

KPH8000 - Compact Pressure Switch



Benefits and Features

- Rugged Compact Design
- Long Cycle Life
- Ranges: Vacuum to 6100 PSIG
- Suitable for Pneumatic or Hydraulic Applications
- Easily Adjusted Setpoint
- Plug-in Connector Standard

General Description

The KPH pressure switch is a highly reliable, small footprint pressure switch ideal for OEM installations. Its long cycle life and rugged mechanical design give you assurance that it will provide your customer with reliable service during the life of your product.

The 8000 and 8200 series are usable with air, gas, lubricating oil, light fuel, or any one of many other industrial media. Its single pole double throw (SPDT) switch has mechanical reliability typically found only in reed switches. Unlike reed switches, however, the KPH is capable of switching AC loads of up to five amps, at 220 volts. Rugged, compact and reliable ... the perfect switch for your pressure applications.

Specifications

Range: -14.0 to 6100 PSIG

Media

KPH-8000: Gases or liquids

KPH-8200: Liquids only

Cleanliness: Non-depositing

Max. Viscosity: 97 cSt (450 SSU)

Repeatability: ±3% of full scale

Sensing Mechanism

KPH-8000: Diaphragm

KPH-8200: Piston

Fittings: 1/4" NPT

Optional: SAE (KPH-8200)

Wetted Parts

KPH-8000: Aluminum, Buna-N

KPH-8200: Aluminum, Buna-N, 420-SS, PTFE

Mechanical Data

Switching Rate: 100 Hz max.

Switch Life: 107 cycles min.

Vibration: 15g max.

Weight: 0.4 lbs

Electrical Data

Switch Type: SPDT snap-action

Maximum Resistive Loads

AC: 220 V @ 5 A

DC: 120 V @ 0.4 A

Switch Life

100% Load: 5 x 10⁴ cycles

50% Load: 10⁵ cycles

Protection: NEMA 4

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Ordering Information

Range (PSIG)	Deadband (non-adjustable) (PSI)	Burst Pressure (PSIG)	Temperature Range		Order Number Aluminum	
			Ambient (°F)	Medium (°F)		
-14.5 - 0	2 - 3	1200	15 to 175	-5 to 175	KPH-8021	-
3 - 30	2 - 4	1200	15 to 175	-5 to 175	KPH-8022	-
7.5 - 120	4 - 9	1200	15 to 175	-5 to 175	KPH-8023	-
15 - 230	4 - 13	1200	15 to 175	-5 to 175	KPH-8024	-
70 - 1000	150 - 220	5800	30 to 175	30 to 210	KPH-8221	-
150 - 2300	160 - 245	5800	30 to 175	30 to 210	KPH-8222	-
360 - 3600	160 - 245	5800	-10 to 175	-10 to 210	KPH-8223	-
580 - 6100	245 - 505	8700	-10 to 175	-10 to 210	KPH-8224	-
Options						
SAE fittings. Available in series KPH-8200 switches					S	
Splash protection cover for adjustment screw mechanism					EC	

Dimensions

