



18mm Flush diaphragm , Piezoresistive ceramic pressure sensor

Product model	Working pressure range	Product thickness H	Overload pressure	Burst pressure
HXL-RS18G005C	0-5Bar	6.35±0.10mm	>15Bar	>25Bar
HXL-RS18G010C	0-10Bar	6.45±0.10mm	>30Bar	>50Bar
HXL-RS18G016C	0-16Bar	6.50±0.10mm	>50Bar	>80Bar
HXL-RS18G020C	0-20Bar	6.50±0.10mm	>50Bar	>80Bar
HXL-RS18G025C	0-25Bar	6.65±0.10mm	>70Bar	>100Bar
HXL-RS18G035C	0-35Bar	6.65±0.10mm	>70Bar	>100Bar
HXL-RS18G050C	0-50Bar	6.78±0.10mm	>100Bar	>150Bar
HXL-RS18G070C	0-70Bar	6.87±0.10mm	>140Bar	>200Bar
HXL-RS18G100C	0-100Bar	6.95±0.10mm	>200Bar	>300Bar

Technical specification	
Working voltage	2-30V DC
Bridge impedance	※10.0K Ω ±30%
Sensitivity	※2.0-4.0mV/V/FS, Typical value: 3.0mV/V/FS
TCR	≤100ppm/°C@-40°C~135°C
Zero drift	0±0.2mV/V
Working Temperature	-40°C~135°C
Storage Temp	-40°C~150°C
thermal drift	Tco&Tcs 0.02%FS/°C Max
nonlinearity	0.25%FS Max



Hysteresis & repeatability	0.25%FS Max
Response Time	<5mS
Worklife	> 5 million pressure cycles @2-5Hz,0~ full scale pressure ~0,15~35°C
Long-term stability	Zero @25°C : < 0.25%FSO(no time accumulation)
Insulating property	>2KV

Product instruction:

1. Storage environment: Stored in 10~35°C, ≤70%RH environment, avoid being placed in overheating or direct sunlight, dust or corrosive gas environment, metal PIN is easy to oxidize in the air, it is recommended to use within 10 days after unpacking, stored in a storage environment welding period of 12 months, after placing more than 12 months, the ceramic core needs to be weldability recheck. It can only be used after passing the inspection;
2. When installing the riveting press, it is recommended that the riveting pressure should not exceed 20KN, and the direct force of the pressure core should not exceed 5KN, which may cause damage to the core structure or abnormal output signal due to excessive stress. When the ceramic core is packaged, it can not directly contact with hard objects such as metal shell, otherwise it may cause large internal stress leading to unstable output;
3. Sealing suggestion: When using the sealing ring to seal, ensure that the sealing ring is placed concentrically with the elastic diaphragm without uneven force. The inner diameter of the sealing ring should be > 10.0mm and the outer diameter should be < 16.0mm after compression and deformation;
4. The PIN PIN of the pressure core body is nickel-plated tin copper pin, the PIN welding hole is 0.8mm, the width of the welding pad is > 0.5mm, the welding temperature is less than 370°C, the single welding time is less than 3S, and the number is less than 3 times;

