## 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 | 0.1 s to 180 hours |  |  |  |
| Rated Voltage | $\begin{gathered} 100 \text { to } 240 \mathrm{~V} \mathrm{AC}, 50 / 60 \mathrm{~Hz} \\ 12 \mathrm{~V} \text { DC } \\ 24 \mathrm{~V} \text { AC, } 50 / 60 \mathrm{~Hz} / 24 \mathrm{~V} \text { DC } \end{gathered}$ |  |  |  |
| Contact Ratings | 125 V AC/250V AC, 3A; 30V DC, 1A (resistive load) |  | 125 V AC/250V AC, 5A; 30V DC, 5A (resistive load) |  |
| Minimum Applicable Load | $5 \mathrm{~V}, 10 \mathrm{~mA}$ (reference value) |  |  |  |
| Voltage Tolerance | $\begin{gathered} \text { AF20 (100V AC): } 85 \text { to } 264 \mathrm{~V} \text { AC } \\ \text { AD24: } 20.4 \text { to } 26.4 \mathrm{~V} \text { AC/21.6 to } 26.4 \mathrm{~V} \text { DC } \\ \text { D12: } 10.8 \text { to } 13.2 \mathrm{~V} \text { DC } \end{gathered}$ |  |  |  |
| Error | $\pm 0.2 \%, \pm 10 \mathrm{msec}$ (repeat, voltage, temperature) |  |  |  |
| Setting Error | $\pm 10 \%$ maximum |  |  |  |
| Reset Time | 60 msec maximum |  |  |  |
| 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: 750 V AC, 1 minute |  |  |  |
| Power Consumption (approximate) | Delayed SPDT | Delayed SPDT + instantaneous SPDT | Delayed DPDT | Delayed DPDT |
|  | $\begin{gathered} \text { 10.8VA } \\ (200 \mathrm{~V} \text { AC, } 60 \mathrm{~Hz}) \end{gathered}$ | $\begin{gathered} 13.5 \mathrm{VA} \\ (200 \mathrm{~V} \text { AC, } 60 \mathrm{~Hz}) \end{gathered}$ | $\begin{gathered} \text { 14.4VA } \\ (200 \mathrm{~V} \text { AC, } 60 \mathrm{~Hz}) \end{gathered}$ | 4.7VA (100V AC, 60Hz), <br> 14.4VA (200V AC, 60Hz) |
|  | - | $\begin{gathered} \text { 12VDC/1W } \\ \text { 24VDC/0.7W } \\ \text { 24VAC/1.2VA } \end{gathered}$ | $\begin{aligned} & 12 \mathrm{VDC} / 1.1 \mathrm{~W} \\ & 24 \mathrm{VDC} / 0.6 \mathrm{~W} \\ & 24 \mathrm{VAC} / 1.3 \mathrm{VA} \end{aligned}$ | $\begin{aligned} & 12 \mathrm{VDC} / 0.8 \mathrm{~W} \\ & 24 \mathrm{VDC} / 0.6 \mathrm{~W} \\ & 24 \mathrm{VAC} / 1.3 \mathrm{VA} \end{aligned}$ |
| Mechanical Life | 10,000,000 operations minimum |  | $5,000,000$ operations minimum |  |
| Electrical Llfe | 50,000 operations minimum (rated load) |  | 100,000 operations minimum (rated load) |  |
| Weight (approximate) | 63 g | 73 g | 79 g | 80g |
| Vibration Resistance | $100 \mathrm{~m} / \mathrm{sec}^{2}$ (approximate 10G) |  |  |  |
| Shock Resistance | Operating extremes: $100 \mathrm{~m} / \mathrm{sec}^{2}$ (approximate 10 G ) Damage limits: $500 \mathrm{~m} / \mathrm{sec}^{2}$ (approximate 50G) |  |  |  |
| Operating Temperature | -10 to $+50^{\circ} \mathrm{C}$ |  |  |  |
| Operating Humidity | 45 to 85\% RH |  |  |  |
| Storage Temperature | -30 to $+80^{\circ} \mathrm{C}$ |  |  |  |
| Housing Color | Gray |  |  |  |

## Timers



GT3A-1, -2, -3

| Mode Of Operation | Rated Voltage Code | Time Range | Output | Contact | Complete Part No. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 8-Pin | 11-Pin |
| A: ON-delay 1 <br> B: Interval 1 <br> C: Cycle 1 <br> D: Cycle 3 | AF20: 100 to 240V AC (50/60Hz) | 0.1 seconds to 180 hours | $\begin{aligned} & 250 \mathrm{~V} \text { AC, 3A, } \\ & 30 \mathrm{~V} \text { DC, } 1 \mathrm{~A} \\ & \text { (resistive load) } \end{aligned}$ | Delayed SPDT | GT3A-1AF20 | GT3A-1EAF20 |
|  | AF20: 100 to 240 V AC (50/60Hz) D12: 12V DC AD24: 24V AC $(50 / 60 \mathrm{~Hz}) / 24 \mathrm{~V}$ DC |  |  | Delayed SPDT + Instantaneous SPDT | GT3A-2AF20 | GT3A-2EAF20 |
|  |  |  |  |  | GT3A-2D12 | GT3A-2ED12 |
|  |  |  |  |  | GT3A-2AD24 | GT3A-2EAD24 |
|  |  |  | $\begin{aligned} & 240 \mathrm{~V} \text { AC, } 5 \mathrm{~A}, \\ & 24 \mathrm{~V} \text { DC, } 5 \mathrm{~A} \\ & \text { (resistive load) } \end{aligned}$ | Delayed DPDT | GT3A-3AF20 | GT3A-3EAF20 |
|  |  |  |  |  | GT3A-3D12 | GT3A-3ED12 |
|  |  |  |  |  | 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 .
2. For socket and accessory part numbers, see page 958.

## GT3A-4, -5, -6

| Mode of Operation | Rated Voltage Code | Time Range | Output | Contact | Input | Complete Part No. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | A (11-pin) | B (11-pin) |
| A: ON-Delay 2 <br> B: Cycle 2 <br> C: Signal ON/OFF-Delay 1 <br> D: Signal OFF-Delay 1 | AF20: 100 to 240 V AC (50/60Hz) D12: 12V DC AD24: 24V AC (50/60Hz)/24V DC | 0.1 seconds <br> to 180 hours | $\begin{aligned} & 250 \mathrm{~V} \text { AC, } 5 \mathrm{~A}, \\ & 24 \mathrm{~V} \text { DC, } 5 \mathrm{~A} \\ & \text { (resistive load) } \end{aligned}$ | Delayed DPDT | Start <br> Reset <br> Gate | GT3A-4AF20 | GT3A-4EAF20 |
|  |  |  |  |  |  | GT3A-4D12 | GT3A-4ED12 |
|  |  |  |  |  |  | GT3A-4AD24 | GT3A-4EAD24 |
| A: Interval 2 <br> B: One-Shot Cycle <br> C: Signal ON/OFF-Delay 2 <br> D: Signal OFF-Delay 2 | AF20: 100 to 240 V AC ( $50 / 60 \mathrm{~Hz}$ ) AD24: 24 V AC ( $50 / 60 \mathrm{~Hz}$ )/24V DC |  |  |  |  | GT3A-5AF20 | GT3A-5EAF20 |
|  |  |  |  |  |  | GT3A-5AD24 | GT3A-5EAD24 |
| A: One-Shot <br> B: One-Shot ON-Delay |  |  |  |  |  | GT3A-6AF20 | GT3A-6EAF20 |
| C: One-Shot 2 <br> D: Signal ON/OFF-Delay 3 |  |  |  |  |  | GT3A-6AD24 | GT3A-6EAD24 |

4. For wiring schematics and timing diagrams GT3A-4,-5,-6, see pages 940,941 , and 941 respectively.
5. For more details about time ranges, see instructions on page 940 .
6. $\mathrm{A}(11$-pin $)$ and $\mathrm{B}(11$-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 .

## Timing Diagrams/Schematics

GT3A-1 Timing Diagrams

## Delayed SPDT



Cycle 1 (OFF first)


Timers
GT3A-2 Timing Diagrams Delayed SPDT + Instantaneous SPDT

ON-Delay 1
MODE


$$
\begin{gathered}
\text { Interval } 1 \\
\text { MODE } \\
\text { B }
\end{gathered}
$$



Cycle 3 (ON first)
MODE
D

Cycle 1 (OFF first)

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

GT3A-3 Timing Diagrams
Delayed DPDT



Interval 1
MODE


## GT3A-4 Timing Diagrams

 Delayed DPDT

## Timers


$\mathrm{T}=$ Set time $\mathrm{Ta}=$ Shorter than set time
$T=T^{\prime}+T^{\prime \prime}$

## GT3A-6 Timing Diagrams Delayed DPDT


$T=$ Set time $\quad T a=$ Shorter than set time
$T=T^{\prime}+T^{\prime \prime}$

## Instructions: Setting GT3A Series Timers

Select the desired mode of operation.

Select the time range that contains the desired time period.


| Step 1. | Desired Mode of Operation |  |  | ection | Remarks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Select the desired mode of operation. | For Timers | Mode of Operation | (1) Opera | Mode Selector | The desired operation mode can be selected from the $A, B, C$, and $D$ modes using the Operation Mode Selector. Change the operation mode from A to B, C, and $D$ in turn by turning the operation mode selector clockwise using a flat screwdriver which is a maximum of $0.156^{\prime \prime}(4 \mathrm{~mm})$ wide. The selected mode is displayed in the window. |
|  | GT3A-1 GT3A-2 GT3A-3 | ON-delay 1 |  | A |  |
|  |  | Interval 1 |  | B |  |
|  |  | Cycle 1 |  | C |  |
|  |  | Cycle 3 |  | D |  |
|  | GT3A-4 | ON-delay 2 |  | A |  |
|  |  | Cycle 2 |  | B |  |
|  |  | Signal ON/OFF-delay 1 |  | C |  |
|  |  | Signal OFF-delay 1 |  | D |  |
|  | GT3A-5 | Interval 2 |  | A |  |
|  |  | One-shot cycle |  | B |  |
|  |  | Signal ON/OFF-delay 2 |  | C |  |
|  |  | Signal OFF-delay 2 |  | D |  |
|  | GT3A-6 | One-shot 1 |  | A |  |
|  |  | One-shot ON-delay |  | B |  |
|  |  | One-shot 2 |  | C |  |
|  |  | Signal ON/OFF-delay 3 |  | D |  |
| Step 2. | Desired Time Range |  | Selection |  | Remarks |
| Select the time range that contains the desired time period. |  | ime Ranges | (2) Dial Selector | (3) Time Range Selector | The desired time range is selected by setting both <br> (2) Dial Selector and <br> (3) Time Range Selector. |
|  | 0.1 seconds to | 1 second | 0-1 | 1 S |  |
|  | 0.1 seconds to | 3 seconds | 0-3 |  |  |
|  | 0.1 seconds to | 6 seconds | 0-6 |  |  |
|  | 0.15 seconds | to 18 seconds | 0-18 |  |  |
|  | 0.1 seconds to | 10 seconds | 0-1 | 10 S |  |
|  | 0.3 seconds to | 30 seconds | 0-3 |  |  |
|  | 0.6 seconds | 60 seconds | 0-6 |  |  |
|  | 1.8 seconds | 180 seconds | 0-18 |  |  |
|  | 6 seconds to | 0 minutes | 0-1 | 10M |  |
|  | 18 seconds to | 30 minutes | 0-3 |  |  |
|  | 36 seconds to | 60 minutes | 0-6 |  |  |
|  | 108 seconds | o 180 minutes | 0-18 |  |  |
|  | 6 minutes to | 0 hours | 0-1 | 10 H |  |
|  | 18 minutes to | 30 hours | 0-3 |  |  |
|  | 36 minutes to | 60 hours | 0-6 |  |  |
|  | 108 minutes to 180 hours |  | 0-18 |  |  |
| Step 3. |  |  |  | Selection |  |

Set the precise period of time desired by using the (4) Setting Knob.

## 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



## Specifications

|  | GT3F-1 | GT3F-2 |
| :---: | :---: | :---: |
| Operation | True power OFF-delay |  |
| Time Range | 0.1 seconds to 600 seconds |  |
| Rated Voltage | 100 to 240 V AC, $50 / 60 \mathrm{~Hz}$ 24 V AC/DC |  |
| Contact Rating | 250 V AC/24V DC, 5A (resistive load) | 250 V AC/24V DC, 3 A (resistive load) |
| Contact Form | SPDT | DPDT |
| Minimum Power Application Time | 1 second |  |
| Voltage Tolerance | AF20: 100 to 240 V AC <br> AD24: 21.6 to 26.4VDC, 20.4 to 26.4VAC |  |
| Repeat Error | $\pm 0.2 \%, \pm 10 \mathrm{msec}$ |  |
| Voltage Error | $\pm 0.2 \%, \pm 10 \mathrm{msec}$ |  |
| Temperature Error | $\pm 0.2 \%, \pm 10 \mathrm{msec}$ |  |
| Setting Error | $\pm 10 \%$ maximum |  |
| Insulation Resistance | 100MW minimum |  |

## GT3F

| Mode of Operation | Rated Voltage Code | Time Range | Output | Contact | Optional Input | Complete Part Number |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 8-Pin | 11-Pin |
| True-Power OFF-delay | AF20: 100 to 240VAC (50/60Hz) | 0.1 seconds to 600 seconds | 250 V AC, 5A, | Delayed SPDT | Reset | GT3F-1AF20 | GT3F-1EAF20 |
|  |  |  | 30V DC, 5A (resistive load) |  |  | GT3F-1 AD24 | GT3F-1EAD24 |
|  | AD24. 24V AC/DC |  | 250 V AC, 3A, | Delayed DPDT | None (8p) | GT3F-2AF20 | GT3F-2EAF20 |
|  | AO24.24Vac/ac |  | 30V DC, 3A (resistive load) |  | 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

> GT3F-1 (8-pin)

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



## GT3F-2 Timing Diagrams



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.
$T=$ Set time
$\mathrm{Ta}=$ Shorter than set time
Ts $=1$ Second
$\mathrm{Tr}=$ Minimum Power Application Time
GT3F-1: 1 Second


## Timers

## 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.


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.

## 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

| Operation System |  |  |  | Solid state CMOS Circuit |
| :---: | :---: | :---: | :---: | :---: |
| Operation Type |  |  |  | Multi-Mode |
| Time Range |  |  |  | 1: 0.1 sec to 6 hours, 3 : 0.1 sec to 300 hours |
| Pollution Degree |  |  |  | 2 (IE60664-1) |
| Over Voltage Category |  |  |  | III (IE60664-1) |
| Rated Operational Voltage |  |  | AF20 | 100-240V AC(50/60Hz) |
|  |  |  | AD24 | 24 V AC(50/60Hz)/24V DC |
|  |  |  | D12 | 12 V DC |
| Voltage Tolerance |  |  | AF20 | 85-264V AC(50/60Hz) |
|  |  |  | AD24 | 20.4-26.4V AC(50/60Hz)/21.6-26.4V DC |
|  |  |  | D12 | 10.8-13.2V DC |
| Disengaging Value of Input Voltage |  |  |  | Rated Voltage $\times 10 \%$ minimum |
| Range of Ambient Operating Temperature |  |  |  | -10 to $+50^{\circ} \mathrm{C}$ (without freezing) |
| Range of Ambient Storage and Transport Temperature |  |  |  | -30 to $+75^{\circ} \mathrm{C}$ (without freezing) |
| Range of Relative Humidity |  |  |  | 35 to 85\%RH (without condensation) |
| Atmospheric Pressure |  |  |  | 80 kPa to 110 kPa (Operating), 70 kPa to 110 kPa (Transport) |
| Reset Time |  |  |  | 60 msec maximum |
| Repeat Error |  |  |  | $\pm 0.2 \%, \pm 10 \mathrm{msec} *$ |
| Voltage Error |  |  |  | $\pm 0.2 \%, \pm 10 \mathrm{msec} *$ |
| Temperature Error |  |  |  | $\pm 0.6 \%, \pm 10 \mathrm{msec} *$ |
| Setting Error |  |  |  | $\pm 10 \%$ maximum |
| Insulation Resistance |  |  |  | 100M $\Omega$ minimum ( 500 V DC) |
| Dielectric Strength |  |  |  | Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000 V AC, 1 minute Between contacts of the same pole:750V AC, 1 minute |
| Vibration Resistance |  |  |  | 10 to 55 Hz amplitude $0.75 \mathrm{~mm}^{2}$ hours in each of 3 axes |
| Shock Resistance |  |  |  | Operating extremes: $98 \mathrm{~m} / \mathrm{sec}^{2}$ (approx. 10G) Damage limits: $490 \mathrm{~m} / \mathrm{sec}^{2}$ (approx. 50G) 3 times in each of 3 axes |
| Degree of Protection |  |  |  | IP40 (enclosure), IP20 (socket) (IEC60529) |
| Power Consumption (Approx.) | AF20 | 100 V | C/60Hz | 2.3VA |
|  |  | 200V A | $\mathrm{C} / 60 \mathrm{~Hz}$ | 4.6VA |
|  | AD24 (AC/DC) |  |  | 1.8VA/0.9W |
| Mounting Position |  |  |  | Free |
| Dimensions |  |  |  | $40 \mathrm{Hx} 36 \mathrm{~W} \times 70 \mathrm{~mm}$ |
| Weight (Approx.) |  |  |  | 72 g |

## Contact Ratings

| Allowable Contact Power |  | 960VA/120W |
| :---: | :---: | :---: |
| Allowable Voltage |  | 250 V AC/150V DC |
| Allowable Current |  | 5A |
| Maximum permissible operating frequency |  | 1800 cycles per hour |
| Rated Load |  | 1/8HP, 240V AC |
|  |  | 3A, 240V AC (Resistive) |
|  |  | 5A, 120V AC/30V DC (Resistive) |
| Conditional Short Circuit |  | Fuse 5A, 250V |
| Life | Electrical | 100,000 op. minimum (Resistive) |
|  | Mechanical | 20,000,000 op. minimum |

## Timers

## Part Number List

## Part Numbers

| Mode of Operation | Output | Contact | Time Range* | Rated Voltage | Pin Configuration | New Part Numbers |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A: Sequential Start <br> B: On-delay with course and fine <br> C: Recycler and instaneous <br> D: Recycler outputs (OFF Start) <br> E: Recycler outputs (ON Start) <br> F: Interval ON <br> G: Interval ON Delay <br> H: Sequential <br> Interval | 3A, 240V AC <br> 5A, 120V AC/30V DC (Resistive Load) | $\begin{gathered} \text { Delayed } \\ \text { SPDT } \\ + \\ \text { Delayed } \\ \text { SPDT } \end{gathered}$ | 1: 0.1 sec - 6 hours *(See Time Range Settings for details.) | $\begin{aligned} & 100 \text { to } 240 \mathrm{~V} \text { AC } \\ & (50 / 60 \mathrm{~Hz}) \end{aligned}$ | 8 pin | GT3W-A11AF20N |
|  |  |  |  |  | 11 pin | GT3W-A11EAF20N |
|  |  |  |  |  | 8 pin | GT3W-A11AD24N |
|  |  |  |  |  | 11 pin | GT3W-A11EAD24N |
|  |  |  |  | 12 V D | 8 pin | GT3W-A11D12N |
|  |  |  |  |  | 11 pin | GT3W-A11ED12N |
|  |  |  |  | 100 to 240 V AC <br> (50/60Hz) |  | GT3W-A33AF20N |
|  |  |  |  | 24 V AC/DC |  | GT3W-A33AD24N |

1. For timing diagrams and schematics, see page 940 .
2. For socket and accessory part number information, see page 959 .
3. 8 - and 11 -pin models differ only in the number of pins (extra pins are not used).
4. For the timing diagram overview, see page 940
5. *For details on setting time ranges, see the instructions on page 941.

## Time Range Table

Timing Diagrams/Schematics


## Instructions: Setting GT3WTimer



1. The switches should be securely turned using a flat screwdriver 4 mm 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.


## 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 |  |  |
| 11-Pin Screw Terminal (dual tier) |  | $\begin{aligned} & \text { GT3A-1, 2, } 3 \text { (11-pin) } \\ & \text { GT3A-4, 5, } 6 \\ & \text { GT3F-1, } 2 \text { (11-pin) } \\ & \text { GT3W (11-pin) } \end{aligned}$ | SR3P-05 |  |  |
| 8-Pin Fingersafe Socket |  | GT3A-1, 2, 3 (8-pin) GT3F-1, 2 (8-pin) GT3W (8-pin) | SR2P-05C |  |  |
| 11-Pin Fingersafe Socket |  | $\begin{aligned} & \text { GT3A-1, 2, 3 (11-pin) } \\ & \text { GT3A-4, 5, } 6 \\ & \text { GT3F-1, } 2 \text { (11-pin) } \\ & \text { GT3W (11-pin) } \end{aligned}$ | SR3P-05C |  |  |
| 8-Pin Screw Terminal |  | GT3A-1, 2, 3 (8-pin) GT3F-1, 2 (8-pin) GT3W (8-pin) | SR2P-06 |  |  |
| 11-Pin Screw Terminal |  | $\begin{aligned} & \text { GT3A-1, 2, 3 (11-pin) } \\ & \text { GT3A-4, 5, } 6 \\ & \text { GT3F-1, } 2(11 \text {-pin) } \\ & \text { GT3W (11-pin) } \end{aligned}$ | SR3P-06 |  |  |

DIN Rail Mount Socket


Panel Mount Socke


## Timers



## 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.)


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 1 V when the contacts are closed.


For transistor input, use transistors with the following specifications; VCE $=40 \mathrm{~V}$, VCES $=1 \mathrm{~V}$ or less, IC $=50 \mathrm{~mA}$ or more, and ICBO $=50 \mu \mathrm{~A}$ or less. The resistance should be less than $1 \mathrm{k} \Omega$ 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 30 V 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 <br> output status. | No-voltage contact inputs and NPN open collector <br> transistor inputs are applicable. |
| :--- | :--- | :--- |
| Reset Input | When the reset input is activated, the time is reset, and <br> contacts return to original state. | 24V DC, 1mA maximum |
| Gate Input | The time-delay operation is suspended while the gate input <br> is on (pause). | Input response time: 50msec maximum |

## 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 $\mathrm{A}, \mathrm{B}, \mathrm{C}$ or U )
The socket to be used with these timers are rated:
-Conductor Temperature Rating $60^{\circ} \mathrm{C}$ min
-Use 14AWG max.(2mm²max.) Copper conductors only
-Terminal Torque 1.0 to $1.3 \mathrm{~N}-\mathrm{m}$

Analog GT3 Timer, 8-Pin with SR2P-06


## Analog GT3 Timer, 11-Pin with SR3P-06



Panel Mount Adapter

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



## Mounting Hole Layout



Tolerance: +0.5 to 0 N : No. of timers mounted

## GT3 Timer, 8-Pin with SR6P-M08G



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