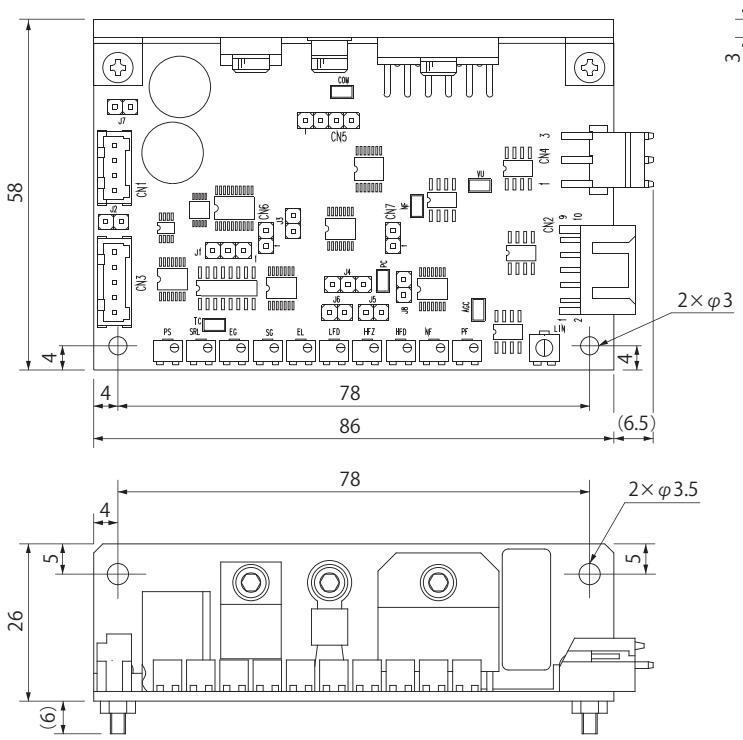
# GVD0

## External Layout Drawing

(Unit : mm)




## Specifications

| Model | | GVD0 - ✱✱✱✱✱✱ - ✱✱ |
|---|---|---|
| Power | Power Voltage | ± 15V or ± 24V |
| | Maximum Operating Current | 2.5A RMS |
| | Peak Current | 10A |
| Command Signal Input | Voltage (Differential) | ±3V／±5V／±10V |
| | Input Impedance | 20kΩ (At differential input) |
| Monitor Output | Position Output | ±1.5V／±2.5V／±5V |
| Function | Input Signal | Servo ON |
| | Output Signal | Ready |
| | Protection | Over heating |
| | | Over positioning |
| | | Over current |
| | | Sensor error |
| Ambient Temperature Range | | 0℃ to +50℃ |
| Dimension | | 93 x 57.5 x 31 mm |
| Weight | | 60g (with heat sink) |

Our Galvanometer Optical Scanner Servo Drivers (GVD Series) have two options in control system : P Control and PI Control Systems.
Please read the following description of the control systems and select one according to the application.

P Control :
This control will output signal which is proportional to the differential by comparing position feedback and command signal.
The scanner responds fast and settles position quickly because servo closed loop band becomes high by not integrate the time.
In case of distortion or friction, a position error may occur against the command.

PI Control :
This control will output signal which is proportional to the differential by comparing position feedback and command signal, and integrate the time of differential.
Therefore, it is possible to maintain a stationary state (a state with extremely small position error) regardless of distortion or friction.
This integration provides very high position repeatability.

Please select P Control if you are focusing on high speed of settling time, or PI control for high position repeatability.

## Model Number

GVD0 / 1 / 2 - 0 0 0 0 0 0 - **

**Power Voltage**
0 : ±15V
1 : ±24V

**Control System**
0 : P Control
1 : PI Control

**Command Voltage**
0 : ±10V
1 : ±3V
2 : ±5V
C : Customized Voltage

**Mechanical Angle**
0 : ±10° Bumpers set for ±10° scanning
1 : ±5° Bumpers set for ±5° scanning
2 : ±7.5° Bumpers set for ±7.5° scanning
3 : ±12.5° Bumpers set for ±12.5° scanning
4 : ±15° Bumpers set for ±15° scanning
5 : ±20° Bumpers set for ±20° scanning
C : Customized / Bumpers set for customized angle

**Scanner Type**
0 : 0930S
1 : 0930L
2 : 1445S
3 : 1445L
4 : 2260
5 : 2280
6 : 2510

**Beam Diameter** (Mirror size)
0 : φ3mm
1 : φ5mm
2 : φ7.5mm
3 : φ10mm
4 : φ12.5mm
5 : φ15mm
6 : φ20mm
7 : φ30mm
C : Customized Size

**Registered Custom Number**
No Number : Standard Product
*It is only used for customized products