

# HJ77 Series Multi Axis Joystick

## Product Features

- Ergonomic design, mainly for aerial work scissors vehicle design application.
- Non-contact Hall sensor is used to detect the operating Angle.
- Spring return type handle in the form of single axis front and rear direction operation Various output option.
- The upper end type and the signal type can be customized
- expand the CAN bus output

## Application

This series of products are mainly used in aerial work shearing forklift, can be extended

## Technical Information

### Electrical data

Hall	
Power supply	$5 \pm 0.5\text{Vdc}$
Supply current (nominal power supply)	$<11\text{ mA}$ (Single axis), $<22\text{mA}$ (Dual-axis)
Maximum allowable overload voltage	$20\text{Vdc}$
Reverse maximum allowable voltage	$-10\text{Vdc}$
Output linearity tolerance	$<\pm 0.1\text{V}$

### Mechanical features

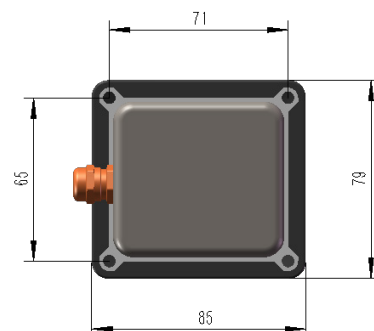
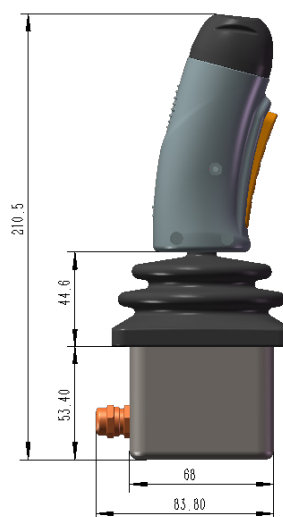
Travel angle	$\pm 20^\circ$
Operating type	Spring return
Breakout force	5N
Operating force (max)	11N
Maximum allowable force	$>300\text{N}$
Expecting life	$>2\text{million cycles}$ (Hall effect)
Weight	about 560g (With handle )

### Environmental data

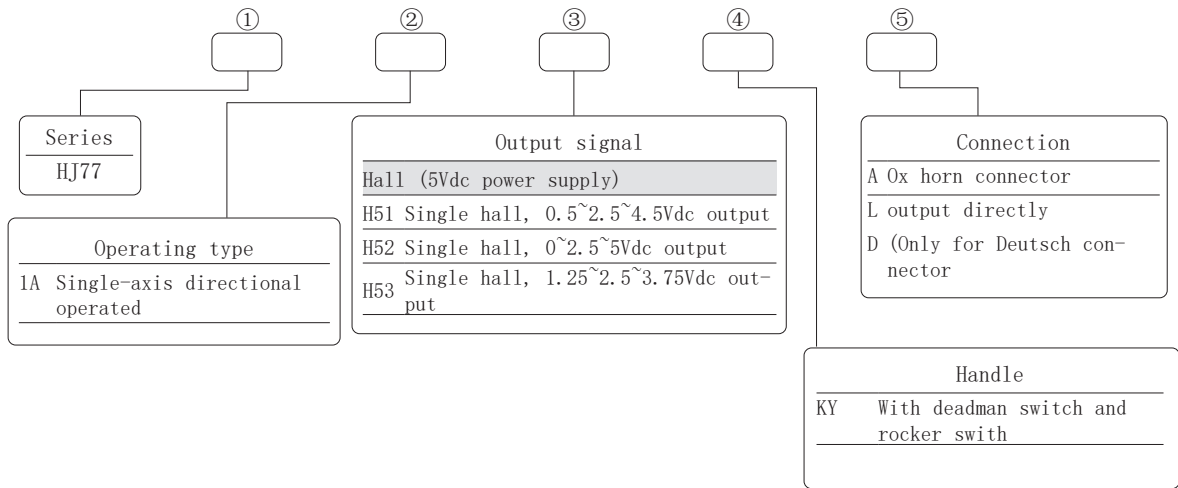
Operating temperature	$-30^\circ\text{C} \sim +70^\circ\text{C}$
Storage temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$
Protection level	IP66 (Above the flange)



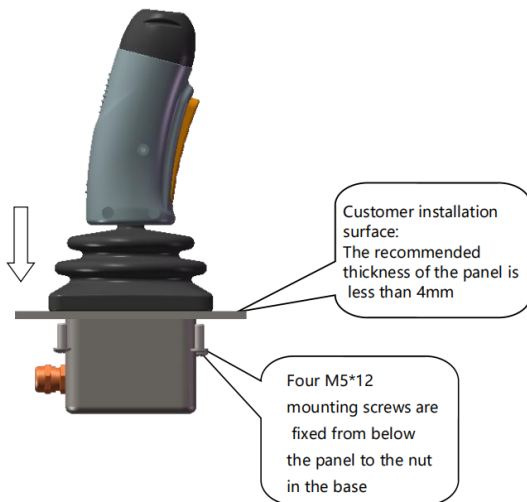
Dimensions



## Product Configuration



## Product Installation



## Electrical Connections

14pin		
pin	Color	Function
1	Grey	Y-axis (forward and backward)
2	Yellow	Y-axis Redundant output (forward and backward)
3	Blue	Common terminal of Rocker switch
4	Blue	Deadman switch
5	purple	Deadman switch
6	Black	Rocker switch (left)
7	Red	Rocker switch (right)
8~11	--	--
12	White	Power supply 5v
13	Brown	0V
14	--	--