

HIGHJOIN

HPM530 Compact differential pressure switch

Instruction Manual



Nanjing Hangjia Electronic Technology Co., Ltd.

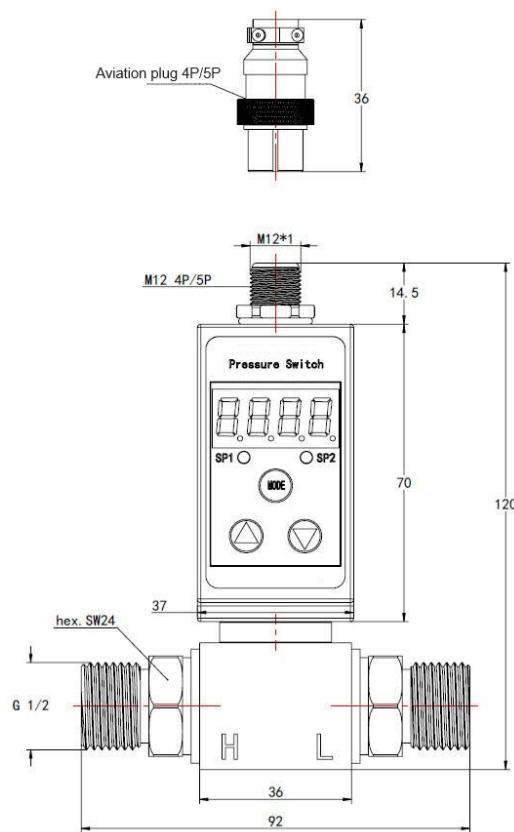
Overview

HPM530 compact differential pressure switch adopts silicon piezoresistive differential pressure core, special signal conditioning circuit processing, on-site display, and can output one analog quantity and two electronic switch quantities. The pressure interface is a stainless-steel threaded connection, which can be directly installed on the measuring pipeline or connected through a pressure pipe. This product is widely used in differential pressure, liquid level, flow measurement and control in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields.

Features

- ◆ 316L stainless steel isolation diaphragm structure
- ◆ Compact design, easy to install
- ◆ 4-digit LED on-site display
- ◆ Preset pressure switch point and delayed switching output
- ◆ Key adjustment and on-site setting of various parameters, easy to operate
- ◆ 2-way electronic switch output, load capacity 1.2A
- ◆ Analog output (4~20) mA

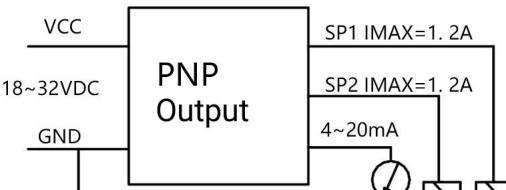
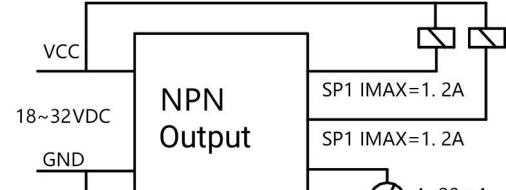
Structure Drawings



Technical Parameters

Measuring Range	0~0.01...3.5MPa	Accuracy Grade	$\leq \pm 0.5\%FS$
One-side overload	2 times of FS	Static Pressure	$\leq 4\text{MPa}$
Stability	$\pm 0.2\%\text{FS}/\text{year}$	Temperature Drift	$\pm 0.03\%\text{FS}/^\circ\text{C}$
Display Mode	4-bit Nixie tube	Display Range	-1999~9999
Power Voltage	24VDC	load capacity	<24V 1.2A
Ingress Protection	IP65	Switch Type	PNP/NPN
Interface material	304 Stainless Steel	Medium Temperature	-25~80°C

Electrical Connection

PNP Output		NPN Output
		
		
1: VCC	1: VCC (Brown)	1: VCC (Brown)
2: GND	2: SP2 (White)	2: SP2 (White)
3:4~20mA	3: GND (Blue)	3: GND (Blue)
-	4: SP1 (Black)	4: SP1 (Black)
-	-	5:4~20mA (Grey)

Ordering Guide

Model	Type				
HPM530	Differential pressure switch				
	Range (0~X)kPa	Measuring Range Fill in directly			
		Code	Output Signal		
		B1	4-20mA		
		B9	2 Relay outputs		
		B10	NPN		
		B11	PNP		
		B1B9	4-20mA+ 2 relay outputs		
		B1B11	4-20mA+ PNP		
		B1B10	4-20mA+ NPN		
		Code	Process connection		
		P1	M20×1.5		
		P3	G1/4		
		P4	G1/2		
		Code	Electrical connection		
		C1	Hirschmann connector		
		C3	Aviation plug		
		C5	M12×1		
		Code	Structure Material		
			Sensor Diaphragm	Pressure port	Shell
		M1	316L	Stainless Steel	Cast Aluminum
		M1A	316L	316L	Cast Aluminum
		M2	Titanium	Titanium	Cast Aluminum
		M3	Tantalum	Tantalum	Cast Aluminum
		M4	Hastelloy C	Hastelloy C	Cast Aluminum
		Code	Additional Function		
		Kn	Setting point,n=1~2		
		T	High temperature resistant		
		W	Waterproof and breathable		
HPM530	(0~X)kPa	B1B11	P4	C2	M1
					K2 T

Tips:

1. When ordering products with pressure point control, please indicate the number of pressure points, the pressure value to be controlled, and whether the switch point is normally open or normally closed.
2. For other special requirements, please contact us and indicate in the order.