

Thank you for choosing our Autonics product Please read the following safety considerations before use.

## $\square$ Safety Considerations

| ※Please observe all safety considerations for safe and proper product operation to avoid |
| :--- |
| hazards. |
| $\times \Delta$ symbol represents caution due to special circumstances in which hazards may occur. |

$\triangle$ Warning Failure to follow these instuctions may result in serious injury or death
$\triangle$ Caution Failure to follow these instrucions may result in personal iniur or product damage.
$\triangle$ Warning
(Fail-safe device must be installed when using the unit with machinery that may cause
serious injury or substantial economic loss (e.g. . nuclear power contro, medical equipment


Jalure to tollow this instruction may result in fire, Do not connect, repair, or inspect the unit while connected to a power source.
Failure tofollow this instruction may result in frie
Check Connections before wiring.
Failurut tofolow this instruction may result in fir
R.in ont disassemble orr modify the unit
Doonot disassemble or modify the unit
Failure to of oflow this instuction may result in fire

## $\triangle$ Caution

Use the unit within the rated specifications.
Failure to forlow this instruction may result in or op product damage
Failur to tort the low liad.
Fitrction may result in product damage by fre
Do not use the unit in the place wherify may be present



## Ordering Information

| mGA50S | 8 | 1024 | 1 | R |  | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| Series | ${ }_{\text {diameter }}^{\substack{\text { Shat } \\ \text { dien }}}$ | Pusoseslition | Output oode | Revolution directio | Contro output | tPower supply |
| $\begin{aligned} & \text { Diameter } \\ & \text { Dosomer } \\ & \text { Shat type } \end{aligned}$ | ø8mm | Refer to resolution | 1: BCD code 2: Binary code <br> 3: Gray code | F: Output value | $\mathrm{N}: \begin{aligned} & \text { NPN open } \\ & \text { collector } \\ & \text { output } \end{aligned}$ | $\left\lvert\, \begin{gathered} 5: 5 \mathrm{FDC} \pm 5 \% \\ 24: 12-24 \mathrm{VDC} \\ \pm 5 \% \\ \pm 5 \% \end{gathered}\right.$ |

$\square$ Control Output Circuit


The output of each bitis same iricuit. $\times$ The above specifications are subject to change and some models may be discontinued Withour notice.
Be sur ot ofol cautions written in the instruction manual, and the technical
descriptions
(catalog, homepage).

(0)


$\square$ 32-Division Output Waveform (BCD Code Output)

$\square$ 32-Division Output Waveform (Binary Code Output)







(The above waverormis based on the positive logicic
(The ouvefirm of negative logic is opposed.)
$\square$ 1024-Division Output Waveform (BCD Code Output)


■ 1024-Division Output Waveform (Binary Code Output)


※The above wave form is based on the positive logic.
(The output waveform of negative logicic is oposesed.


$\underset{\text { Sinder dubl }}{\text { SNon-using wires must be insulated. }}$



## $\square$ Cautions during Use

. Follow instructions in 'Cautions during Use' Othemise It may cause unexpected
accidents.
$5 \mathrm{VDCC}, 12-2 \mathrm{VDC}$
power supply should be insulated and linited voltage/current or class 2 . SELV power supply device.
For using the unit with the equipment which generates noise (switching regulator, inverter
servo motor, etc.)., ground the shield wire to the F. F. terminal.
Ground the shiel wire to the
When using switching mode power supply, frame ground (F.G.) terminal of power supp.
should de grounded
should be grounded.
Wire as short as poss
Wire as short as possible and keep away from high voltage lines or power lines,
to prevent inductive noise.
.Check the wire type and response freauency when extending wire because of distortion of
waveform or residual voltage increment etc by line resistance or capacity between lines. waveform or residual voltage increment etc by line resistance or capacity between lines.
This unit may be used in the following environments.
Olndoors (in the environment condition rated in 'Specifications')
(®Altitude max. $2,000 \mathrm{~m}$
(®P) Iution degree 2
@Polution degree 2
©instalation category

## $\square$ Major Products

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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- Contol Swithesslampselizzers

- Craphiclogic Panels

Avtonics corporation



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