

ESL040M Separated Liquid Level Transmitter

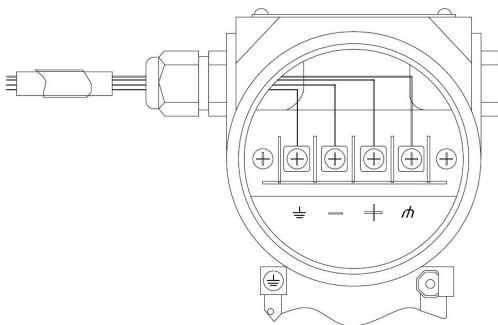
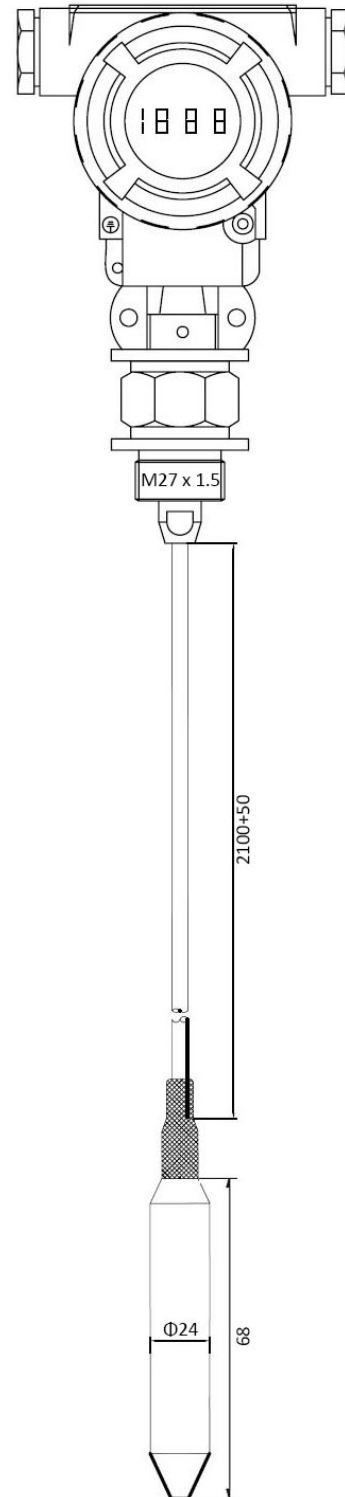
- ✓ Pressure type: Gauge Pressure
- ✓ Range: From 0~1...500mH₂O
- ✓ Accuracy: ±0.1%F.S, ±0.25%F.S, ±0.5%F.S
- ✓ Stability 0.1%F.S/Year(typical), 0.2%F.S/Year(maximum)
- ✓ Customized working temperature: -40℃~125℃
- ✓ Signal Output: 4~20mA, 0/1~5V, 0~10V
- ✓ Power supply: 10/11~30V, 6~24V
- ✓ Diffused silicon-oil fill system
- ✓ Diameter of the sensor: φ24
- ✓ Ingress Protection: IP68
- ✓ OEM: Available

Applications

Hydrologic monitoring | Constant pressure water supply | Frequency water supply | Tailwater elevation | Liquid level of storage tank | Water-saving irrigation | Liquid level of small-diameter pipe | Circulating fluid consumption monitoring

Product Introduction

ESL040M line is liquid level transmitter with compact and separate design. Featuring high reliability, stability and accuracy, the product is widely used for the measurement of liquid level in small-diameter pipe or liquid storage tank, such as water, oil and light corrosive liquids. This product line adopts 1Cr18Ni9Ti stainless steel construction, active sensing element of international brands, and the specially designed V/I converting circuit. It is easy to perform zero/span trim as well as external program-controlled zero/span adjustments. Based on the locations, different high-strength breathable cables featuring wear-proof, acid/alkali resistance and oil resistance can be configured. Non-polarized two-wire output and DC-AC three-wire output available.



Specifications

Measuring Range	0~1...500mH2O		Insulation	>100MΩ@50V
Overload pressure	1.5 times of rated pressure		Electric Strength	500V@60second
Burst Pressure	3 times of rated pressure		Lightening protection	
Accuracy:	±0.1%F.S, ±0.25%F.S, ±0.5%F.S		Vibration/Shock	10g/5~2000Hz, axes X/Y/Z20g sine 11ms;
Stability	0.1%F.S/Y, 0.2%F.S/Ymax		Response time:	10ms
Working temperature	-40~85°C, (-40~125°C Customize)		Pressure type	GP (G)
Compensation temperature	-10~70°C; (Customizable within full temperature compensation)		Safety Level	Intrinsically Safe E; Explosion-proof D;
Medium compatibility	All corrosive mediums compatible with 1Cr18Ni9Ti and 316L		Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire		
Output Signal	4~20mA	0~5Vdc	1~5Vdc	0~10Vdc
Power supply	10~30Vdc	6~24Vdc/ac		11~30Vdc/ac
Load resistance	(U-10)/0.02(Ω)	>100kΩ		
Electrical Connections	Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68)			
Process	Immersed+Conduit Entry Size M27x 1.5			
1mH2O≈9.81KPa				

Ordering Procedure

EST	Split liquid level transmitter									
	Code	Model								
	040M	Split liquid level transmitter								
		Cod	Span							
		1	0~1...500mH2O;							
			Code	Output Type						
			A	4~20mA						
			V	0~5V						
			V1	1~5V						
			V2	0~10V						
			Code	Precision						
			0.1	±0.1%F.S						
			0.25	±0.25%F.S						
			0.5	±0.5%F.S						
			Code	Power Supply						
			DC24	24 Vdc						
			DC6	6~24 Vdc						
			DC10	10~30 Vdc						
			DC11	11~30 Vdc						
			Code	Process connections						
			IM	Immersed+Conduit Entry Size M27x 1.5						
			Code	Electrical Connections						
			Wjc	Waterproof cable conduit connections						
			Code	Cable length XXm=... m						
				Code	Packing					
				Bb	Bubble bag					
				Foa	Plastics foam					
EST	040M	1	A	0.25	DC6	IM	Wjc	1.5m	Bb	