

Compact Pressure Switch



measuring
•
monitoring
•
analyzing

KPH



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



Contact:
Industrial Process Measurement, Inc.
3910 Park Avenue, Unit 7
Edison, NJ 08820
732-632-6400
support@instrumentation2000.com
<http://www.instrumentation2000.com>



Compact Pressure Switch Model KPH

Description

The KOBOLD KPH pressure switch is highly reliable, has a compact design, and is ideal for OEM installations. Its long cycle life and rugged mechanical design assure reliable service. The 8000 series is suitable for low to medium pressure monitoring of air, gas, lubricating oil, light fuel, and many other types of compatible industrial media. The 8200 series is suitable for high pressure monitoring of lubricating oil, light fuel, and many other types of compatible industrial media. The KPH snap-action switch comes standard with gold plated contacts which have a mechanical reliability equal to that of a reed switch. However, the KPH surpasses reed switches in its capacity to switch AC loads up to 5 amps, at 220V.



Specifications

Switching Range: -14.5...0 to 580...6100 PSIG

Media:

KPH-80xx: Compatible gases or liquids

KPH-82xx: Compatible liquids only

Media Characteristics: Non-depositing

Max. Viscosity: 1000 cSt

Repeatability: ±3% (±4% vacuum range)

Sensing Mechanism:

KPH-80xx: Diaphragm

KPH-82xx: Piston

Fittings: 1/4" NPT

Optional: G 1/4 (KPH-80xx)
7/16-20 UNF (KPH-82xx)

Wetted Parts:

KPH-80xx: Aluminum, (NBR or FKM)

KPH-82xx: Aluminum, 430 SS, PTFE, NBR

Temperature Rating:

KPH-80xx: 32...175 °F Ambient & Fluid

KPH-82xx: -4...175 °F Ambient & Fluid

Mechanical Data:

Switching Rate: 100 Hz max.

Switch Life: 10⁷ cycles min.

Vibration: 15g max.

Weight: 0.5 lbs

Electrical Data:

Switch Type: Snap-action switch with gold plated contacts

Max. 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: IP65

KPH Ordering Information

Range (PSIG)	Deadband (PSI)	Burst Pressure (PSIG)	Material / Model Number		
			Aluminum/NBR	Aluminum/FKM	Aluminum/SS/NBR/PTFE
-14.5...0	2.2...3	1160	-	KPH-8021	-
3...30	3...5	1160	-	KPH-8022	-
7.5...115	5...13	1160	KPH-8023	-	-
15...230	6...18	1160	KPH-8024	-	-
15...435	15...70	1160	KPH-8025	-	-
70...1015	150...220	5800	-	-	KPH-8221
150...2320	160...245	5800	-	-	KPH-8222
360...3600	160...245	5800	-	-	KPH-8223
580...6100	245...505	8700	-	-	KPH-8224
Options					
G 1/4" process connection in place of the standard 1/4" NPT (KPH-80xx only)					G
7/16-20 UNF process connection in place of the standard 1/4" NPT (KPH-82xx only)					S
Splash protection cover for adjustment screw mechanism					EC
Hirschmann electrical connector with 1/2" NPT conduit electrical connection					C