

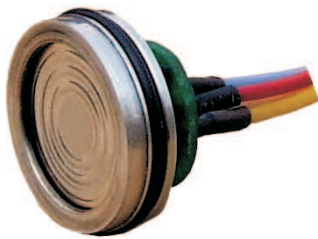
Description

Based on silicon piezoresistive technology, UPX6-a, -b, and -c are manufactured by adopting high quality piezoresistive silicon chips.

UPX6-a silicon piezoresistive pressure sensor is the ultra-thin design based on UPX19 foundation

UPX6-b silicon piezoresistive pressure sensor is manufactured by using UPX-19's manufacturing techniques. It is designed for application of high pressure situation. Its small diameter causes the strength on the sensor body reduce greatly after installation.

UPX6-c silicon piezoresistive pressure sensor is manufactured by using UPX-19's manufacturing techniques. Except their outer diameters and lengths, other technical specifications of these sensors are completely same.



UPX6-a



UPX6-b



UPX6-c

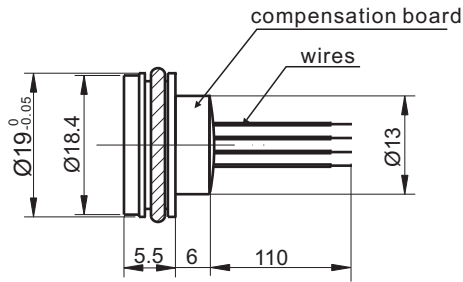
Features

- Computer tested, high precise compensation
- Good performance, high reliability
- Imported pressure silicon dies
- Isolated-type structure, suitable for many kinds of media measurement

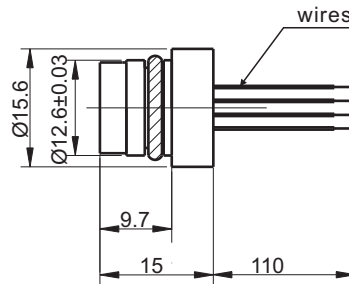
Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0~0.2...100 bar (UPX6-a G, A, S) 0~10...1000 bar (UPX6-b A, S) -1...0~0.4...400 bar (UPX6-c G, A, S)
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	≥70mV(typical)
accuracy	0.25%FS(standard), 0.5%FS
zero offset	≤±2mV
long-term stability	<0.2%FS/year
excitation	1.5mA or 10V DC (1.5mA standard)
compensated temperature range	-10~+70°C
operating temperature range	-40~+100°C
storage temperature range	-40~+100°C
temperature coefficient of zero	0.2%FS/10°C
temperature coefficient of span	0.2%FS/10°C
input/output resistance	2~6kΩ
insulation resistance	100MΩ@50VDC
electrical connection	6 pin or 4wires
material of pressure membrane and housing	316L

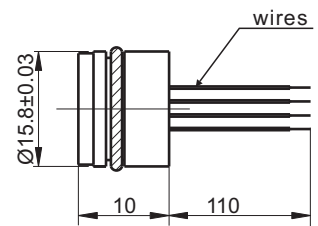
Dimensions



UPX6-a



UPX6-b



UPX6-c

Electrical connection

<u>connection</u>	<u>cable color</u>
signal“+”	yellow
excitation“+”	red
excitation“-”	blue
signal“-”	white

Ordering code

UPX6-a range: -1...0~0.2...100 bar				
UPX6-b range: 0~10...1000 bar				
UPX6-c range: -1...0~0.4...400 bar				
	range	measuring range: -1...0bar~0.2...1000bar		
		(0~X)bar X: actual measuring range		
		code	pressure type	
		G	gauge	
		A	absolute	
S	sealed gauge			
UPX6-a	(0~10)bar	G		

Note: We can make sensor as customer's special requests like wide-temperature compensation range, high reliability, high ability of anti-impacting and vibration etc.