PS10SR-2380 Piezoresistive Pressure Transducer

Features

- ·Full stainless steel construction;
- ·Thread connection optional;
- · Constant current supply;
- ·Laser trimming compensating zero and FS thermal error;
- ·Using high reliable and stable solid piezoresistive pressure cell;
- ·Cable connection or plug connection



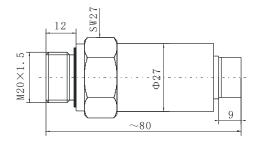
Introduction

General PS10SR-2380 pressure transducer is produced by build-in an OEM piezoresistive pressure sensor into stainless steel housing. Due to stainless steel pressure port and housing, the product has good media compatibility, stable performance and high accuracy, it can be used for static gas and liquid media pressure measurement. Flush diaphragm PS10SR-2380 pressure transducer has G1/2 male pressure port and Viton sealed washer for fact type seal. Flush diaphragm MPM380 transducer has 0 \sim 70kPa...35MPa pressure range, it can be used for food, medicine, sanitation fields which is easy to be dirty.

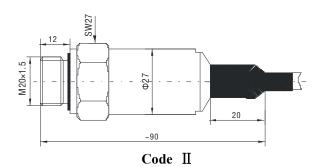
Specifications

@1.5mADC, 25℃									
Pressure range	-100kPa…0kPa∼20kPa…100MPa								
Overpressure	1.5 times FS or 110MPa (min.value is valid)								
Power supply	1.5mADC								
Signal	≥70mVDC (0~20kPa, ≥50mVDC)								
Accuracy	±0.1%FS (min.) ±0.25%FS (typ.) ±0.5%FS (max.)								
Long-term stability	±0.3%FS/year								
Compensation temp.	0℃~50℃								
Operation temp.	-30°C∼80°C -10°C∼70°C (Cable)								
Storage temp.	-40°C ~120°C -20°C ~85°C (Cable)								
Zero temp. coefficient	±0.02%FS/℃ (typ.) ±0.04%FS/℃ (max.)								
FS temp. coefficient	±0.02%FS/℃ (typ.) ±0.04%FS/℃ (max.)								
Housing	Stainless steel 1Cr18Ni9Ti								
Diaphragm	Stainless steel 316L								
O-ring	Viton								
Cable	Polythene								
Response time (10%~90%)	≤1ms								
Insulation resistance	100MΩ, 100VDC								
Production	IP65 (cable connection)								

Outline Construction(Unit: mm)



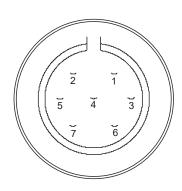
Code I



Electric Connection

Color	Pin	Connection +IN -IN -IN				
Black	3					
Yellow	5					
White	1					
Red	2	+OUT				
Blue	4	-OUT				

Note: standard electric connection is plug connection; cableconnection is optional.



Order guide

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PS10)SR-2	2380 F	Piezor	resistive Pre	essur	e Transo	ducer						
	Code		Pressure range	e Re		ef.		Code	Pressure range		range	Ref.	
		0B		0~20kP	а	G		12			0~2Ml	Pa	G, A
		0A		$0{\sim}35$ kPa		G			13		0~3.5N	1Pa	G, A, S
		02		$0{\sim}70\mathrm{kP}$	а	G, <i>i</i>	A		14		0∼7Ml	Pa	A, S
	03 0∼100kl		Pa G, A		A		15		0~10M	Pa	S		
		07		$0{\sim}200$ kPa		G, A			17		0~20M	lPa 💮	S
		08		$0{\sim}350$ kF	Pa	G, <i>i</i>	A		18		$0{\sim}35{\sf MPa}$		S
		09		$0{\sim}700$ kF	Pa	G, A			19		$0{\sim}70{\sf MPa}$		S
	10 0∼1000kF		Pa	G, <i>i</i>	A		20		0~100N	/lPa	S		
				Code	Pressure type								
	G			Ga	Gauge								
	A		Abs	Absolute									
				S	Sea	aled gau	ge						
				Code El			ectric	ectric connection					
						Pl	nnection	tion					
						II C			Cable connection				
						Cable		1.5m cable is free of charge; the extra					
					length	1	cable s	cable should be paid additionally.					
					(m)								
						Code		Pressure port					
									Р		G1/2 m	ale flus	sh diaphragm
DC10	SD 3	200 40						-			<u> </u>	41	h - l
P310	3K-2	380 10		G		II		5			Р	tne w	hole spec

Notes

- 1. We can also provide the user with voltage power supply product, the power supply is more than 9V; please note it when you select option codes;
- 2. When the user install flush diaphragm product at local place, please pay attention to correct sealing method to prevent the stress affecting product stability; please use attached seal-ring to install and seal, but not use face type sealing or wrap tetrafluoroethylene belt on the thread;
- 3. If the customer has special requirement, please feel free to contact our company.