ESC Displacement Sensor

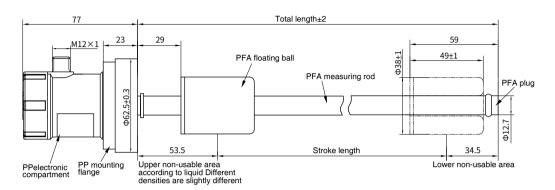


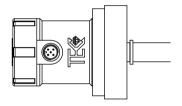
- PFA material shell, strong acid and alkali corrosion resistance
- Resolution 0.01, high precision liquid level detection
- The communication interface is rich and can be customized according to needs



ESC-Analog Output

Structural shape





Wiring and pin definition



Analog (four wires)

PA50 pin arrangement (Sensor Oriented)				
	Pin	Wire color	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	Grev	Shielded wire	

ESC Analog Output-Product Parameters

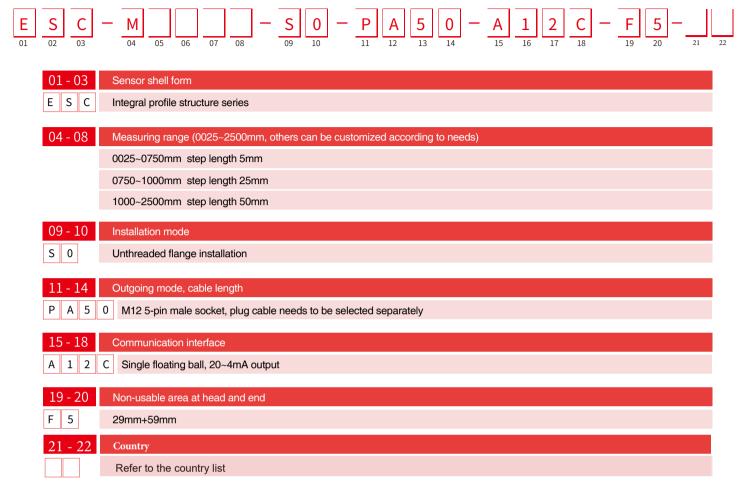
Input			
Measuring data	Position magnet ring		
Stroke length	25~2500 mm, others can be customized according to needs		
Output			
Current	4 ~ 20mA or 20 ~ 4mA(min/max load 0/500Ω)		
Voltage	0 ~ 10Vdc or 0~5Vdc (minimum load resistance ≥ 10KΩ)		
Resolution	±0.01mm,16bitDA, current		
	±0.1mm,12bitDA, Voltage		
Nonlinearity	0.05%F.S		
Repetition accuracy	Same resolution		
Update time	1ms (range ≤1m) 、2ms (1m <range≤2m)、3ms (="" range="">2m)</range≤2m)、3ms>		
Operating conditions			
Magnet velocity	Arbitrary		
Protection class	IP67		
Operating temperature	-40°C ~ +75°C		
Humidity/Dew Point	Humidity 90%, no condensation		
Impact Indicator	GB/T2423.5 50g(6ms)		
Vibration index	GB/T2423.10 15g/10~2000Hz		
EMC test	GB/T17626.2 Anti-interference Degree of Electrostatic Discharge, Grade 3, Class A		
	GB/T17626.3 Radiation Anti-interference Degree of Radio Frequency Electromagnetic Field, Grade 3, Class		
	GB/T17626.4 Anti-interference Degree of Electrical Fast Transient Train, Grade 3, Class B		
	GB/T17626.6 RF Field Induced Conducted Disturbance, Grade 2, Class A		
	GB/T17626.8 Power Frequency Magnetic Field Anti-interference Degree, Grade 3, Class A		
	CE certification		

Electrical Connections			
Input voltage	+24Vdc±20% / +12Vdc±20%		
Power consumption	<80mA		
Polarity protection	Maximum -30Vdc		
Overvoltage protection	Maximum36Vdc		
Insulation resistance	>10MΩ		
Insulation strength	500V		

Construction and Materials				
Electronic compartment	PP			
Measuring rod	PFA			
Outgoing connection	Connector (M12 connector)			
Installation	Any direction, threaded mounting (M50) or movable flange mounting			
Position magnet	Built-in magnet in floating ball			



ESC Analog Output-Selection Guide



Selection example

For example: ESC-M0520-S0-PA50-A12C-F5-CN

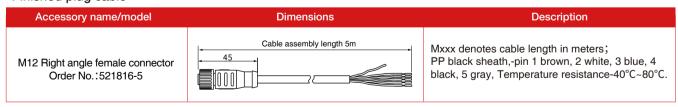
Indicates: ESC structure, non-threaded flange installation, 520mm Stroke length, M12, 5-pin socket, single floating ball, 20~4mA output, head and end non-usable area 29mm + 59mm.

Supply list

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

ESC Analog Output-Common Options

· Finished plug cable



Note: For other accessories, please refer to general options