

50-3000 mm Stroke, 0.025% of full scale resolution, IP65, Non-Contact, Up to two position signal outputs



Features

Non-contact measuring, never wear

Ultra-small profile, suitable for installation in compact occasions

Up to two position signal outputs

High precision with 0.025% full-scale resolution and fast 2 ms

update time delivers accurate, real-time results.

Robust IP65 protection

Technical Characteristics

Structural shape

Single magnet





Two magnet blocks (the sensor length is 50mm longer than a single magnet block)



• Wiring and pin definition

	No.	Single magnet block pin definition	Two magnet blocks pin definition
	1	0~10VDC or 10~0VDC Magnet block1	0~10VDC or 10~0VDC Magnet block2
	2	10~0VDC or 0~10VDC Magnet block1	10~0VDC or 0~10VDC Magnet block1
	3	+24VDC	+24VDC
	4	GND	GND

ED Analog Output - Product Parameters

Output			
Measuring data	Position magnet ring		
Stroke length	50~3000 mm,dual position output 50~3000		
Voltage	0~10V/10~0V,single/dual		
Resolution	0.025% of full scale (minimum 10um)		
Nonlinearity	$< \pm 0.05\%$ of full scale		
Repetition accuracy	< ± 0.01% of full scale		
Update time	2ms		
Operating Con	ditions		
Magnet velocity	Arbitrary		
Protection class	IP65		
Operating temperature	-40°C ~ +75°C		
Humidity/dew point	Humidity 90%, no condensation		
Shock index	GB/T2423.5 50g (11ms)		
Vibration index	GB/T2423.10 5g/10~2000Hz		
	GB/T17626.2 Anti-interference Degree of Electrostatic Discharge, Grade 4, Class A		
EMC test	GB/T17626.3 Radiation Anti-interference Degree of Radio Frequency Electromagnetic Field, Grade 3, Class B		
	GB/T17626.4 Anti-interference Degree of Electrical Fast Transient Train, Grade 4, Class B		
	GB/T17626.6 RF Field Induced Conducted Disturbance, Grade 2, Class B		
	GB/T17626.8 Power Frequency Magnetic Field Anti-interference Degree, Grade 3, Class A		
	CE certification		

Electrical Connections		Construction and Materials	
Input voltage	+24Vdc±20%	Measuring rod	Aluminum alloy
Power consumption	< 80mA	Outgoing line connection	DIN46530(A)
Polarity protection	Maximum -30Vdc	Installation	Any direction, clamp installation
Overvoltage protection	Maximum 36Vdc	Position magnet	Suspension magnet
Insulation resistance	>10MΩ		
Insulation strength	500V		

ED Analog Output-Common Options

Magnet ring

Accessory name/ model	Dimensions	Description
Square magnet kit Order No.:288508	28 19 2.04.5 Square Magnetic Magneti	One square magnet 211508, one square magnet spacer 211529 (thickness 5mm), two M4X20 socket head cap screws.
Mounting clamp kit Order No.:211584	Screw Mounting clamp 42.5 +42.5 +14	One mounting clamp, two M4X20 socket screws.
Mounting clamp kit (With insulation) Order No.:211584A	Screw Mounting clamp Insulating gasket 42.5 60 +14+	One mounting clamp, two M4X20 socket screws, Four insulating washers.

Accessory name/ model	Dimensions	
Square magnet Order No.:211508		
Square magnet gasket Order No.:211529		

Note: For other accessories, please refer to general options

DISPLACEMENT SENSORS

● ED Analog Output-Selection Guide



01 - 02	Sensor shell form					
E D	Integral profile structure series					
03 - 07	Measuring range (0025~3000mm, others can be customized according to needs)					
	0025~0750mm step length 5mm					
	0750~1000mm step length 25mm					
	1000~3000mm_step length 50mm					
08 - 09	Magnet form					
	C3 square magnet					
10 - 13	Outgoing mode/Cable length					
P D 4	0 DIN46530, A-type socket and Connector					
14 10						
14 - 16	Communication interface					
V A 1	Single magnet block, voltage 0~10V					
V B 1	Single magnet block, voltage 10~0V					
V A 2	Two magnet blocks, voltage 0~10V and voltage 0~10V					
V B 2	Two magnet blocks, voltage 0~10V and voltage 10~0V					
V C 2	Two magnet blocks, voltage 10~0V and voltage 10~0V					
V D 2	Two magnet blocks, voltage 10~0V and voltage 0~10V					
17 - 18	Non-usable area at head and end					
B 1	72.5mm+72.5mm					

• Selection example

For example: ED-M0300-C3-PD40-VA1-B1

Indicates: ED structure, mounting clamp installation, 300mm Stroke length, standard DIN46530, A-type socket and Connector, single magnet block, output signal 0~10V, non-usable area at head and end 72.5mm+72.5mm.

Supply list

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