## CG series

## CMOS IC Time Delay Relay

- Repeatability to .05\%
- Choice of timing modes
- Delay on operate
- Delay on release
- Interval on
- Knob adjustable
- 10A output relay with DPDT contacts
- Various models time from 0.5 sec . to 100 min .


## T File E22575

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Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

## Contact Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$

Arrangements: 2 Form C (DPDT).
Material: Silver-cadmium oxide alloy.
Rating: 10A @ 30VDC or 277VAC, resistive; 1/2 HP @ 250VAC; 1/3 HP @120VAC.
Expected Mechanical Life: 10 million operations.
Expected Electrical Life: 100,000 operations, min., at rated load.

## Initial Dielectric Strength

Between Open Contacts: 500 V rms, 60 Hz .
Between All Other Conductors: 500 V rms, 60 Hz .

Input Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$
Voltage: 120VAC and 24VDC.
Power Requirement: AC Types: Typically less than 3 VA.
DC Types: Typically less than 3 W .
Transient Protection: Yes.
Reverse Voltage Protection: Yes.
Input Voltages \& Limits @ $25^{\circ} \mathrm{C}$

| Voltage <br> Type | Nominal <br> Voltage | Minimum <br> Voltage | Maximum <br> Voltage |
| :---: | :---: | :---: | :---: |
| AC | 120 | 105 | 130 |
| DC | 24 | 20 | 32 |

Note: DC voltage must be filtered (5\% p-p ripple max. at nom. voltage).
AC models will operate on 50 or 60 Hz .

## Environmental Data

Temperature Range: Storage: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$.
Operating: $-10^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$.

## Mechanical Data

Termination: 8- or 11-pin octal style plug.
Enclosure: Yellow plastic case. Knob adjustable types have dial scale for reference only.
Sockets: Models with 8-pin base fit either 27E122 or 27E891 (snap-on) screw terminal sockets. 11-pin types fit either 27E123 or $27 E 892$ (snap-on) screw terminal sockets.
Weight: 8 oz ( 227 g ) approximately.

## Timing Specifications

Timing Ranges: From 0.5 to 5.0 sec . through 10 to 100 min .
Timing Adjustment: Knob adjustable.

## Tolerance (for AC units add $\pm \mathbf{1 / 2}$ cycle $\mathbf{6 0 ~ H z}$.):

Knob Adj. Types:-0, $+10 \%$ of max. specified at high end of timing range; $+0,-10 \%$ of $\min$. specified at low end.
Delta Time (for AC units add $\pm \mathbf{1}$ cycle $\mathbf{6 0 ~ H z . ) : ~} \pm 2 \%$, typ.; $\pm 5 \%$, max.
Repeatability (including first cycle of operation):
AC: $\pm 0.1 \%$, typ.; $\pm 0.5 \%$, max.; but not less than $\pm 16 \mathrm{~ms}$.
DC: $\pm 0.05 \%$ typ.; $\pm 0.1 \%$ max.; but not less than $\pm 3 \mathrm{~ms}$.
Release Time: 30 ms , typ.; 45 ms , max.
Recycle Time: AC: 40 ms , typ.; 60 ms , max.
DC: 30 ms , typ.; 45 ms , max.

Specifications and availability
subject to change.

Ordering Information - Authorized distributors are more likely to stock boldface items listed below.

Delay on Operate Models

| Voltage | Time | Adjustment | Wiring Dia. | Part Number |
| :---: | :--- | :--- | :---: | :---: |
| 120VAC | 0.5 to 5 Min. |  |  |  |
|  | 1 to 10 Min. | Knob | 1 | CGB-38-70005M |
|  | 5 to 50 Min. |  |  | CGB-38-70010M |
|  | 10 to 100 Min. |  |  | CGB-38-70050M |
| 24VDC | 5 to 50 Min. | Knob | 1 | CGD-38-70100M |

## Delay on Release Models

| Voltage | Time | Adjustment | Wiring Dia. | Part Number |
| :---: | :---: | :---: | :---: | :---: |
| 120VAC | 1 to 10 Min. <br> 5 | Knob | 2 | CGB-38-78010M <br> CGB-38-78050M |

Interval on Models

| Voltage | Time | Adjustment | Wiring Dia. | Part Number |
| :---: | :---: | :---: | :---: | :---: |
| 120VAC | 0.5 to 5 Sec. <br> 1 to 10 Min. | Knob | 1 | CGB-38-79005S <br> CGB-38-79010M |
| 24VDC | 1 to 10 Min. | Knob | 1 | CGD-38-39010M |

Outline Dimensions


Wiring Diagrams - Bottom Views (pins numbered clockwise from keyway)


* If control switch is closed when power is applied, relay will immediately energize. A 50 millisecond minimum switch closure is required. IMPORTANT: a dry circuit switch is recommemded. A "dry circuit" switch is one rated to reliably switch currents of less than 50 mA . Use of a switch rated for other than dry circuit may result in failure of the time delay relay to function properly.
** Note: input polarity for DC operation. For most reliable operation on AC, connect high side to " + " and low side to " - "


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