

# SJ200 Industrial Joystick

## Product Features

- All metal construction, fully sealed design.
- Single-axis friction position, median with zero self-locking.
- Long life, OMRON switch.
- Electrification current up to 125V, 5A with reliable performance
- With excellent waterproof, moisture-proof, shock-proof performance.

## Application

SJ200 industrial joystick, is mainly used in hydraulic proportional control and variable frequency motor control.

## Information

### Environment Parameter

Storage temperature	-50°C~+80°C
Operating temperature	-40°C~+80°C
Protection grade	IP64
Vibration	Amplitude $\pm 3g$ , frequency 10Hz-200Hz
Shock	20g, 6ms, Semi-sinusoidal
EMC anti-interference rank	100V/m, 30MHz-1GHz, 80% Sine-wave modulation, meet EN 0082-2 (1995) standard

EMC emission rank	Rank B, 150KHz to 30MHz, meet EN 50081-2 (1993) standards
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ESD anti-interference grade	Rank 4, 8kv contact discharge, 15kv air discharge, meet IEC 61000-4-2 standards
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### Mechanical Parameter

Mechanical angle	Potentiometer: $\pm 32^\circ$ , Hall: $\pm 20^\circ$
Operating torque	5N (50Nmax)
Mechanical life	5 million
Mechanical error	$\pm 0.5^\circ$

### Electrical Parameters

#### Hall

Power supply voltage	$5 \pm 0.5VDC$
Power consumption of current	6.5 mA/hall sensor
Resolution ratio	Infinite
Maximum voltage	15 VDC
Reverse polarity maximum voltage	14.5VDC

Load resistance	5K $\Omega$
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Median voltage (no-load)	48~52%Vs
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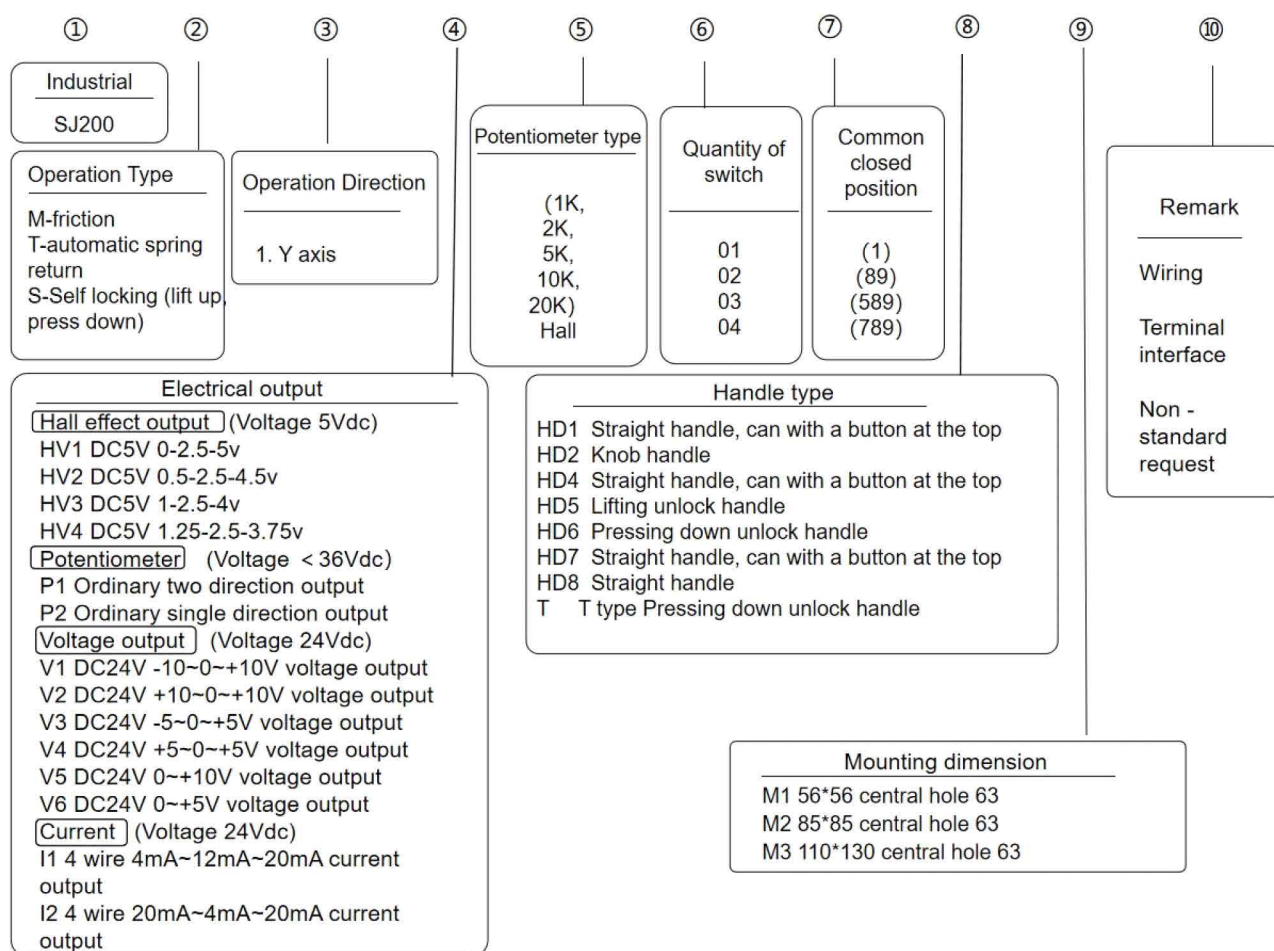
#### Potentiometer

Power supply voltage	DC24V
Power supply current	<20mA
Resolution ratio	Infinite



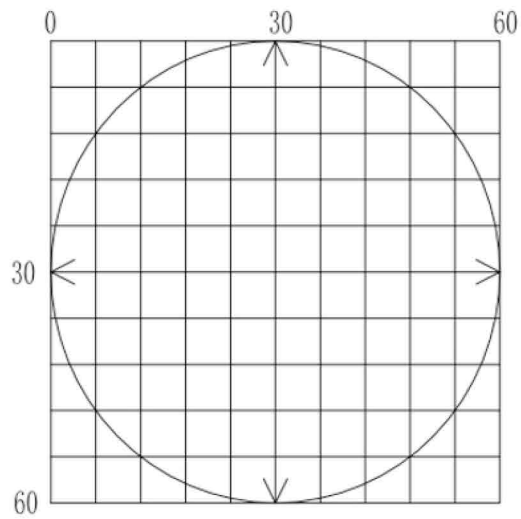
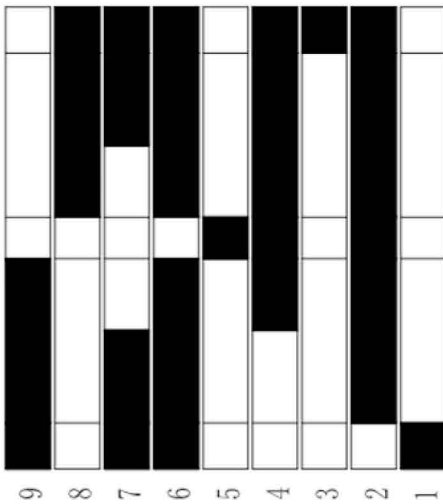
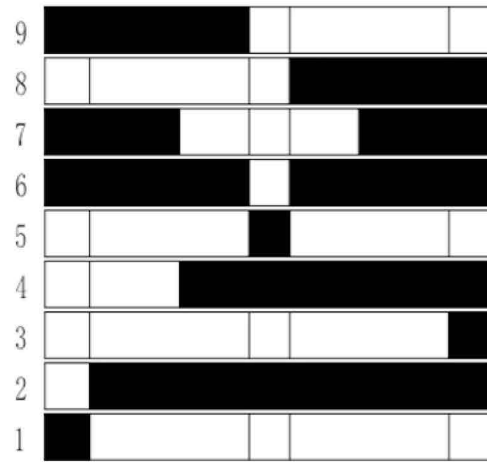
Resistance (10%)	1K $\Omega$ ,2K $\Omega$ ,5K $\Omega$ ,10K $\Omega$ ,20 K $\Omega$
Electrical angle	$\pm 32^\circ$
Output voltage range (relative voltage)	0~100%; 10~90%
median voltage	48%~52%
Potentiometer maximum load of voltage	32VDC
Maximum power consumption (25 $^\circ\text{C}$ )	0.25W
Switch direction	Switch position $\pm 3^\circ$

## PRODUCT CONFIGURATION



## Product Installation

Entity on behalf of the switch is closed



Vertical text: Analog output refer to following figure

Horizontal text: Analog output refer to following figure

