



DNA

Drive & Acquisition Systems

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Sensors



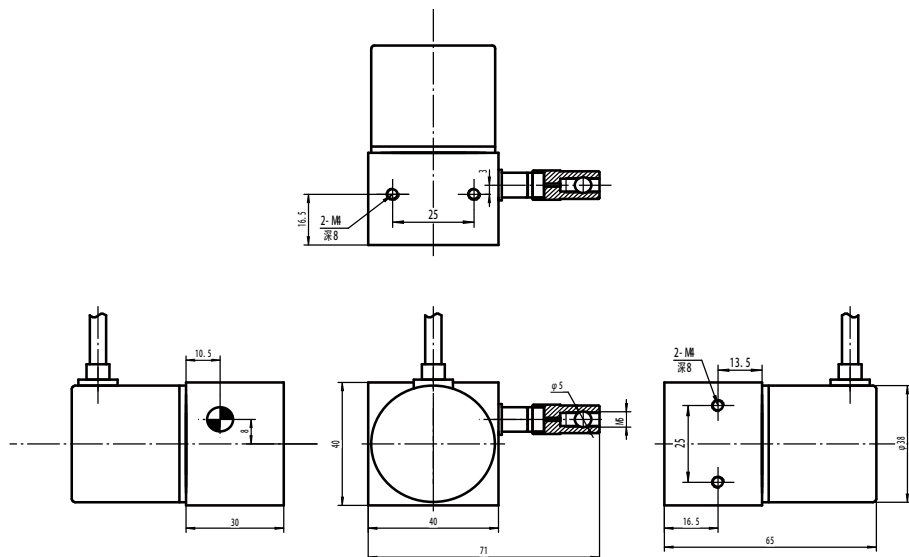
Product Selection Guide

SLC40D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 600mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001mm / pulse in maximum. Working temperature: -30°C to $+90^{\circ}\text{C}$.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver (5V)	Wide Voltage Line Driver (8-26V)
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.05	0.025	0.02	0.01	0.008
Encoder Resolution (ppr)	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

Mechanical Specifications

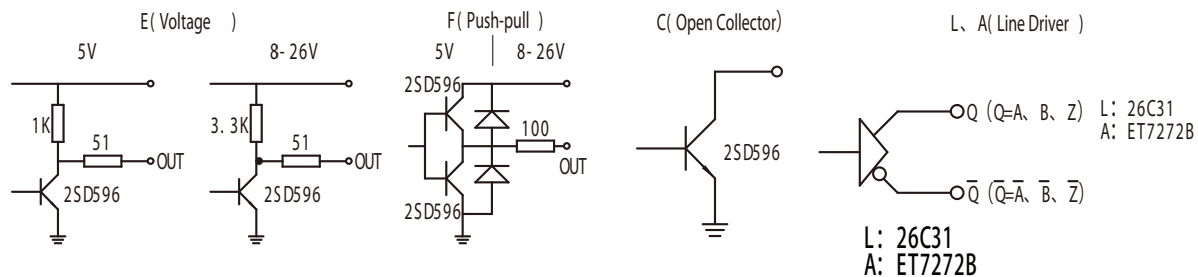
Measuring Range	0——600mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

Enviromental Specifications

Temperature Range	-30℃——90℃
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.255

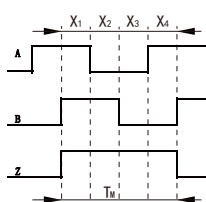


Output Circuits

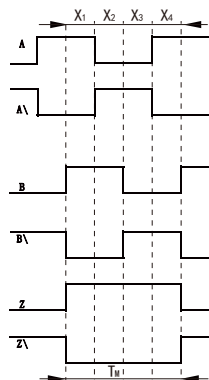


Note: C,F output is shorted to ground protection diode

Output Waveform



Waveform for C, E, F output



Waveform for L, A output

Wave Ratio : $X1+X2=0.5T \pm 0.1T$
 $X2+X3=0.5T \pm 0.1T$
 Phase Different : $Xn \geq 0.125T$ ($n=1, 2, 3, 4$)
 Absolute Angle Error: $\leq 0.2T$
 Cycle Error : $\leq 0.05T$
 $T=360^\circ / N$ (N =lines count per revolution)
 Width of Z signal
 1、 $T_m=1T \pm 0.5T$
 $T_m=nT \pm 0.1T$ ($n \geq 2$)
 The phase relationship of Z signal and A,B
 2、 $T_m=0.5T \pm 0.25T$
 $T_m=0.25T \pm 0.125T$
 $T_m=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Collector	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G



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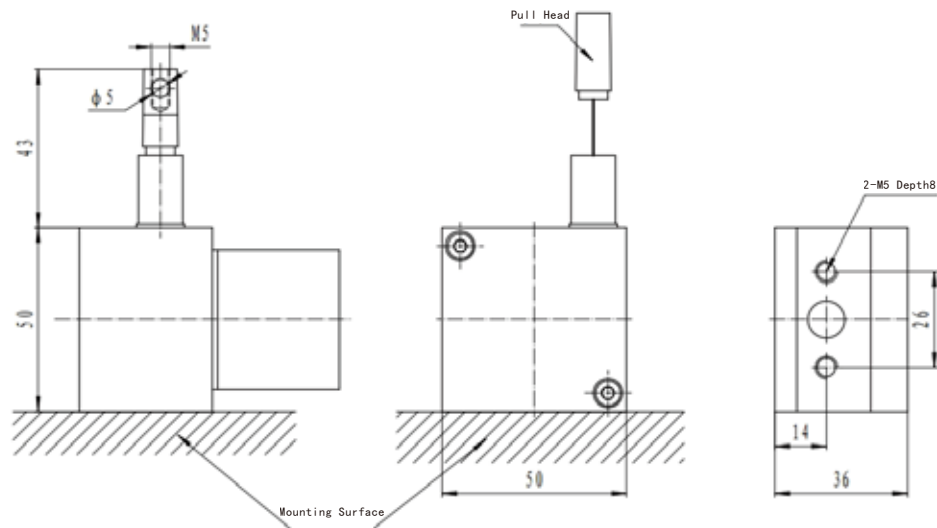
Product Selection Guide

SLC50D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 1500mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001 mm / pulse in maximum. Working temperature: -30 ° C-+90 ° C.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver (5V)	Wide Voltage Line Driver (8-26V)
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.1	0.05	0.04	0.027	0.02
Encoder Resolution (ppr)	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

Mechanical Specifications

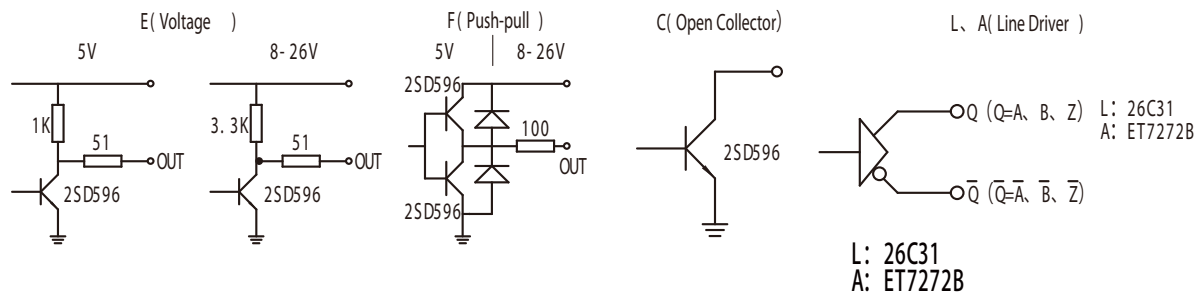
Measuring Range	0—1500mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

Enviromental Specifications

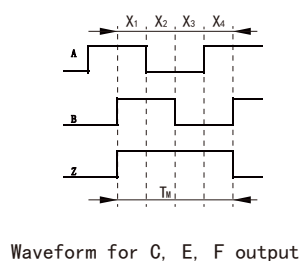
Temperature Range	-30℃—90℃
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.485



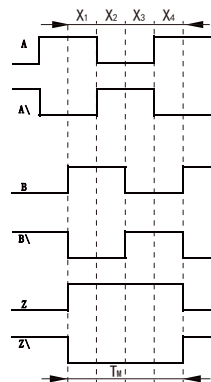
Output Circuits



Output Waveform



Waveform for C, E, F output



Waveform for L, A output

Wave Ratio : $X1+X2=0.5T \pm 0.1T$
 $X2+X3=0.5T \pm 0.1T$

Phase Different : $Xn \geq 0.125T$ ($n=1, 2, 3, 4$)

Absolute Angle Error: $\leq 0.2T$

Cycle Error : $\leq 0.05T$

$T=360^\circ / N$ (N =lines count per revolution)

Width of Z signal

1、 $T_m=1T \pm 0.5T$
 $T_m=nT \pm 0.1T$ ($n \geq 2$)

The phase relationship of Z signal and A, B

2、 $T_m=0.5T \pm 0.25T$
 $T_m=0.25T \pm 0.125T$
 $T_m=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Collector	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G





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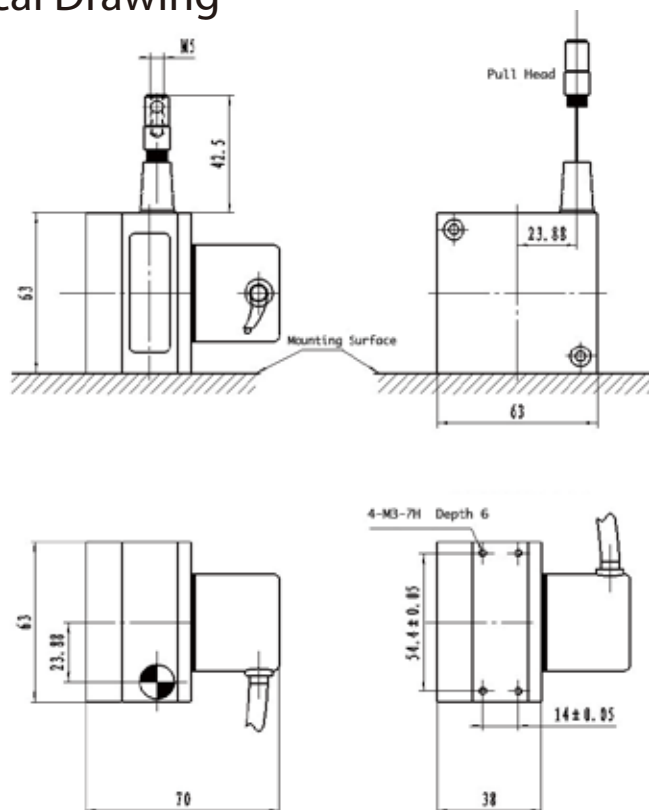
Product Selection Guide

SLC63D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 2500mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001mm / pulse in maximum. Working temperature: -30 °C +90 °C.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver (5V)	Wide Voltage Line Driver (8-26V)
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.15	0.075	0.06	0.041	0.03
Encoder Resolution (ppr)	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

Mechanical Specifications

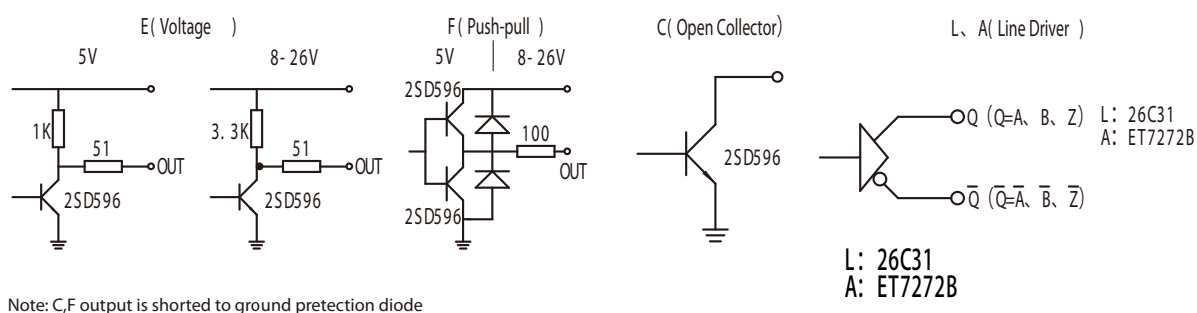
Measuring Range	0—2500mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times



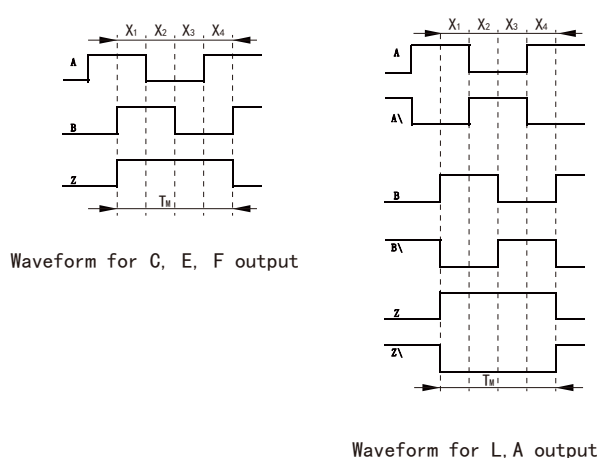
Enviromental Specifications

Temperature Range	-30°C—90°C
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.58

Output Circuits



Output Waveform



Wave Ratio : $X_1+X_2=0.5T \pm 0.1T$
 $X_2+X_3=0.5T \pm 0.1T$

Phase Different : $X_n \geq 0.125T$ ($n=1, 2, 3, 4$)

Absolute Angle Error: $\leq 0.2T$

Cycle Error : $\leq 0.05T$

$T=360^\circ / N$ (N =lines count per revolution)

Width of Z signal

1、 $T_m=1T \pm 0.5T$
 $T_m=nT \pm 0.1T$ ($n \geq 2$)

The phase relationship of Z signal and A, B

2、 $T_m=0.5T \pm 0.25T$
 $T_m=0.25T \pm 0.125T$
 $T_m=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Colletor	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G



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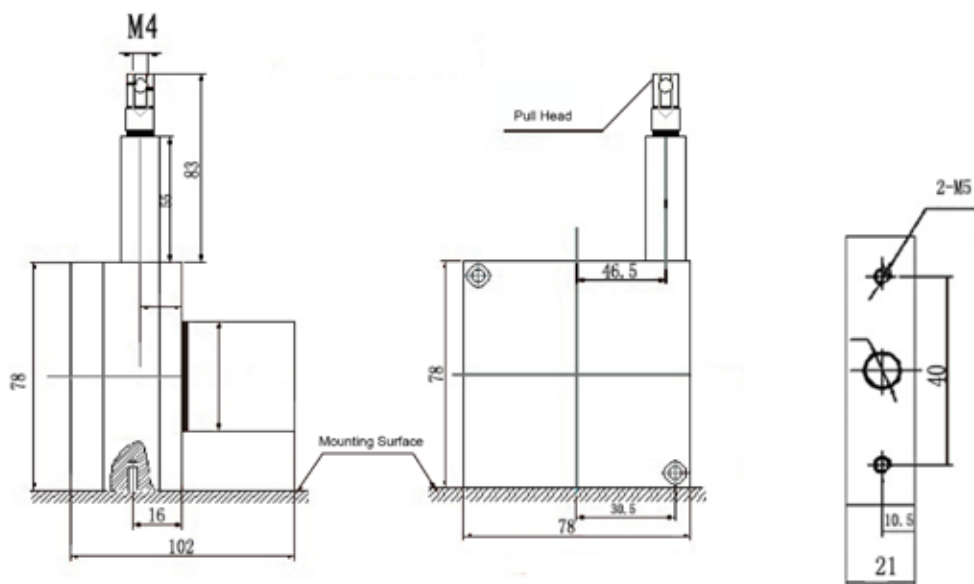
Product Selection Guide

SLC78D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 3000mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001mm / pulse in maximum. Working temperature: -30 °C to +90 °C.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver (5V)	Wide Voltage Line Driver (8-26V)
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.2	0.1	0.08	0.055	0.04
Encoder Resolution (ppr)	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

Mechanical Specifications

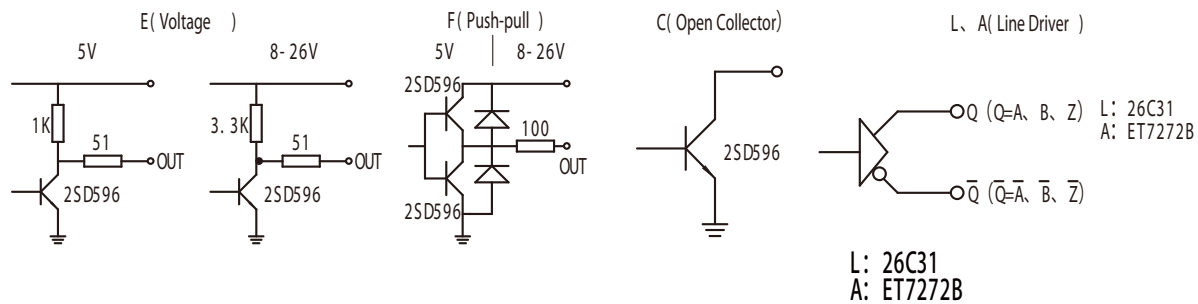
Measuring Range	0—3000mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

Enviromental Specifications

Temperature Range	-30℃—90℃
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.685

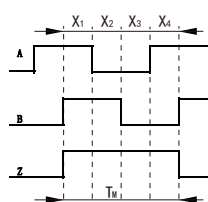


Output Circuits

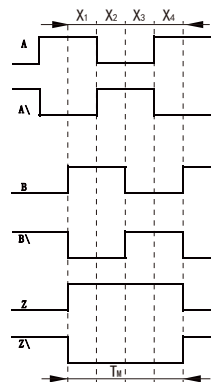


Note: C,F output is shorted to ground protection diode

Output Waveform



Waveform for C, E, F output



Waveform for L, A output

- Wave Ratio : $X1+X2=0.5T \pm 0.1T$
 $X2+X3=0.5T \pm 0.1T$
- Phase Different : $Xn \geq 0.125T$ ($n=1, 2, 3, 4$)
- Absolute Angle Error: $\leq 0.2T$
- Cycle Error : $\leq 0.05T$
- $T=360^\circ / N$ (N =lines count per revolution)
- Width of Z signal
- 1、 $Tm=1T \pm 0.5T$
 $Tm=nT \pm 0.1T$ ($n \geq 2$)
- The phase relationship of Z signal and A,B
- 2、 $Tm=0.5T \pm 0.25T$
 $Tm=0.25T \pm 0.125T$
 $Tm=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Collector	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G





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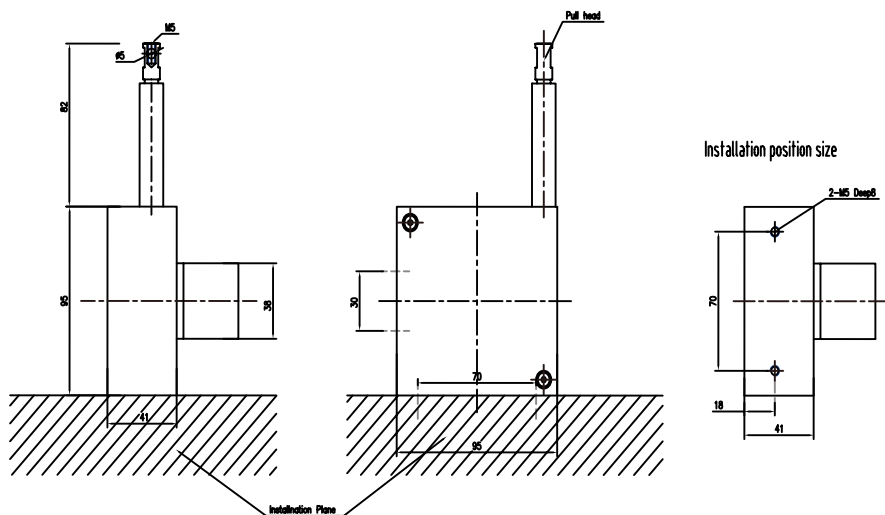
Product Selection Guide

SLC95D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 4000mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001mm / pulse in maximum. Working temperature: -30 ° C-+90 ° C.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver（5V）	Wide Voltage Line Driver（8-26V）
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.225	0.1125	0.09	0.0625	0.045
Encoder Resolution（ppr）	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

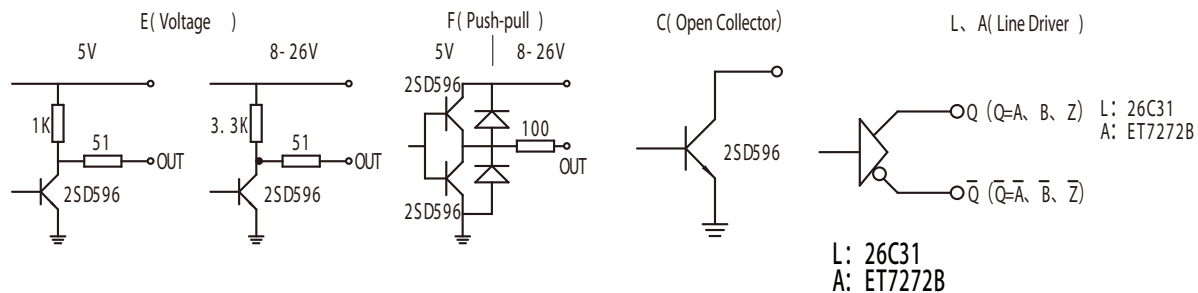
Mechanical Specifications

Measuring Range	0——4000mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

Enviromental Specifications

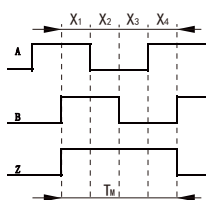
Temperature Range	-30°C——90°C
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.85

Output Circuits

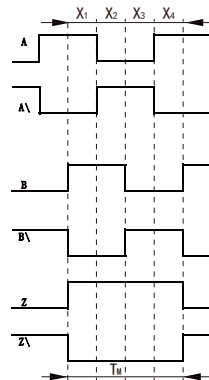


Note: C,F output is shorted to ground protection diode

Output Waveform



Waveform for C, E, F output



Waveform for L, A output

Wave Ratio : $X_1+X_2=0.5T \pm 0.1T$
 $X_2+X_3=0.5T \pm 0.1T$
 Phase Different : $X_n \geq 0.125T$ ($n=1, 2, 3, 4$)
 Absolute Angle Error: $\leq 0.2T$
 Cycle Error : $\leq 0.05T$
 $T=360^\circ / N$ (N =lines count per revolution)
 Width of Z signal
 1、 $T_m=1T \pm 0.5T$
 $T_m=nT \pm 0.1T$ ($n \geq 2$)
 The phase relationship of Z signal and A,B
 2、 $T_m=0.5T \pm 0.25T$
 $T_m=0.25T \pm 0.125T$
 $T_m=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Collector	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G





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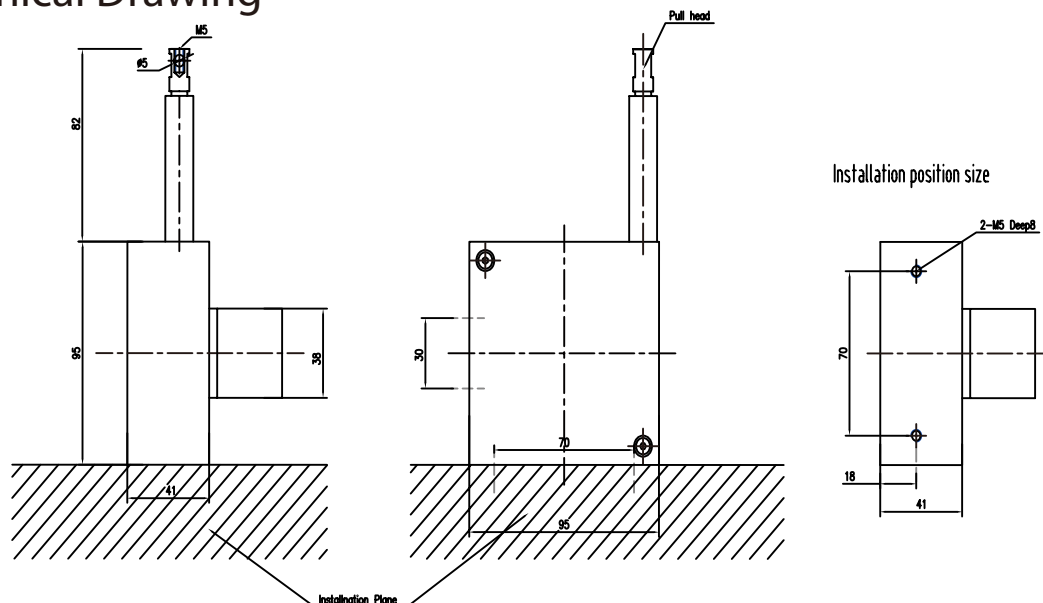
Product Selection Guide

SLC115D Applications & Features

Incremental encoder and absolute encoder are optional for the digital signal output type. Output signals are square wave ABZ signals or Gray code signals. Measurement range is up to 4000mm. Linear accuracy: 0.05% FS. Resolution based on the different configuration can reach 0.001mm / pulse in maximum. Working temperature: -30 °C +90 °C.



Mechanical Drawing



Electrical Specifications

Sensor Element	Incremental Encoder				
Electrical Connection	Cable Radial, 1m				
Output Model	Voltage	Push-Pull	Open Collector	Line Driver (5V)	Wide Voltage Line Driver (8-26V)
Operating Voltage	DC5V/8-26V				
Sensor Resolution(mm)	0.25	0.125	0.1	0.069	0.05
Encoder Resolution (ppr)	1000	2000	2500	3600	5000
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz(See Reciprocating Amplitude)				

Mechanical Specifications

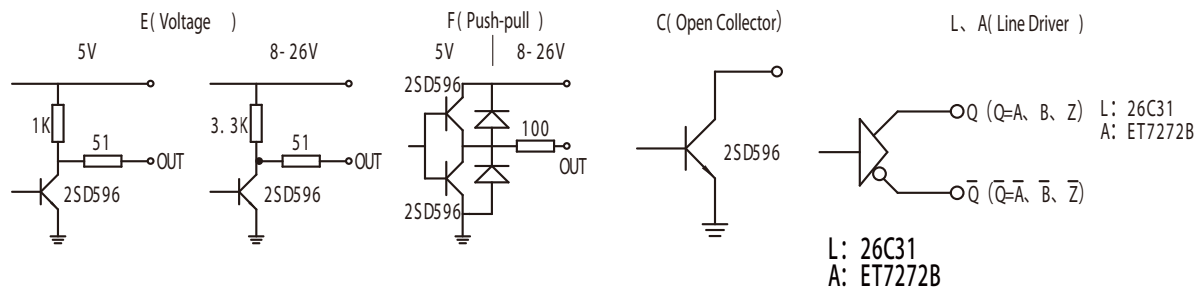
Measuring Range	0——6000mm optional
Housing	Aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire retraction force (min)	appr. 1N
Wire extension force (max)	appr. 2.5N
Linear Accuracy	0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

Enviromental Specifications

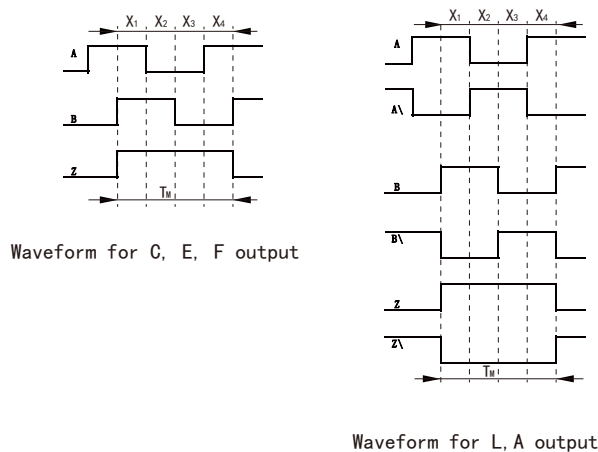
Temperature Range	-30°C——90°C
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.85



Output Circuits



Output Waveform



Wave Ratio : $X_1+X_2=0.5T \pm 0.1T$
 $X_2+X_3=0.5T \pm 0.1T$

Phase Different : $X_n \geq 0.125T$ ($n=1, 2, 3, 4$)

Absolute Angle Error: $\leq 0.2T$

Cycle Error : $\leq 0.05T$

$T=360^\circ / N$ (N =lines count per revolution)

Width of Z signal

1、 $T_m=1T \pm 0.5T$
 $T_m=nT \pm 0.1T$ ($n \geq 2$)

The phase relationship of Z signal and A, B

2、 $T_m=0.5T \pm 0.25T$
 $T_m=0.25T \pm 0.125T$
 $T_m=0.25T \pm 0.125T$

The picture shows the clockwise (CW) waveform from the shaft side.

Electrical Connections

Cable Color	Red	Yellow	White	Black	Green	Grey	Brown	Orange	Shield
Line Driver	Vcc	Z	B	OV	A	B/	A/	Z/	G
Voltage	Vcc	Z	B	OV	A	-	-	-	G
Open Collector	Vcc	Z	B	OV	A	-	-	-	G
Push-pull	Vcc	Z	B	OV	A	-	-	-	G



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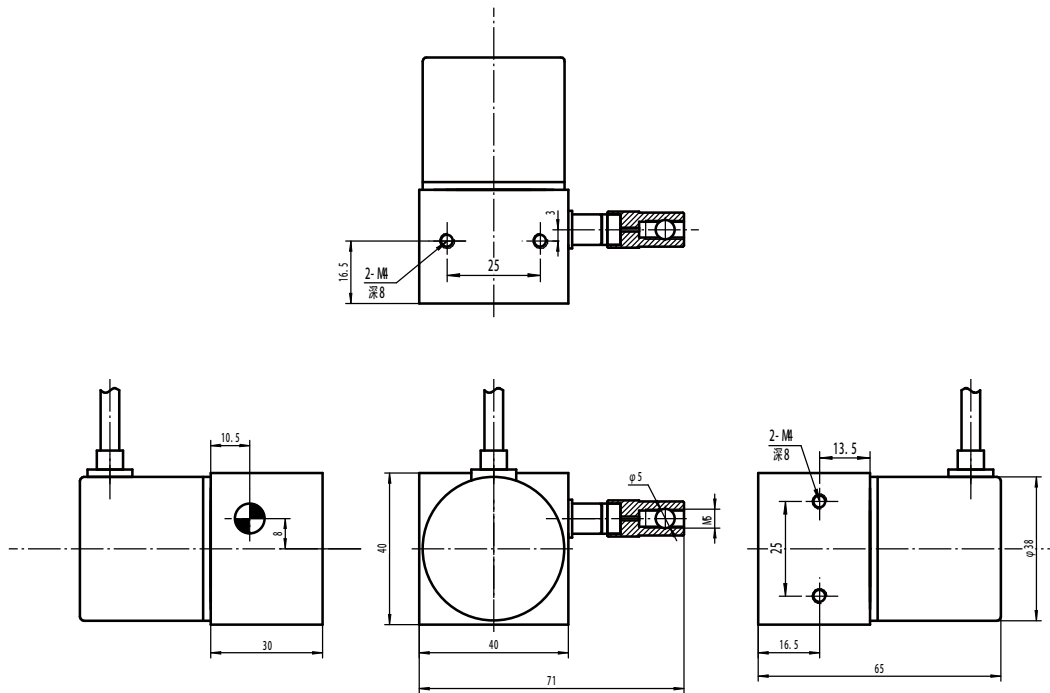
SLP40S

Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V, voltage 0-10V and resistance signals. The maximum stroke can reach 500MM. Working temperature : -30 °C+90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0—500mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%–0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times



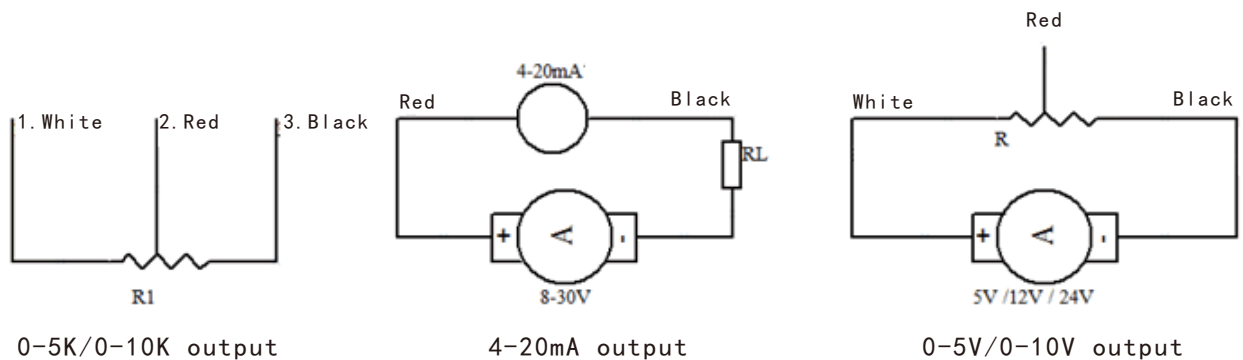
Electrical Specifications

Sensor Element	Potentiometer				
Electrical Connection	Cable Radial, 1m				
Output Model	0-5V	0-10V	4-20mA	0-5K	0-10K
Operating Voltage (DC)	5V/12V/24V	12V/24V	8-30V	0-V _{cc}	0-V _{cc}
Resolution (mm)	Quasi-infinite				
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz (See Reciprocating Amplitude)				

Enviromental Specifications

Temperature Range	-30°C—90°C
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.255

Output Circuits



Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Signal Output	0V	V _{cc}
4-20mA	V _{cc}	Signal Output	N/A
0-5V/0-10V	Signal Output	0V	V _{cc}





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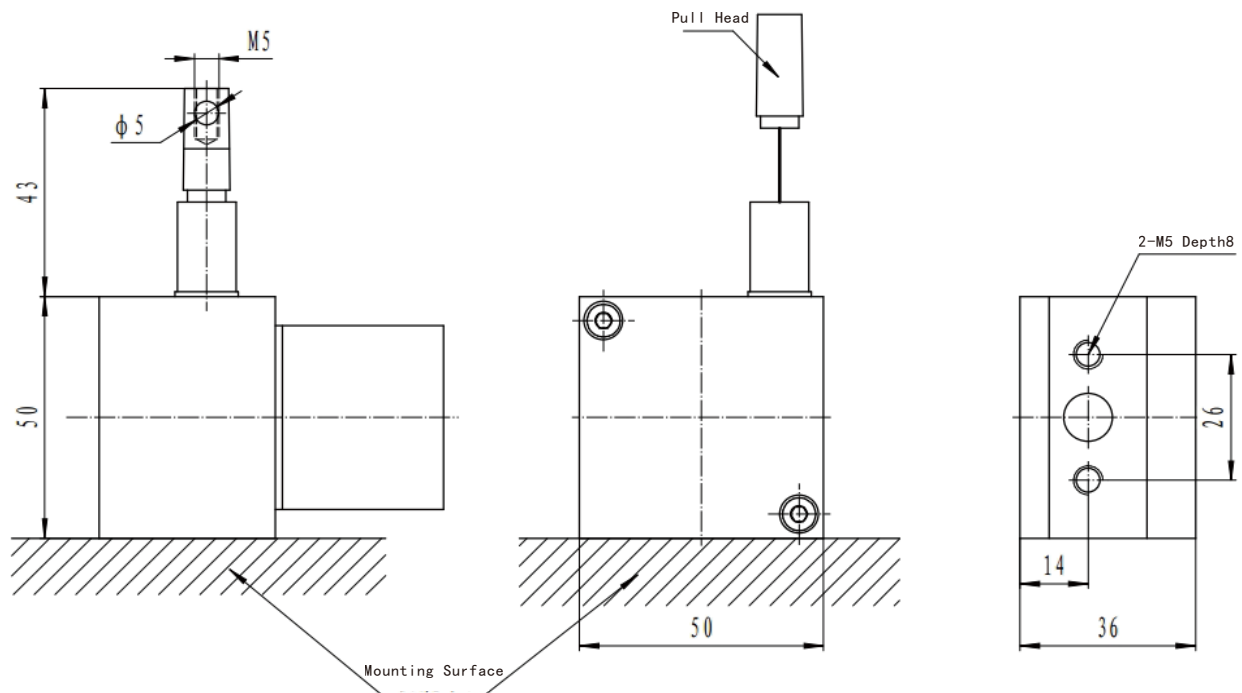
Product Selection Guide

SLP50S Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V, voltage 0-10V and resistance signals. The maximum stroke can reach 1000MM. Working temperature : -30 °C +90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0—1000mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%—0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times



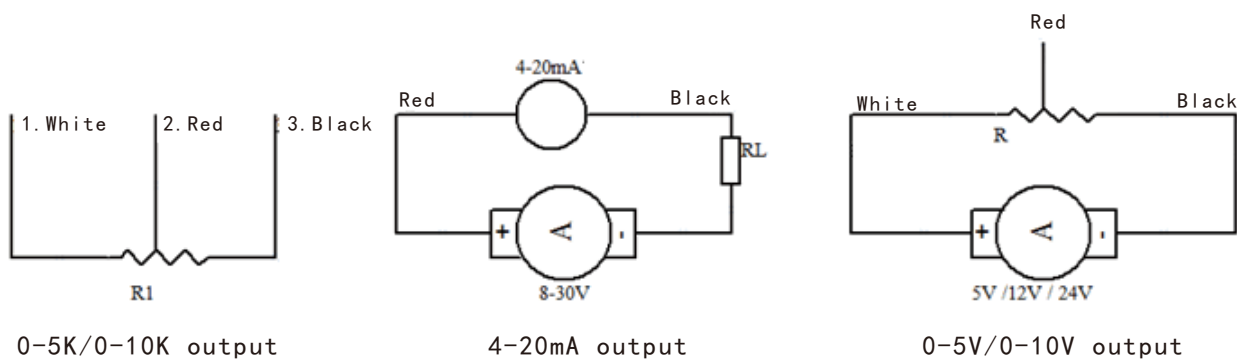
Electrical Specifications

Sensor Element	Potentiometer				
Electrical Connection	Cable Radial, 1m				
Output Model	0-5V	0-10V	4-20mA	0-5K	0-10K
Operating Voltage(DC)	5V/12V/24V	12V/24V	8-30V	0-V _{cc}	0-V _{cc}
Resolution (mm)	Quasi-infinite				
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz (See Reciprocating Amplitude)				

Enviromental Specifications

Temperature Range	-30°C——90°C
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.485

Output Circuits



Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Signal Output	0V	V _{cc}
4-20mA	V _{cc}	Signal Output	N/A
0-5V/0-10V	Signal Output	0V	V _{cc}



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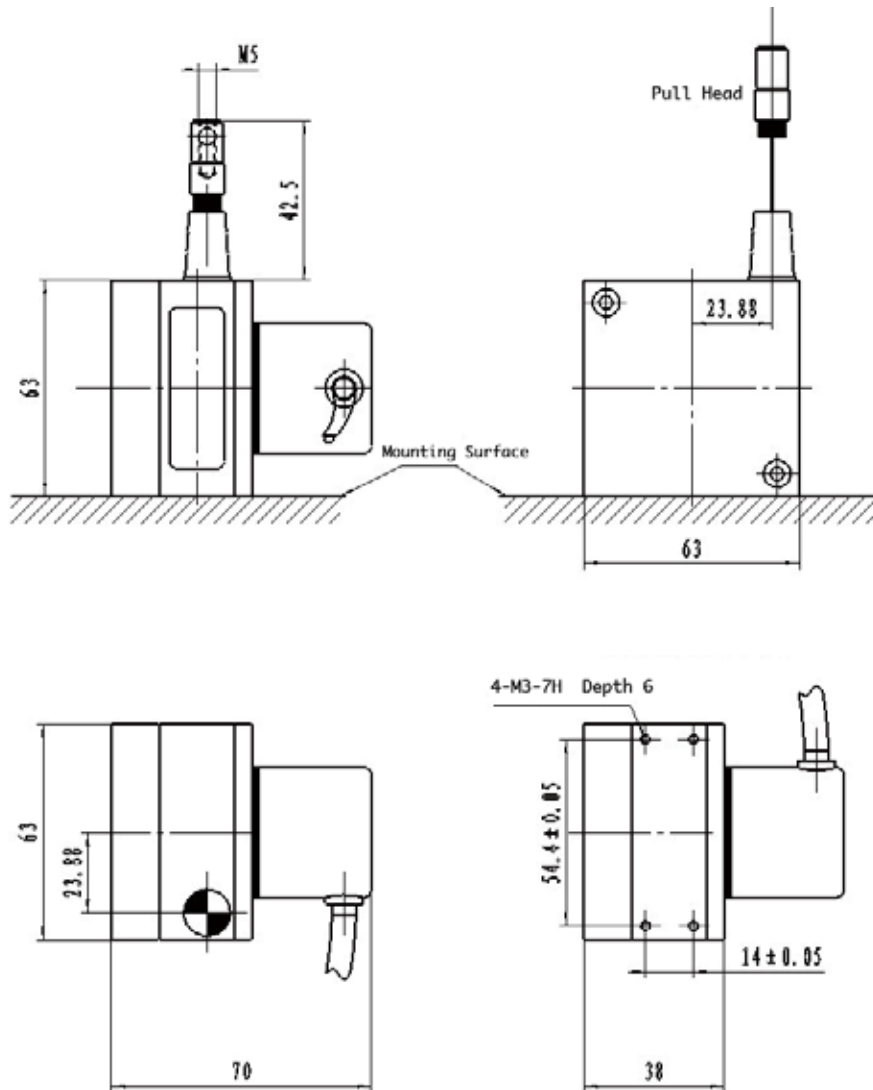
Product Selection Guide

SLP63S Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V , voltage 0-10V and resistance signals. The maximum stroke can reach 1500MM. Working temperature : -30 °C-+90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0—1500mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%-0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

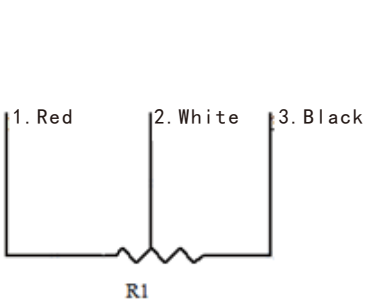


Enviromental Specifications

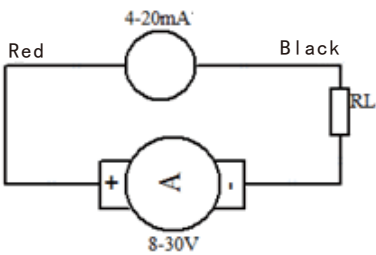
Temperature Range	-30°C——90°C
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.58

Output Specifications

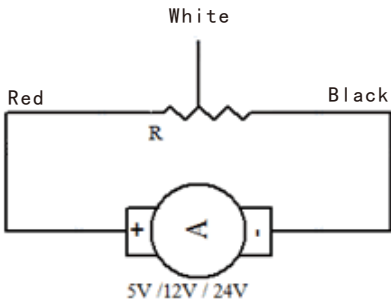
Output Circuits



0-5K/0-10K output



4-20mA output



0-5V/0-10V output

Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Vcc	0V	Signal Output
4-20mA	Vcc	Signal Output	N/A
0-5V/0-10V	Vcc	0V	Signal Output





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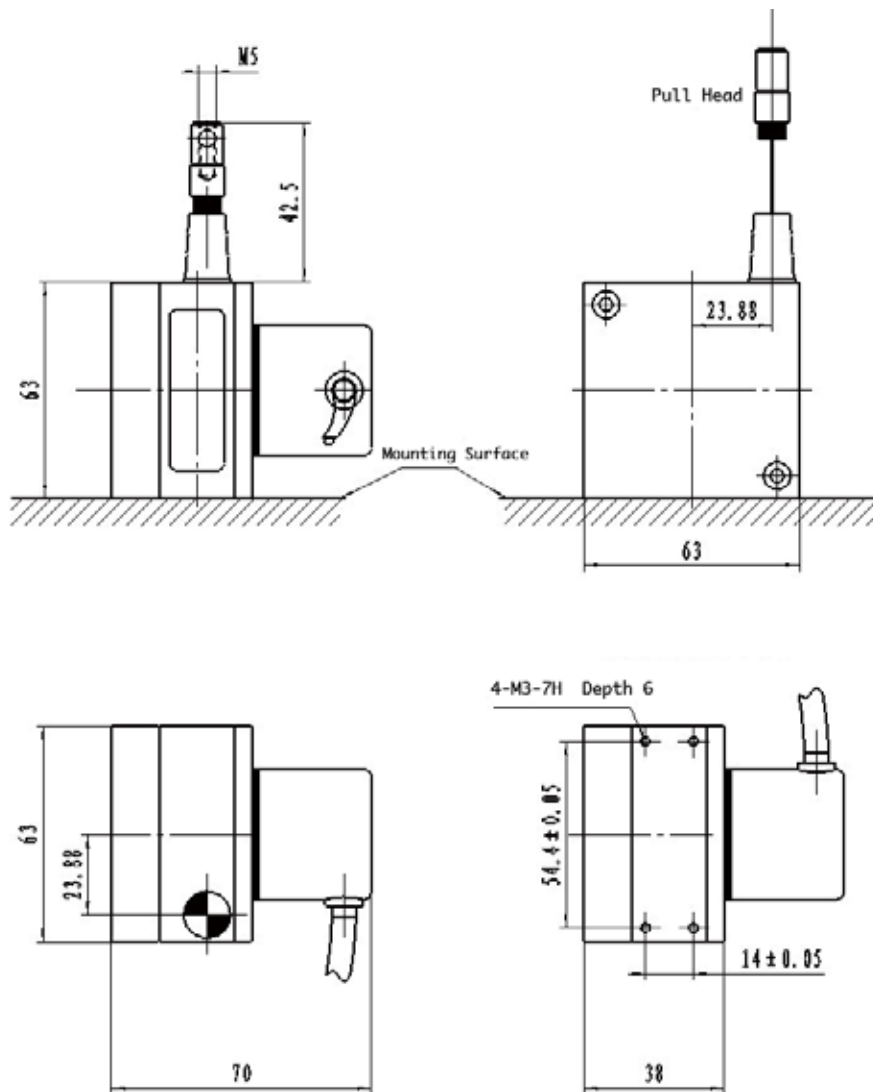
Product Selection Guide

SLP63S Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V, voltage 0-10V and resistance signals. The maximum stroke can reach 1500MM. Working temperature : -30 °C-+90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0——1500mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%-0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times



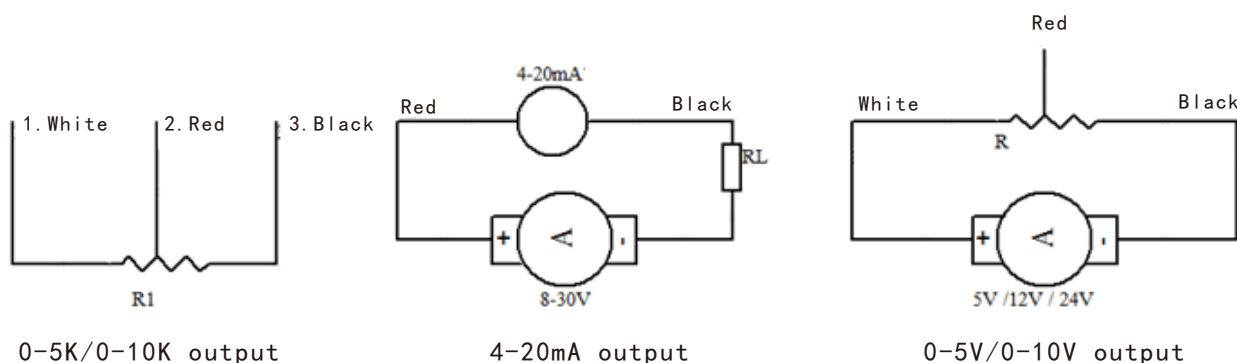
Electrical Specifications

Sensor Element	Potentiometer				
Electrical Connection	Cable Radial, 1m				
Output Model	0-5V	0-10V	4-20mA	0-5K	0-10K
Operating Voltage (DC)	5V/12V/24V	12V/24V	8-30V	0-V _{cc}	0-V _{cc}
Resolution (mm)	Quasi-infinite				
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz (See Reciprocating Amplitude)				

Enviromental Specifications

Temperature Range	-30°C—90°C
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.58

Output Circuits



Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Signal output	0V	V _{cc}
4-20mA	V _{cc}	Signal Output	N/A
0-5V/0-10V	Signal output	0V	V _{cc}





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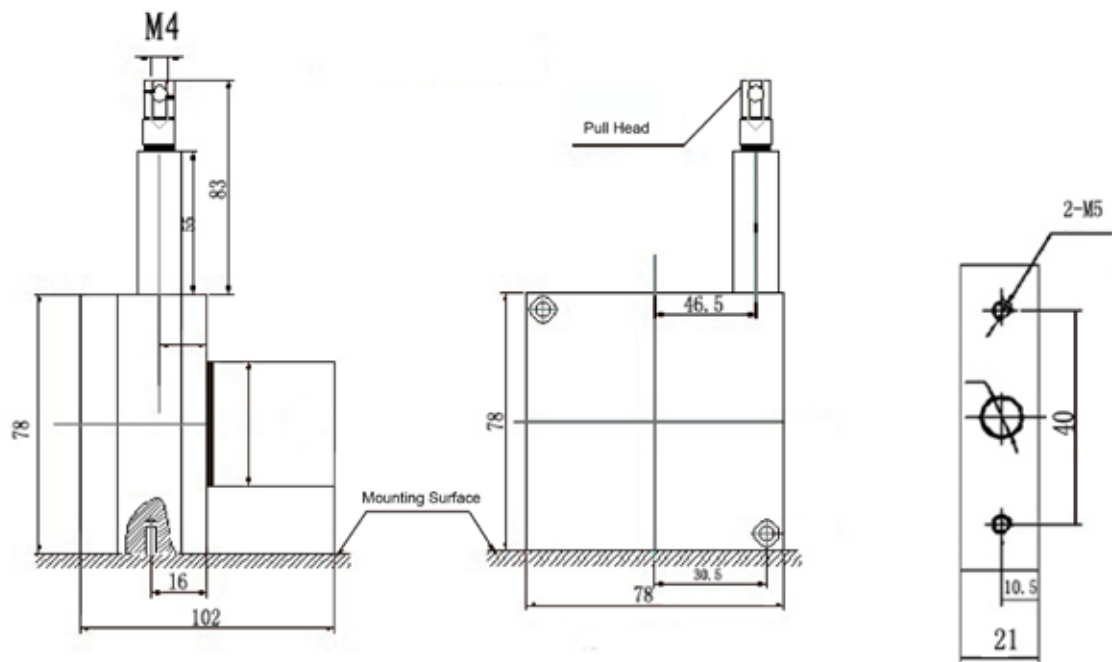
SLP78S

Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V, voltage 0-10V and resistance signals. The maximum stroke can reach 3000MM. Working temperature : -30 °C-+90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0—3000mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%–0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times



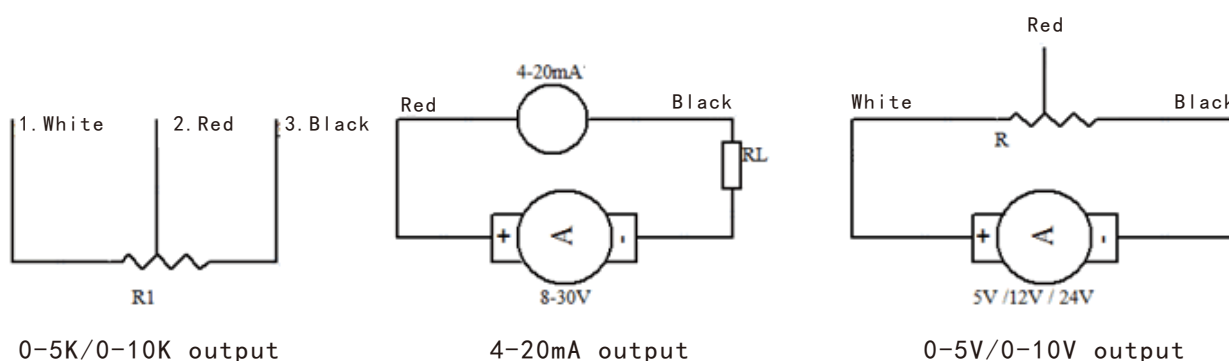
Electrical Specifications

Sensor Element	Potentiometer				
Electrical Connection	Cable Radial, 1m				
Output Model	0-5V	0-10V	4-20mA	0-5K	0-10K
Operating Voltage (DC)	5V/12V/24V	12V/24V	8-30V	0-V _{cc}	0-V _{cc}
Resolution (mm)	Quasi-infinite				
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz (See Reciprocating Amplitude)				

Enviromental Specifications

Temperature Range	-30°C—90°C
Vibration Resistance	10HZ—1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.685

Output Circuits



Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Signal output	0V	V _{cc}
4-20mA	V _{cc}	Signal Output	N/A
0-5V/0-10V	Signal output	0V	V _{cc}





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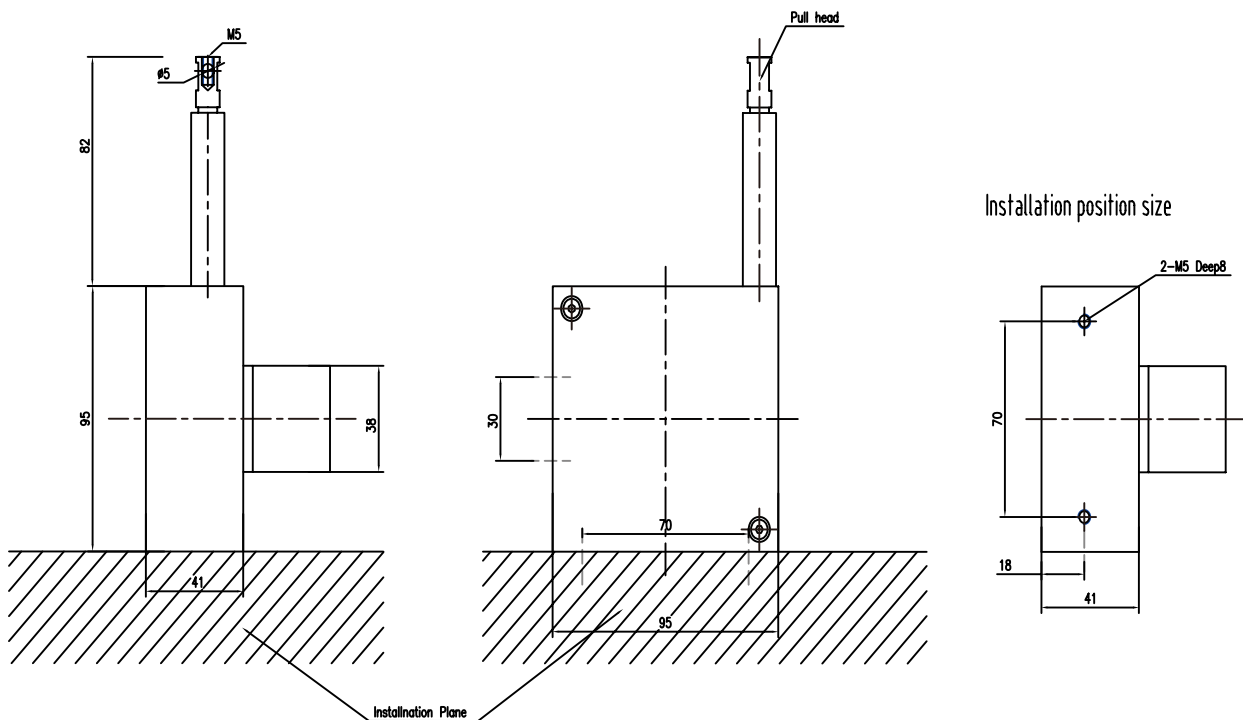
Product Selection Guide

SLP95S Applications & Features

Imported precision potentiometers, Hall encoder and absolute encoder are optional for the analog signal output type. The output signals: current 4-20 mA, voltage 0-5V, voltage 0-10V and resistance signals. The maximum stroke can reach 4000MM. Working temperature : -30 °C-+90 °C.



Mechanical Drawing



Mechanical Specifications

Measuring Range	0——4000mm optional
Housing	aluminium alloy, oxidation surface treating, wear and corrosion prevention
Wire Rope	0.6mm high flexible imported plastic coated wire rope
Wire Retraction Force (min)	appr. 1N
Wire Extension Force (max)	appr. 2.5N
Linear Accuracy	0.1%-0.05%FS
Repeatability Accuracy	0.01%
Life	>10 million times

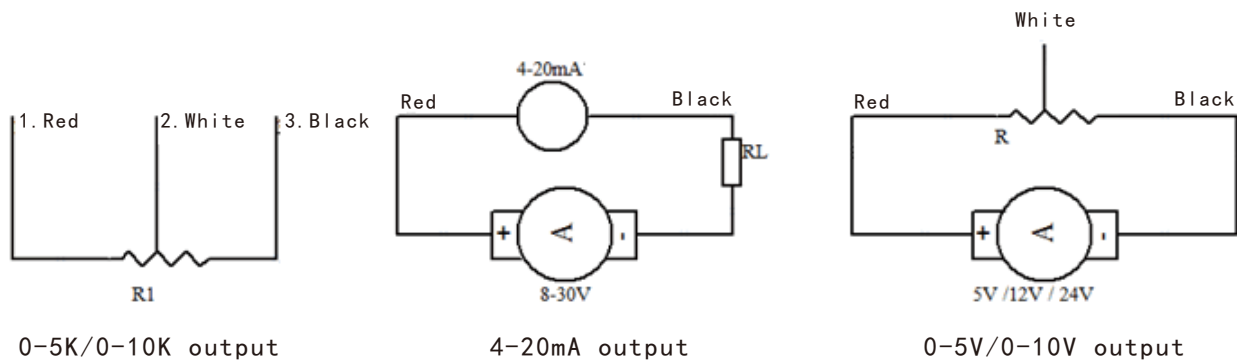
Electrical Specifications

Sensor Element	Potentiometer				
Electrical Connection	Cable Radial, 1m				
Output Model	0-5V	0-10V	4-20mA	0-5K	0-10K
Operating Voltage (DC)	5V/12V/24V	12V/24V	8-30V	0-Vcc	0-Vcc
Resolution (mm)	Quasi-infinite				
Max. Reciprocating Speed	1000mm/s				
Reciprocating Frequency	50 Hz (See Reciprocating Amplitude)				

Enviromental Specifications

Temperature Range	-30°C——90°C
Vibration Resistance	10HZ——1500HZ 10G
Protection Class	IP54(Standard)
Weight(kg)	0.85

Output Circuits



Electrical Connections

Cable Color	Red	Black	White
0-5K/0-10K	Signal output	0V	Vcc
4-20mA	Vcc	Signal Output	N/A
0-5V/0-10V	Signal output	0V	Vcc

