

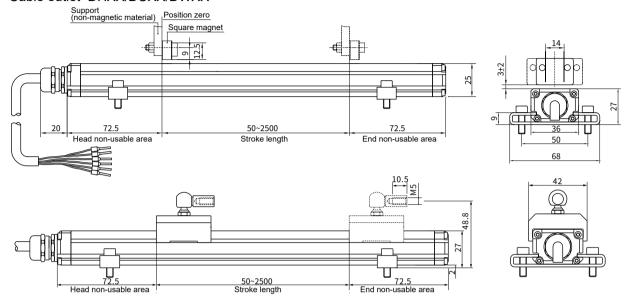
Technical characteristics

- Compact structure, convenient disassembly and assembly
- Linear measuring, absolute position output
- Never wear and tear, not affected by power failure
- Replaceable: LVDT, electronic ruler, encoder, etc.

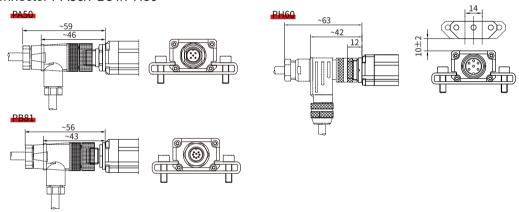
EP-Analog Output

Structural shape

Cable outlet DHXX/DUXX/DWXX



• Connector PA50/PB81/PH60



Wiring and pin definition







PA50 pin arrangement (Sensor Oriented)			
Pin	Wire color3*	Function definition	
1	Brown	+24Vdc±20% power supply	
2	White	GND (power supply circuit)	
3	Blue	Magnet ring position signal+	
4	Black	Magnet ring position signal-	
5	Grey	Sensor programming line	
Note:*	Wire color1: C	Cable PUR sheath, black, -20~90°C	

* Wire color 2: Cable PVC sheath, orange, -20~105°C

* Wire color 3: Cable PUR Sheath, Black, -40~85°C

Note: The shield wire of the shielded cable is grounded





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4	White	Green	Sensor programming line
5	Red	Brown	+24Vdc+20% power supply

GND (power supply circuit) Black



(Sensor Oriented)			
Pin Wire color4* Function definition			
1	Yellow	Do not connect	
2	Grey	Magnet ring position signal -	
3	Pink	Do not connect	
4	Red	Sensor programming line	
5	Green	Magnet ring position signal+	
6	Blue	0 Vdc (power supply loop)	
7	Brown	+24Vdc power supply (-20%~+20%)	
8	White	Sensor programming line	



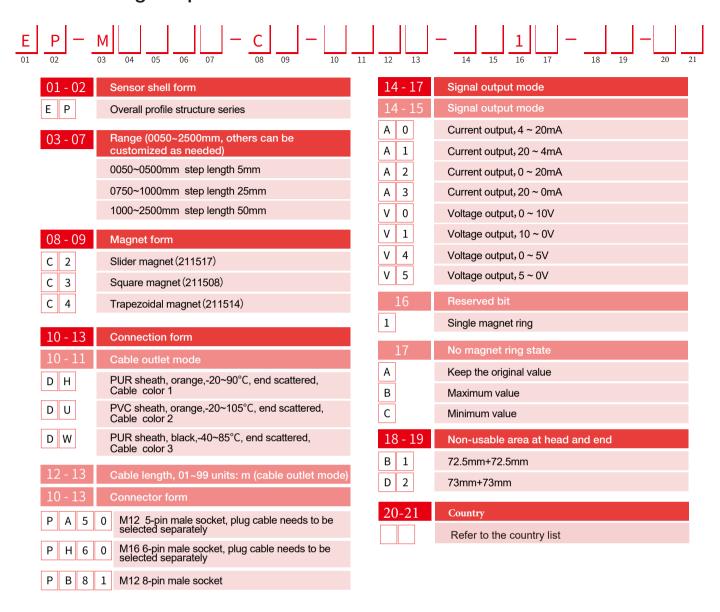
▶ EP Analog Output-Product Parameters

• Input		
Measuring data	Position magnet	
Stroke length	ngth 50~2500 mm, others can be customized according to needs	
• Output		
Current	$0 \sim 20 \text{mA} \text{ or } 4 \sim 20 \text{mA} \pmod{0.500\Omega}$	
Voltage	0 ~ 10Vdc or 0~5Vdc (minimum load resistance ≥10KΩ)	
Resolution	14-bit D/A or 0.0065% of full scale (minimum 10μm)	
Nonlinearity	<±0.03% of full scale	
Repeatability	<±0.005% of full scale	
Update time	1ms(range≤1m) 2ms(1m <range≤2m) 3m)<="" 3ms(2m<range≤="" td=""></range≤2m)>	
Hysteresis	<10µm	
 Operating conditi 	ons	
Magnet velocity	Arbitrary	
Protection class	IP65	
Operating temperature	-40℃ ~ +85℃	
Temperature coefficient	<30ppm/°C	
Humidity/dew point	Humidity 90%, no condensation	
Shock index	GB/T2423.5 50g(11ms)	
Vibration index	GB/T2423.10 10g/10~2000Hz	
	GB/T17626.2 Anti-interference Degree of Electrostatic Discharge, Grade 4, Class A	
	GB/T17626.3 Radiation Anti-interference Degree of Radio Frequency Electromagnetic Field, Grade 3, Class A	
EMC test	GB/T17626.4 Anti-interference Degree of Electrical Fast Transient Train, Grade 4, Class A	
LINIO 1031	GB/T17626.6 RF Field Induced Conducted Disturbance Immunity, Grade 2, Class A	
	GB/T17626.8 Power Frequency Magnetic Field Immunity, Grade 3, Class A	
	CE certification	

Electrical Connections		
Input voltage	+24Vdc <u>+</u> 20%	
Power consumption	<80mA	
Polarity protection	Maximum-30Vdc	
Overvoltage protection	Maximum36Vdc	
Insulation resistance	$>$ 10M Ω	
Insulation strength	500V	

Construction and Materials			
Measuring rod	Aluminum profile		
Installation	Any direction, clamp installation		
Position magnet	Square magnet, trapezoidal magnet		
Outgoing mode	Cable outlet (scattered connection), connector (M16 or M12 connector)		

▶ EP Analog Output-Selection Guide



Selection example

For example: EP-M0300-C0-PB81-A01B-B1-CN

Indicates: EP integral profile structure, mounting clamp installation, 300mm Stroke length, no magnet block, M12 connector outlet form, current output of 4~20mA, output value of non-magnet ring less than 4mA, non-usable area at head and end of 72.5 mm+72.5mm.

Supply list

Sensor, certificate, instruction manual, optional parts (optional separately)



▶ EP Analog Output - Common Options

Plug assembly cable

Accessory name/model	Dimensions	Description
Analog wiring cable assembly Order No.:AST-Mxxx-H01 (U01)	Cable assembly length (Mxxx)	Mxxx denotes cable length in meters; H01-6-pin PUR orange sheath, temperature-resistant-20~90°C cable assembly; U01-6-pin PVC orange sheath, temperature resistance -20~105°C cable assembly.
Analog wiring right angled cable assembly Order No.:AST-Mxxx-H03 (U03)	Cable assembly length (Mxxx)	Mxxx denotes cable length in meters; H03-6-pin PUR orange sheath, temperature-resistant -20~90°C cable assembly; U03-6-pin PVC orange sheath, temperature resistance -20~105°C cable assembly.
Analog output cable assembly Order No.:AST-Mxxx-W06	Cable assembly length (Mxxx)	Mxxx denotes cable length in meters; W06-5-pin PUR black sheath, temperature -40~80°C cable assembly.
Analog output right angled cable assembly Order No.:AST-Mxxx-W05	Cable assembly length (Mxxx)	Mxxx denotes cable length in meters; W05-5-pin PUR black sheath, temperature -40~80°C cable assembly.

• Finished plug cable

Accessory name/model	Dimensions	Description
M12 5-pin female connector Order No.:521801-2 (3/5/10) M12 8-pin female connector Order No.:521803-5(10)	2m/3m/5m/10m 52 2 m/3m/5m/10m	PUR black sheath, Wire colour1* for 521801-2 (3/5/10) Wire colour4* for 521803-5(10)
M12 Right angle female connector Order No.:521804-2(5) M12 8-pin angle female connector Order No.:521802-5(10)	2m/5m 39 M12	PUR black sheath, Wire colour1* for 521804-2 (3 /5/10) Wire colour4* for 521802-5(10)

Magnet ring/floating ball

Accessory name/ model	Dimensions
Slider Magnet Order No.:211517	(S)
Square magnet Order No.:211508	2.04.5
Square magnet gasket Order No.:211529	2.04.5
Trapezoidal magnet Order No.:211514	3.04.2
Trapezoidal magnet gasket Order No.:211530	38 28 5

Accessory name/ model	Dimensions	Description
Square Magnet Order No.:288508	28 2.04.5 Screw Square magnet solation (solation)	One square magnet 211508, one square magnet gasket 211529 (thickness 5mm), two M4X20 socket screws
Trapezoidal magnet kit Order No.:288514	38 28 Screw Magnetic isolation gasket	One trapezoidal magnet 211514, one trapezoidal magnet gasket 211530 (thickness 5mm), three M4X20 socket screws
Mounting clamp kit Order No.:211561	Screw Mounting clamp 50 14.5	One mounting clamp, two M5X16 socket screws
Mounting clamp kit (With insulation) Order No.:211801	Screw Insulating gasket Mounting Clamp 50 14.5	One mounting clamp, two M5X16 socket head cap screws, four insulating washers
Slider Magnet Kit Order No.:288517	10.5 Screw Nut Slider Magnet	One slider Magnet 211517、one M5×25Screw、Two M5 Nuts

Note: For other accessories, please refer to general options