## MU Series

INSTRUCTION MANUAL

## TCD210224AB

Thank you for choosing our Autonics product.
ead and understand the instruction manual and manual thoroughly befor sing the product.
or your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.
reep this instruction manualin a place where you can find easily.
he specifications, dimensions, etc. are subiect to change without notice for product Follow Autonics website for the latest information.

## Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards $\triangle$ symbol indicates caution due to special circumstances in which hazards may occur
$\triangle$ Warning Failure to follow instructions may result in seeious injury ordeath.

1. Fail-safe device must be installed when using the unit with machinery tha may cause serious injury or substantial economic loss. (e.eg. nuclear power aptro, medical equipment, ships, venicles, railways, aircraft, combus apparatus, safeytequipment, crime/disaster prevention devices, etc.)
Failure to ofolow this is instuction may result in personal iniury, economic loss of fire
2. Do not use the unit in the place where flammable/explosive/corososive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
3. Do not disassemble or modify the unit.
4. Do not connect, repair, or inspect the unit while the load is connected to a power source.
5. Check‘Connections' before wiring result in fire.
6. Check 'Connections' before wiring.
$\triangle$ Caution Failure to follow instructions may result in injury or product damage.
7. Use the unit within the rated specifications.
8. Usaiure to dry flow thoth to cleantruthion miny result in fire or product damage.

Failure to follow this instruction may result in fire.
03. Make cable length as short as possible.
04. Do not it install the switch on the magnetic object or in the environment of ferromagnetic fields. Use bolt and nut of stainless steel or nonmagnetic material, when installing the switch.

distance. | to follow this instruction may result in malfunction or affect sensing |
| :--- |

5. Do not use a load over the range of rated relay specification.

Failure to follow this instruction may result in fire, relay broken, contact melt,

## Cautions during Use

- Follow instri
accidents.
accidents. mafunction
Use the slow mode filterto avoid bounceand chattering Bounce and chattering
may occur when high-speed mode ( $\leq 1 \mathrm{~ms}$ ) filter is applied.
- his unit may be used inthe following environments.
-Altitude max. 2,000 m
Pollution degree 3
Product Components


## Dimensions

- Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.
- ми-■-30



## Connections



## Cautions during Installation

stall the productaccording to the rated specifications, environment, and place nstalling more than 2 switches closely may result in malfunction due to mutual interference.
ce between units.

$\square$ Magnetic object


Install the switch to the position where the center of the switch and the target be exactly horizontal and vertical.


- fit is hard to align along the center line, install the switch to the position where the arget is closer to the switch part, rather than magnet part. therwise, the target can be eatlached to the magnet part, so thatit can result in
Mi: Switch
nstall the switch to the position where the target passes the sensing point area.
Sensing point area: area between 30 mm point and 40 mm point from the end of the
max min ${ }^{\circ}$

$$
\begin{aligned}
& \text { switch } \\
& \text { Sensing point rea }
\end{aligned}
$$

