

Integrated module, sensor, encoder, potentiometer, switch customization manufacturer.

MODEL:WDC-35

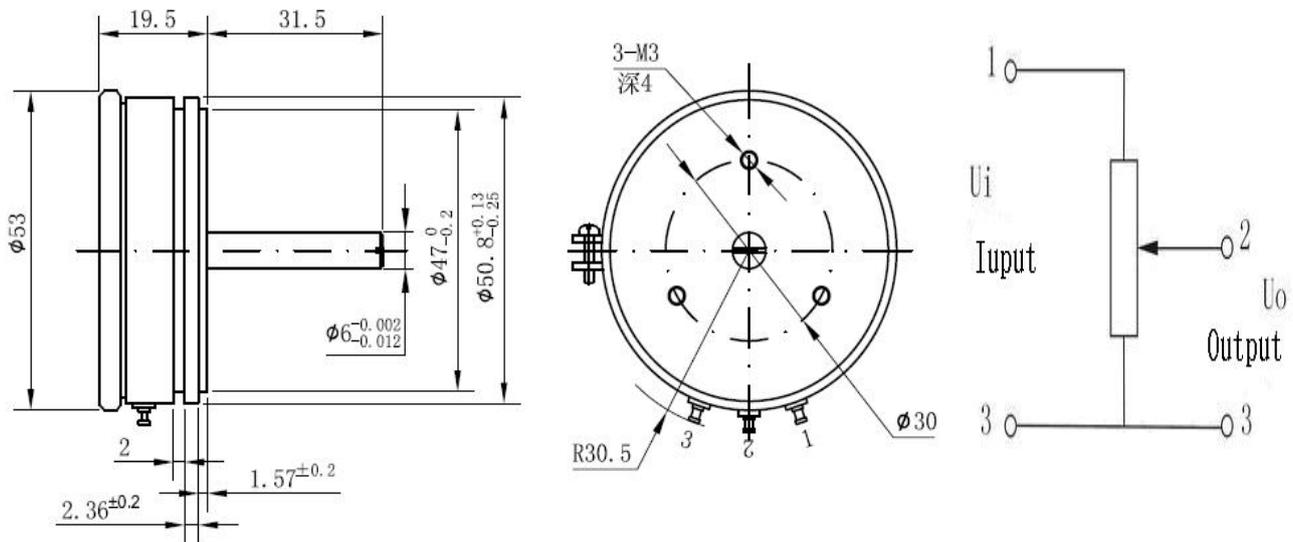


Feature:

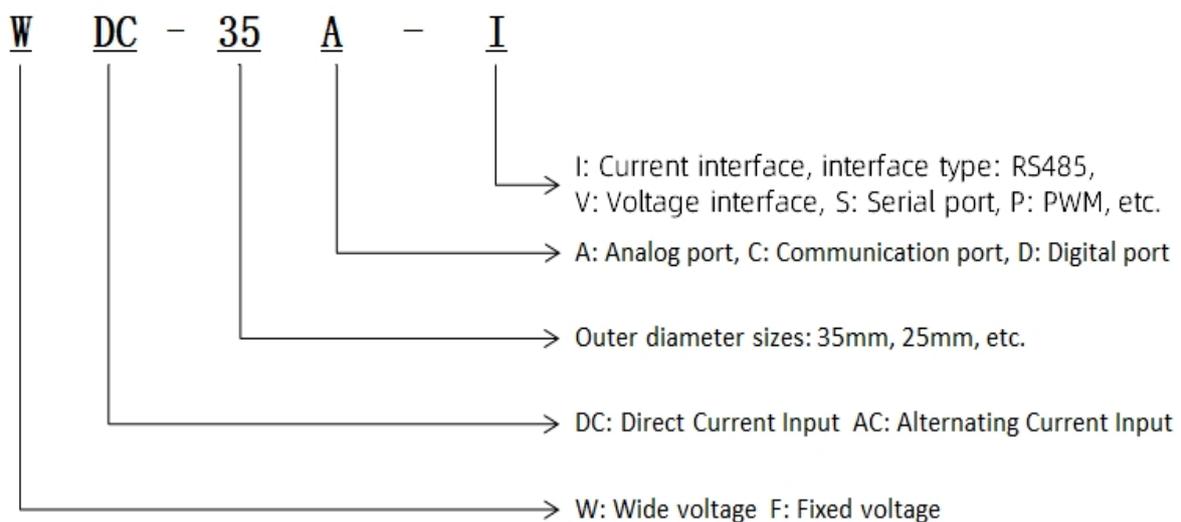
- Non-contact Digital Potentiometer
- The internal mechanical core components are made of imported stainless steel with dual bearings, featuring high precision and long service life.
- Electrical angle selection is available at will, and customization is possible.
- Outlet method: Side terminals for connection.

Applications: Wind vane, mechanical arm, car accelerator pedal, car steering wheel angle detection, excavator arm rotation angle, forklift steering, game arm, and various angle detection devices.

Standard Dimensions



Naming Method



Electrical Connection

Outlet Name	Outlet Connection
VCC	15-35V DC power supply +
GND	15-35V DC power supply -
OUT	4-20mA current output terminal

General Specifications

General Parameters			
Mechanical Travel	360° (endless)	Mechanical life	Theoretically infinite (depending on bearing life)
Working temperature	-30°C~ +80°C	Weight	About 60g
Storage temperature	-30°C~ +80°C	Shell	Aluminum alloy, surface anodizing
Rotational torque	<5mN·m	Shaft	Stainless steel
Protection level	IP54	Bearings	Two sets of precision ball bearings

Electrical Performance

Electrical angle	360°	Working voltage	15~35V
Independent linear tolerance	Standard grade: 0.3%; Precision grade: 0.2%; Ultra-precision grade: 0.1%	Output signal	4~20mA
Resolution	The minimum graduation of 4096 (12-bit) is 0.088°, and the minimum graduation of 16384 (bits) is 0.022°, with both options available.	Maximum working current	<35mA
Start-end output deviation	<0.05mA	Load resistance	<500Ω

Optional Features

Electrical Part		Mechanical Part	
Output range	Standard output: 0 ~100% (customizable)	Special torque	We can offer products with a light torque of <0.5mN·m or high torque of <30mN·m.
Output direction	The standard is for clockwise signal output, and it can also be set to counterclockwise signal output.	Special protection level	Special products with protection level of IP54 or above can be provided.
Other output methods	Current is such as: 4~20mA output; Voltage is such as: 0~5V, PWM output, etc.		
Special shaft type	Special shaft lengths, special shaft diameters, or special processing on the shaft can be provided according to customer requirements.		