

## HPM510 Compact Pressure Switch



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## Overview

HPM510 compact pressure switch is all stainless-steel structure, the front end with isolation diaphragm silicon piezoresistive sensor, through the special signal conditioning circuit processing, can output a relay switch signal. The product has small volume, light weight, all stainless-steel sealing structure, flexible use, simple operation, safe and reliable, widely used in hydropower, petroleum, chemical, machinery, hydraulic and other industries.

Application: Pressure measuring and control in kinds of process

## Feature

- ◆ Cost-effective
- ◆ Stainless steel structure, corrosion resistant performance is good.
- ◆ Small volume, light weight
- ◆ Precision grade than mechanical pressure switch
- ◆ Switch points can be set arbitrary between zero to the full
- ◆ Normally open or normally closed switch types are optional.
- ◆ Various optional interface pressure and electrical interface

## Technical Parameters

Measuring Range	-100kPa...0 ~ 0.01...60MPa	Pressure type	Gauge or absolute
Power Supply	18 ~ 30VDC	Stability	≤0.2% /year
Accuracy	≤±0.5%FS	Overload pressure	150%FS
Load capacity	<24V 2A	Switch type	1 way relay (normally open or closed)
Response time	<30ms	Switch lifecycle	> 1 million times
Protection	IP65	Medium temperature	-40 ~ 120℃
Working temperature	-25 ~ 80℃	Storage temperature	-40 ~ 100℃
Pressure interface	G1/4, G1/2, M20×1.5, etc.	Electronical connection	DIN43650, M12x1 or cable outlet
Anti-Vibration	20g/20 ~ 5000Hz	Anti-shock	50g/1ms

### Structure Drawings (unit: mm)

Hirschmann/DIN43650	M12x1	Cable outlet

### Electrical Interface

Hirschmann/DIN43650	M12x1 4P	Cable outlet
1: VCC	1: VCC	Red: VCC
2: GND	2: GND	Black: GND
3: relay+	3: relay+	Yellow:relay+
⊥ : relay-	4: relay-	Green:relay-

## Ordering Guide

Item No.	Type					
HPM510	Compact Pressure Switch					
	Pressure Range	Measuring Range				
	(0 ~ X)kPa	Fill out X directly				
		Code	Output signal			
		B9	relay output			
		Code	Process Connection			
		P1	M20×1.5			
		P3	G1/4			
		P4	G1/2			
		Code	Electrical Connection			
		C1	DIN43650			
		C2	Cable Outlet			
		C5	M12X1 - 4P			
		Code	Structure&Material			
			Diaphragm	Interface	Shell	
		M1	316L	Stainless Steel	Stainless Steel	
		M1A	316L	Stainless Steel	316L	
		M1B	316L	316L	316L	
		Code	Others			
		G	Gauge Pressure (Default)			
		T	High Temperature Resistance			
HPM510	(0~400)kPa	B9	P1	C1	M1	G

