
	0.6s to 60	0 to 6	10s						
	1.8s to 180s	0 to 18							
	6s to 600s	0 to 60							
	St	ep 2		Remarks					
				Setting Examples:					
The set time is s	elected by turning the ③ Set	by turning the ③ Setting Knob. 1. When the Setting Knob ③ is set at 2.5, with Dial Selector ① 0 to 3 and Time Ra Selector ② 1S selected, then the set time is 2.5 seconds.							
				2. When the Setting Knob \circledast is set at 5.0, with Dial Selector \circledast 0 to 60 and Time Range					

Selector @ 10S selected, then the set time is 500 seconds.

Instructions: Wiring Inputs

Inputs of GT3F

To avoid electric shock, do not touch the input signal terminal during power voltage application. Never apply the input signals to two or more GT3F timers using the same contact or transistor.



In a transistor circuit for controlling input signals, with its primary and secondary power circuits isolated, do not ground the secondary circuit.

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IDEC

Circuit Breakers

On the GT3F timers, connect the input signals to terminal No.1 and 4 only on the 8-pin type; connect the input signals to terminal No.6 and 7 only on the 11-pin type. Never apply voltage to other terminals; otherwise, the internal circuit may be damaged. Input signal lines must be made as short as possible and installed away from power cables and power lines. Use shielded wires or a separate conduit for input wiring. The GT3F, consisting of a high-impedance circuit, may not be reset due to the influence of an inductive voltage or residual voltage caused by a leakage current. If not reset, connect an RC filter or bleeder resistor between power terminals so that the voltage between power terminals can be reduced to less than 15% of the rated voltage.

GT3F

Contactors

GT3W Series – Dual Time Range Timers

Key features:

- Sequential start, sequential interval, on-delay, recycler, and interval ON timing functions
- 2 time settings in one timer
- 8 selectable operation modes on each model
- Mountable in sockets or flush panel
- Power and output status indicating LEDs
- Time ranges up to 300 hours



General Specifications

General Specificati	ons						
Operation System			Solid state CMOS Circuit				
Operation Type			Multi-Mode				
Time Range			1: 0.1sec to 6 hours, 3: 0.1sec to 300 hours				
Pollution Degree			2 (IE60664-1)				
Over Voltage Category			III (IE60664-1)				
		AF20	100-240V AC(50/60Hz)				
Rated Operational Volta	ige	AD24	24V AC(50/60Hz)/24V DC				
		D12	12V DC				
		AF20	85-264V AC(50/60Hz)				
Voltage Tolerance	Voltage Tolerance		20.4-26.4V AC(50/60Hz)/21.6-26.4V DC				
		D12	10.8-13.2V DC				
Disengaging Value of In	nput Volta	ge	Rated Voltage x10% minimum				
Range of Ambient Oper	ating Ten	nperature	-10 to +50°C (without freezing)				
Range of Ambient Stora and Transport Temperat	•		-30 to +75°C (without freezing)				
Range of Relative Humi	dity		35 to 85%RH (without condensation)				
Atmospheric Pressure			80kPa to 110kPa (Operating), 70kPa to 110kPa (Transport)				
Reset Time			60msec maximum				
Repeat Error			±0.2%, ±10msec*				
Voltage Error			±0.2%, ±10msec*				
Temperature Error			±0.6%, ±10msec*				
Setting Error			±10% maximum				
Insulation Resistance			100MΩ minimum (500V DC)				
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 0.75mm^2 hours in each of 3 axes				
Shock Resistance			Operating extremes: 98m/sec ² (approx.10G) Damage limits: 490m/sec ² (approx. 50G) 3 times in each of 3 axes				
Degree of Protection			IP40 (enclosure), IP20 (socket) (IEC60529)				
	4.520	100V AC/60H	z 2.3VA				
Power Consumption (Approx.)	AF20	200V AC/60H	z 4.6VA				
	۵۵	24 (AC/DC)	1.8VA/0.9W				
(reprovi)	AD.		Free				
Mounting Position	AD.		Free				
	AD.		Free 40Hx 36W x 70 mm				



Contact Ratings

Allowable Con	tact Power	960VA/120W			
Allowable Volt	age	250V AC/150V DC			
Allowable Curr	rent	5A			
Maximum perr operating freq		1800 cycles per hour			
		1/8HP, 240V AC			
Bated Load		3A, 240V AC (Resistive)			
		5A, 120V AC/30V DC (Resistive)			
Conditional Sh	ort Circuit	Fuse 5A, 250V			
Life	Electrical	100,000 op. minimum (Resistive)			
	Mechanical	20,000,000 op. minimum			

Relays & Sockets

GT3W

Switches & Pilot Lights

Signaling Lights

* For the value of the error against a preset time, whichever the largest applies.



Signaling Lights

Timers

Part Number List

Part Numbers

Mode of Operation	Output	Contact	Time Range*	Rated Voltage	Pin Configuration	New Part Numbers
			1: 0.1sec - 6 hours *(See Time Range Settings for details.)	100 to 240V AC	8 pin	GT3W-A11AF20N
A: Sequential Start B: On-delay with course and fine		Delayed SPDT + Delayed SPDT		(50/60Hz)	11 pin	GT3W-A11EAF20N
	3A, 240V AU			24V AC/DC	8 pin	GT3W-A11AD24N
C: Recycler and instaneous D: Recycler outputs (OFF Start)					11 pin	GT3W-A11EAD24N
E: Recycler outputs (ON Start) F: Interval ON G: Interval ON Delay				12V DC	8 pin	GT3W-A11D12N
H: Sequential Interval					11 pin	GT3W-A11ED12N
			3: 0.1sec - 300 hours	100 to 240V AC (50/60Hz)	Q pip	GT3W-A33AF20N
				24V AC/DC	8 pin	GT3W-A33AD24N

For timing diagrams and schematics, see page 940.
 For socket and accessory part number information, see page 959.
 8- and 11-pin models differ only in the number of pins (extra pins are not used).
 For the timing diagram overview, see page 940.
 *For details on setting time ranges, see the instructions on page 941.

Time Range Table

	Time Range Code: 1		Time Range Code: 3			
Time Range Selector	Scale	Scale Time Range		Scale	Time Range	
1S		0.1 sec - 1 sec	1S		0.1 sec - 3 sec	
10S	0-1	0.3 sec - 10 sec	1M	0 - 3	3 sec - 3 min	
10M		15 sec - 10 min	1H		3 min - 3 hours	
1S		0.1 sec - 6 sec	1S		0.6 sec - 30 sec	
10S		1 sec - 60 sec	1M		36 sec - 30 min	
1M	0 - 6	6 sec - 6 min	1H	0 - 30	36min - 30 hours	
10M		1 min - 60 min	10H		6 hours 200 hours	
1H		6 min - 6 hours	IUH		6 hours - 300 hours	



Timing Diagrams/Schematics





Mode		Operation Chart			Mode	Operation Chart		
A: Sequential Start	Item	Terminal No.	Operation	Description		ltem	Terminal Operation Description	
	Power	2-7			art)	Power		
	Delayed Contact Ry1 Delayed Contact Ry2	1-4 (NC) 1-3 (NO) 5-8 (NC) 6-8		ON after T1	E: Recycler outputs (ON Start)	Delayed Contact Ry1 Delayed Contact	IVO: ON during T1 1-3 OFF during T2 (NO) OFF during T2 j 5-8 i (NC) 0 N during T1 0F during T2 OFF during T2	
	Indicator	(NO) OUT1 OUT2			E: Recycler	Ry2 Indicator	r r 0UT2	
	Set Time					Set T		
B: On-delay with course and fine	ltem Power	Terminal No. 2-7	Operation	Description		Item Power		
	Delayed Contact Ry1 Delayed	1-4 (NC) 1-3 (NO) 5-8 (NC)		ON after T1 + T2	F: Interval ON	Delayed Contact Ry1 Delayed	(NC) ON during T1	
	Contact Ry2 Indicator	6-8 (NO) OUT1		ON after T1 + T2		Contact Ry2 Indicator	r	
	Set Ti	OUT2 me Terminal				Set Ti		
C: Recycler and instantaneous	Item Power Delayed Contact Ry1	2-7 1-4 (NC) 1-3 (NO)	Operation	Description	J Delay	Item Power Delayed Contact Ry1	No. Operation Description r 2-7	
	Delayed Contact Ry2 Indicator	5-8 (NC) 6-8 (NO) OUT1		OFF during T1 ON during T2	G: Interval ON Delay	Delayed Contact Ry2 Indicator	5-8	
	Set Ti	OUT2 me				Set Ti	0UT2	
	Item	Terminal No.	Operation	Description		Item	Terminal Operation Description	
D: Recycler outputs (OFF Start)	Power Delayed	2-7 1-4			al	Power Delayed	7 2-7	
	Contact Ry1 Delayed Contact	(NC) 1-3 (NO) 5-8 (NC) 6-8		OFF during T1 ON during T2 OFF during T1 ON during T2	H: Sequential Interval	Contact Ry1 Delayed Contact	Item Other Other	
	Ry2 Indicator	(NO) OUT1 OUT2				Ry2 Indicator	(N0) auring 12	
	Set T	ime	T1 T2			Set Ti	Time	

Timers

Instructions: Setting GT3W Timer



- 1. The switches should be securely turned using a flat screwdriver 4mm wide (maximum). Note that incorrect setting may cause malfunction. The switches, which do not turn infinitely, should not be turned beyond their limits.
- 2. Since changing the setting during timer operation my cause malfunction, turn power off before changing.

Safety Precautions

Special expertise is required to use Electronic Timers.

- All Electronic Timer modules are manufactured under IDEC's rigorous quality control system, but users must add a backup or fail safe provision to the control system when using the Electronic Timer in applications where heavy damage or personal injury may occur should the Electronic Timer fail.
- Install the Electronic Timer according to instructions described in this catalog.
- Make sure that the operating conditions are as described in the specifications. If you are uncertain about the specifications, contact IDEC in advance.
- In these directions, safety precautions are categorized in order of importance to Warning and Caution.

Warning

Warning notices are used to emphasize that improper operation may cause sever personal injury or death.

- Turn power off to the Electronic timer before starting installation, removal, Wiring, maintenance, and inspection on the Electronic Timer.
- Failure to turn power off may cause electrical shocks or fire hazard.
- Emergency stop and interlocking circuits must be configured outside the Electronic timer. If such a circuit is configured inside the Electronic Timer, failure of the Electronic timer may cause malfunction of the control system, or an accident.

Caution

Caution notices are used where inattention might cause personal injury or damage to equipment.

- The Electronic Timer is designed for installation in equipment. Do not install the Electronic Timer outside equipment.
- Install the Electronic Timer in environments described in the specifications. If the Electronic Timer is used in places where it will be subjected to high-temperature, high-humidity, condensation, corrosive gases, excessive vibrations, or excessive shocks, then electrical shocks, fire hazard, or malfunction could result.
- Use an IEC60127-approved fuse and circuit breaker on the power and output line outside the Electronic Timer.
- Do not disassemble, repair, or modify the Electronic Timer.
- When disposing of the Electronic Timer, do so as industrial waste.

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Relays & Sockets

Contactors

GT3 Series

Accessories

DIN Rail Mounting Accessories

DIN Rail/Surface Mount Sockets and Hold-Down Springs

-	DIN Rail Mount Socket	Applicable Hold-Down Springs			
Style	Appearance	Use with Timers	Part No.	Appearance	Part No.
8-Pin Screw Terminal (dual tier)		GT3A-1, 2, 3 (8-pin) GT3F-1, 2 (8-pin) GT3W (8-pin)	SR2P-05	SFA-2	
11-Pin Screw Terminal (dual tier)		GT3A-1, 2, 3 (11-pin) GT3A-4, 5, 6 GT3F-1, 2 (11-pin) GT3W (11-pin)	SR3P-05		SFA-203
8-Pin Fingersafe Socket		GT3A-1, 2, 3 (8-pin) GT3F-1, 2 (8-pin) GT3W (8-pin)	SR2P-05C		
11-Pin Fingersafe Socket		GT3A-1, 2, 3 (11-pin) GT3A-4, 5, 6 GT3F-1, 2 (11-pin) GT3W (11-pin)	SR3P-05C		
8-Pin Screw Terminal	S S S S	GT3A-1, 2, 3 (8-pin) GT3F-1, 2 (8-pin) GT3W (8-pin)	SR2P-06		054,000
11-Pin Screw Terminal		GT3A-1, 2, 3 (11-pin) GT3A-4, 5, 6 GT3F-1, 2 (11-pin) GT3W (11-pin)	SR3P-06	SFA-20	SFA-202
DIN Mounting Rail Length 1000mm		_	BNDN1000		
nstallation of Hold-Down	~			- Panel Mount Socket	



Panel Mount Socket



Panel Mounting Accessories

	Panel Mount Socket		Applicable HD Springs		
Style	Appearance	Use with Timers	Part No.	Appearance	Part No.
8-Pin Solder Terminal	NT GY	GT3A- (8-pin) GT3W- (8-pin) GT3F- (8-pin)	SR2P-51		SFA-402
11-Pin Solder Terminal	100 S 2 S 4	GT3A- (11-pin) GT3W- (11-pin) GT3F- (11-pin)	SR3P-51		5FA-4UZ

Signaling Lights

For information on installing the hold-down springs, see page 967.

Panel Mount Sockets and Hold-Down Springs

Flush Panel Mount Adapter and Sockets that use an Adapter

Accessory	Description	Appearance	Use with Timers	Part No.
Panel Mount Adapter	Adaptor for flush panel mounting GT3 timers		All GT3 timers	RTB-G01
	8-pin screw terminal		All 8-pin timers	SR6P-M08G
Sockets for use with Panel Mount Adapter	11-pin screw terminal	(Shown: SR6P-M08G for Wiring Socket Adapter)	All 11-pin timers	SR6P-M11G
	8-pin solder terminal		All 8-pin timers	SR6P-S08
	11-pin solder terminal		All 11-pin timers	SR6P-S11

Instructions: Wiring Inputs for GT3 Series

Inputs

To avoid electric shock, do not touch the input signal terminal during power voltage application.

When connecting the input signal terminals of two or more GT3A timers to the same contact or transistor, the input terminals of the same number should be connected. (Connect Terminals No.2 in common.)

[Incorrect]



In a transistor circuit for controlling input signals, with its primary and secondary power circuits isolated, do not ground the secondary circuit.



Connect the input signal terminals of the GT3A timers to Terminal No.2 only. Never apply voltage to other terminals; otherwise, the internal circuit may be damaged.



Input signal lines must be made as short as possible and installed away from power cables and power lines. Use shielded wires or a separate conduit for input wiring.

Inputs Instructions, continued

For contact input, use gold-plated contacts to make sure that the residual voltage is less than 1V when the contacts are closed.



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

For transistor input, use transistors with the following specifications; VCE = 40V, VCES = 1V or less, IC = 50 mA or more, and ICBO = 50μ A or less. The resistance should be less than $1k\Omega$ when the transistor is on. When the output transistor switches on, a signal is input to the timer.



Inputs: GT3A-1, -2, -3

Transistor output equipment such as proximity switches and photoelectric switches can input signals if they are voltage/current output type, with power voltage ranges from 18 to 30V and have1V. When the signal voltage switches from H to L, a signal is input to the timer



Inputs: GT3A-4, -5, -6

Start Input	The start input initiates a time-delay operation and controls output status.	No-voltage contact inputs and NPN open collector transistor inputs are applicable. 24V DC, 1mA maximum				
Reset Input	When the reset input is activated, the time is reset, and contacts return to original state.					
Gate Input	The time-delay operation is suspended while the gate input is on (pause).	Input response time: 50msec maximum				

Signaling Lights

Relays & Sockets

Timers

Timers

Dimensions



NOTE: GT3W series are UL LISTOR ... 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)

- -Conductor Temperature Rating 60°C min. -Use 14AWG max.(2mm²max.) 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





Analog GT3 Timer, 11-Pin with SR3P-05



Panel Mount Adapter

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



Terminal Blocks

Contactors

Mounting Hole Layout



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