HE Series

OutLine

The new HE series Handy MPG is a smart ergonomic design that provides a compact and sleek shape. In order to comply with IEC safety regulations, both sides are able to install a 3-position enabling switch. The front panel can be equipped with a emergency push button and two other related function push buttons. In order to facilitate the use of both large and small machines, this Handy MPG is also specially designed with an LCD display for the convenience of the operator to operate nearby.

Features Description

- Ergonomically designed and compact to be held with one hand

- 3-position (OFF-ON-OFF) enable safety or normal push button switch can be mounted on both sides

- LCD display is an option for this HE model

- LCD screen data display can be connected through I/O and communicate with CNC controller

- HE series are available for Fanuc, Mitsubishi and Siemens

- Newly developed 6mm shaft EPP rotary switch or digital code switch is available for selection. The mechanical durability and electrical life of these switches are greatly enhanced due to the new design.

- Strong plate magnet is available as standard on the back side

- RoHS compliant

- IP65 box structure

- Provide customerized "LOGO"

Body

Operating Temperature	0℃~+60℃（can't with condensation）
Storage temperature	-10℃~+70℃（can't with condensation）
IP Rating	IP65
LED light	24Vdc

Rotary Encoder Unit

Pulse	100 pulse /rotation、25 pulse/rotation
Click	100 clicks/rotation
Input Voltage	5Vdc
	12Vdc
	5V(Differential output)
	24V(Optocoupler Output)
Rotational Durability	Over 1,000,000 times
LOGO	Logo available on the wheel cover

Selector swtches

Output	Digital code
	Switch (Max up to 7 segments)
Text	Standard or upon request
Durability	At least 50,000 strokes

Curl/straight Cords

Length	2M(19 core)
	3M(19 or 25 core)
	4M(19 core)
	5M(19 or 25 Core)
Other	Available upon request

LCD Display Screen

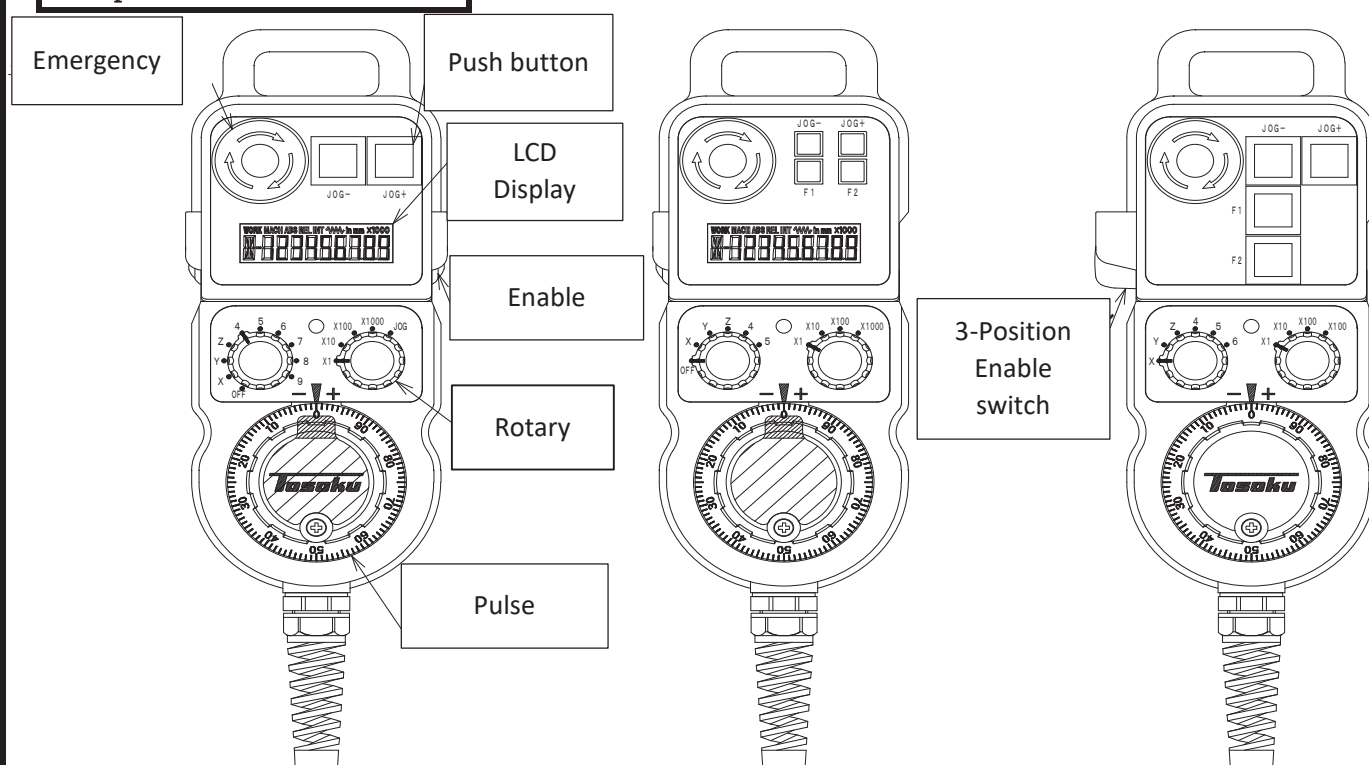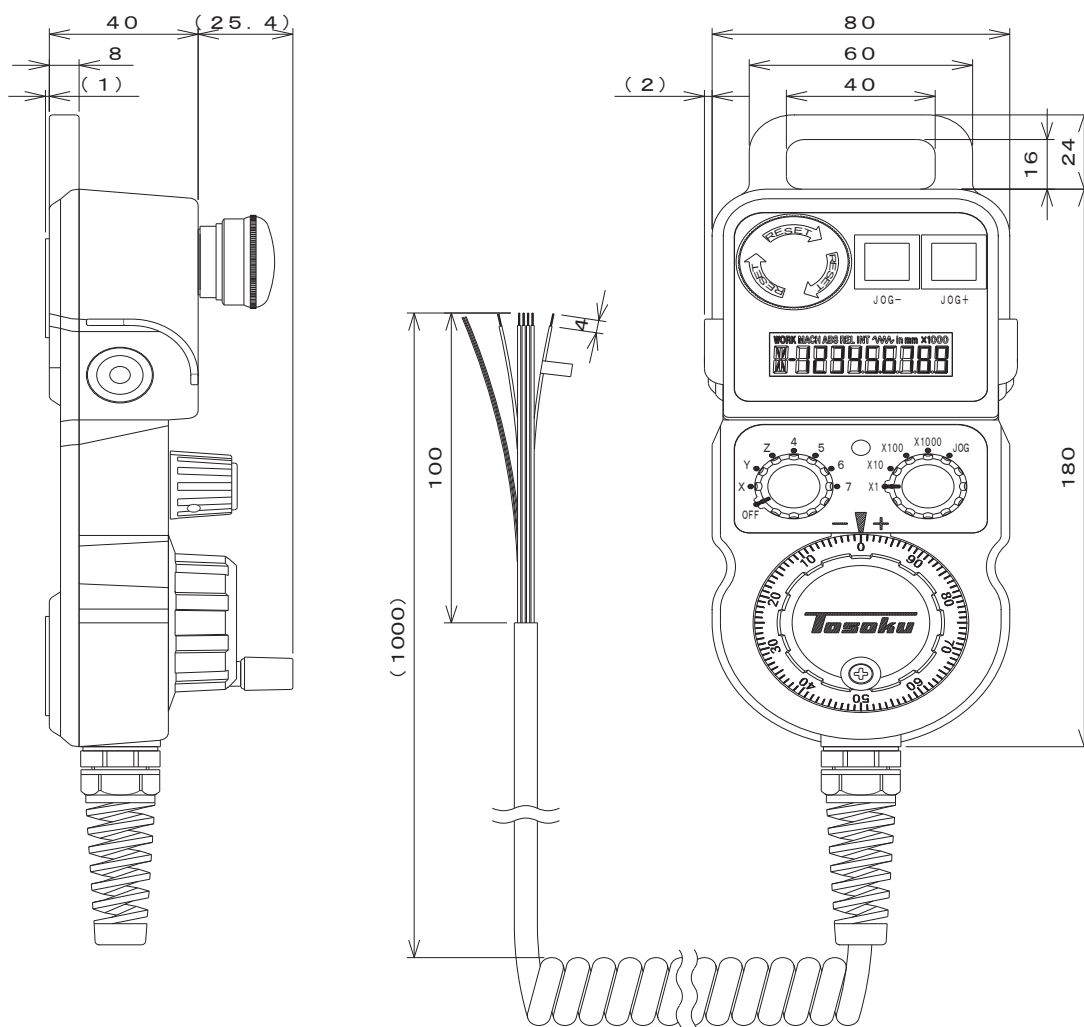|	
Input Voltage	24V±10%, under 300mA
Input	Rated 10mA(Under 50mA)

Funtional Push button Option

The maximum push button can be designed on the operating panel is: EMG *1, Enable *2, Special function * 2
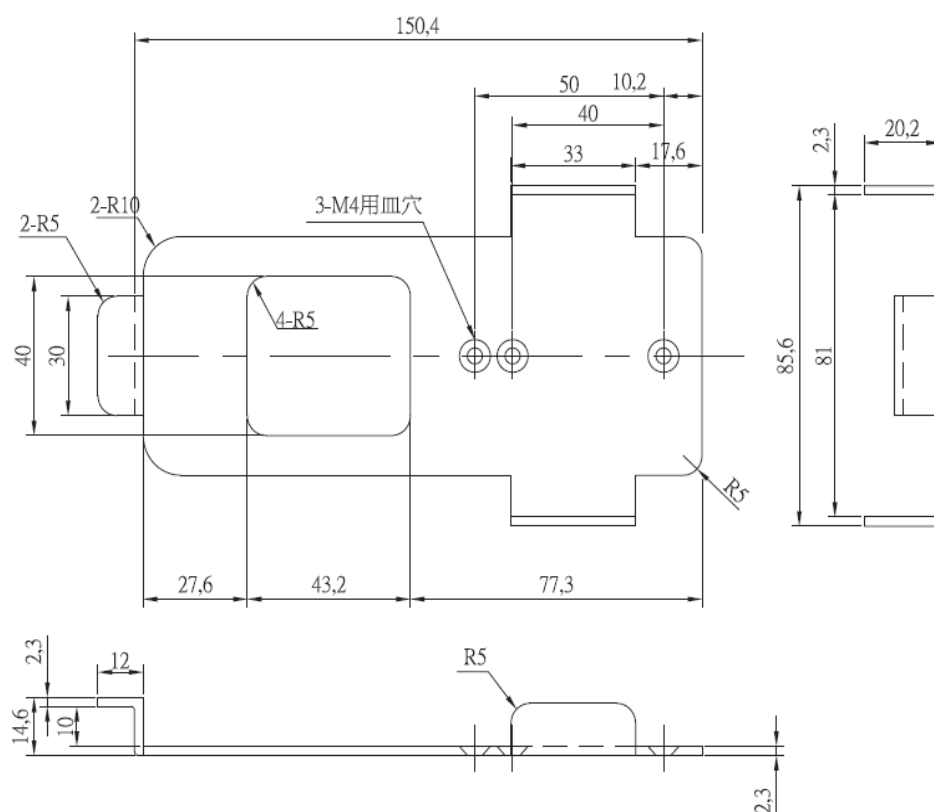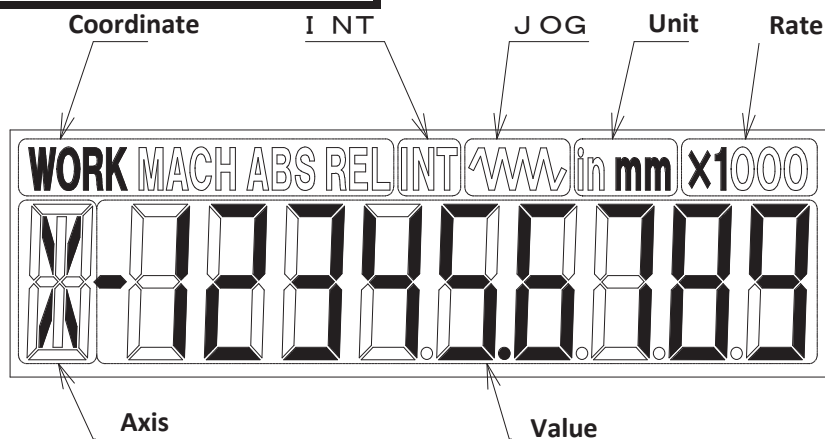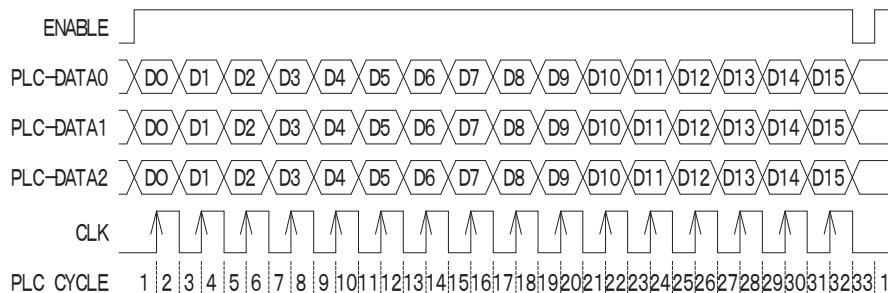
Example

Emergency

Push button

LCD Display

Enable

Rotary

Pulse

3-Position Enable switch

External Dimension

Mounting Plate

LCD Display screen

		LCD Display Contents
1	**Axis**	A~Z , 0~9
2	**Value**	−999999999 ～ 999999999
3	**Coordinate**	WORK　MACH　ABS　REL (ワーク座標)(機械座標)(絶対座標)(相対座標)
4	**Rate**	×1　×10　×100　×1000
5	**Unit**	in　mm
6	**JOG**	⋀⋁⋀
7	**INT**	INT

Transfer data for display

	D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
PLC-DATA0	**Value** upper 16 bits)															
PLC-DATA1	**Value** lower 16 bits)															
PLC-DATA2																

```
PLC-DATA2 D15,14,13 = 000:*********      100:*****.****
                      001:********.*     101:****.*****
                      010:*******.**
                      011:******.***

PLC-DATA2 D12,11   = 00:WORK 01:MACH 10:REL 11:ABS
PLC-DATA2 D10      = 0:mm    1:in
PLC-DATA2 D9~7     = 000:×1 001:×10 010:×100 011:×1000 100:JOG
PLC-DATA2 D6~1     = D6~D1に格納したデータにより、軸名を表示する。
                     000000 ~ 001001 : 0 ~ 9
                     010000 ~ 101011 : A ~ Z
PLC-DATA2 D0       = 0:None   1:INT
```