

Instructions

Ceramic Piezoresistive Pressure Sensor

PT218LR



| Summary

PT218LR is a high-volume, low-cost OEM product with high reliability and durability. It is produced with internationally advanced piezoresistive sensor cores. It has a compact design, an ultra-wide operating temperature range and a dedicated pressure guide port. The valve needle and other characteristics are especially suitable for the measurement and control of fluid pressure in the air conditioning and refrigeration industry

| Feature

- Compact stainless steel housing package
- Protection degree IP65
- Multiple electrical connection optional
- Working temperature-40 ~ 125℃
- Imported high performance thick film ceramic core

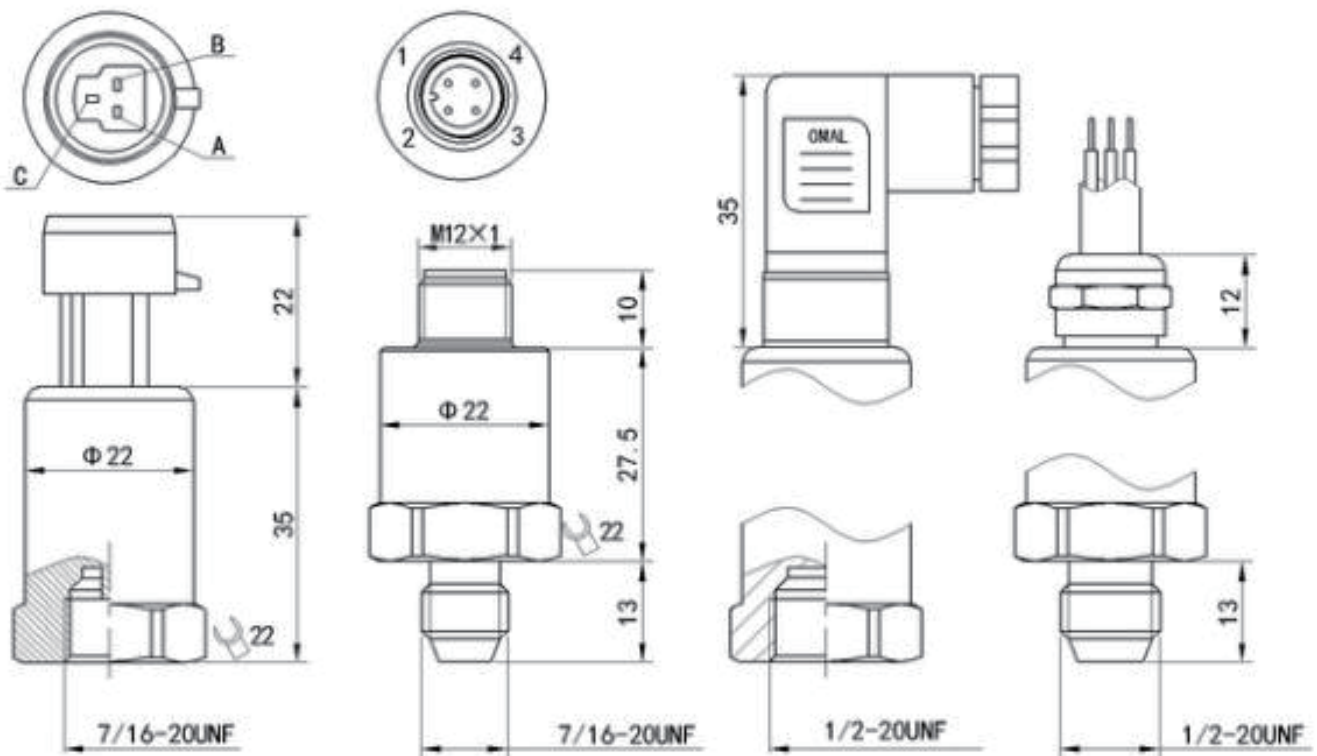
| Application

- Refrigeration control
- Air-conditioning unit


Specification


Pressure range	0~100bar (0~10MPa)			
Pressure type	Gauge pressure			
Accuracy	0.5% F.S			
Electrical Performance	2-wire	3-wire 0~10V	3-wire	3-wire
Output signal	4~20 mA	0~10V	0~5V	0.5~4.5V
Power supply	6.5~32Vdc	12~32Vdc	10~32Vdc	5Vdc
Overload resistance	<(U-10)/0.02	>20k	>20k	>20k
E-connection	M12x1 round connector 4-pin ,Hirschmann, PACK connector,waterproof connector			
Process connection	1/2-20UNF female,1/2-20UNF male;7/16-20UNF female,7/16-20UNF male			
Overload pressure	1.5 times rated pressure			
Diaphragm Temp	-40~125℃			
Compensation temp	0~80℃			
Protection degree	IP65			
Response time	≤ 10msec			
Long term stability	0.2% FS / year			


Dimension




E-connection

Hirschmann DIN 175301-803 C			
		Current	Voltage
	U+	1/red	1/red
	0V		2/black
	S+	2/black	3/green

Round connector 4-pin M12 x 1			
		Current	Voltage
	U+	1/brown	1/brown
	0V		4/black
	S+	3/blue	3/blue

Metric-Pack 150 series (3-pin)			
		Current	Voltage
	U+	B/red	B/red
	0V		A/black
	S+	A/black	C/green

Leading wire, Shielded			
		Current	Voltage
	U+	red	red
	0V		black
	S+	black	green

Ordering guide

Series code		PT218LR	-	X	-	X	-	X	-	X	-	X	-	X
Pressure unit	bar			B										
	MPa			M										
Pressure range	Pressure range value x					X								
Process connection	7/16-20UNF female								7UC					
	7/16-20UNF male								7U					
	1/2-20UNF female								1/2UC					
	1/2-20UNF male								1/2U					
Output	4~20mA								MA					
	0~10VDC								10V					
	0~5VDC								5V					
	0.5~4.5VDC								4V					
E-connection	Hirschmann connector (DIN 175301-803 C)											2D		
	M12×1 round connector 4-pin											T		
	Packard connector											PA		
	water-proof connector leading wire X meters											MX		
	100mm quick pin socket											XJ		
Material	SUS304 (Standard)													-
	Brass													H90