LFT2010 High Accuracy Pressure Sensor

LEFOO力夫

Features

- Adopt high accuracy & high overload capacity oil-filled diffusion silicon core
- Adopt special temperature compensation technology
- Excellent corrosion and abrasion resistance
- Suitable for a variety of complex environments

Description

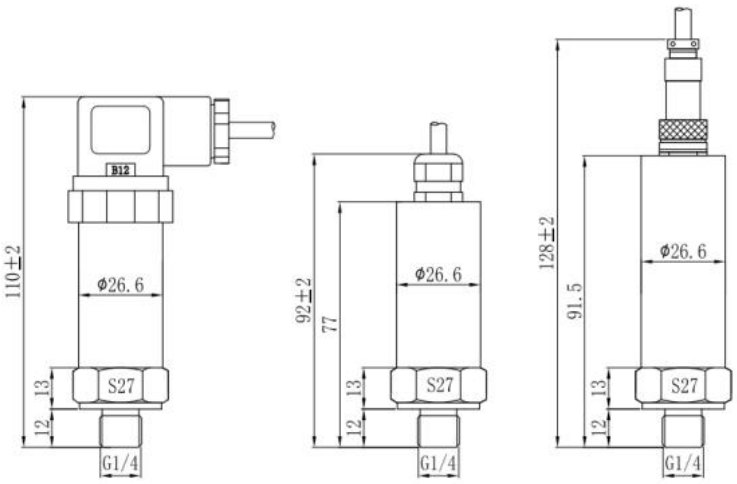
This transmitter adopts piezoresistive pressure sensor, and through the computer automatic test, the laser resistance adjustment process is used to compensate the zero and temperature performance in a wide temperature range. The model has high precision, high quality, small size and easy installation. Adopt low power consumption with high performance MCU, the pressure signal acquisition and conversion to the standard analog signal output. It's widely used in firefighting, water treatment, water supply system, air compressor, pneumatic device, industrial automation and other high-precision test system of fluid medium pressure measurement.

Specification

Range	0～0.1…7MPa	0～0.1…4MPa		
Overload Pressure	1.5 times full scales	1.5 times full scales		
Accuracy	±0.25%F.S	±0.1%F.S @25℃		
Stability	<0.2%F.S/Year	<0.1%F.S/Year		
Working Temperature	-20～+85℃	-20～+85℃		
Storage Temperature	-40～+100℃	-40～+100℃		
Compensated Temperature	-10～+70℃			
Medium	All Gas or liquid compatible with 304 and 316L stainless steel, fluorine rubber or nitrile butadiene rubber			
Electrical Properties	Two-wired	Three-wired		Four-wired
Output Signal	4～20mA	0～5V[1]	0～10V[2]	RS485
Power Supply	10～30VDC	10～30VDC	14～30VDC	10～30VDC
Electrical Connection	DIN43650A (Big Hirschmann), M12 waterproof outlet, M12 aviation connector (3-core / 4-core)			
Protection	IP65/IP67			
Pressure connection	G1/4、NPT1/4、R1/4、G1/2、7/16-20UNF、M20*1.5、M10*1、M14*1.5 etc.			
Pressure Form	Gauge pressure G			
Certification	Safety explosion-proof type E、RoHS、REACH、EU CE			

[1] When "Accuracy" level is 0.1%F.S, the "Output Signal" is 1-5V.
[2] When "Accuracy" level is 0.1%F.S, the "Output Signal" is 1-10V.

Dimension in: mm



Order Ref NO

Code and description										Remark
LFT2010										Model
	Range	0～0.1…7MPa/0～0.1…4MPa								Range
		A4	A4 = 4～20mA（Two-wired）							Output Signal
		V0	V0 = 0～5V (Three-wired）							
		V10	V10 = 0～10V (Three-wired）							
		RS	RS = RS-485 (Four-wired)							
			K	K = kpa		P	P = psi			Unit
			M	M = Mpa		B	B = bar			
				0.25	0.25 = 0.25％F.S 0.1 = 0.1％F.S					Accuracy
					D1	D1 = DIN43650A(Big Hirschmann)				Electrical Connection
					M	M = M12(M12Waterproof outlet)				
					C3	Cable (C3=Three-core aviation connector, C4=Four-core aviation connector)				
						G1	G1= G1/4	G2	G2 = G1/2	Pressure Connection
						N	N = NPT1/4	M3	M3 = M20*1.5	
						M1	M1= M10*1	M2	M2= M12*1	
							1	1.0 = 1m		Cable Length
							2	2.0 = 2m		
							3	3.0 = 3m		
								T	Lost: 25℃ T0[3]=-10～70℃	Compensated Temperature

LFT2010 0-70 A4 B 0.25 D1 G1 1.0 T0	Model Selection Example

[3] When “Compensated Temperature T0” ”is between -10～70℃ and “Measurement Range” is 0～0.4MPa…5MPa, the “Accuracy Class” is 0.25%F.S