Mechanical Pressure Switch



measuring

monitoring

analyzing

KPH300



- Switching Ranges: -5...-28 "Hg to 450...4600 PSIG
- Field Adjustable Setpoint
- Diaphragm or Piston Type Sensing Element
- SPDT Micro-Switch Contact
- CE Compliant to Suppress RFI, EMI and ESD
- RoHS Compliant



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

Mechanical Pressure Switch Model KPH300



Description

The KPH300 is an excellent choice for pressure switching applications that require a reliable solution at an affordable price. It utilizes proven diaphragm or piston sensing technology, depending on the measuring range. The setpoint and hysteresis are both field adjustable. These can also be factory-set at your specified setpoint for a small additional charge. SPST and SPDT micro-switch contacts are available in zinc-nickel plated steel for extended service life. The combination of reliability and low cost also makes the KPH300 an excellent choice for many OEM applications.

Applications:

- Hydraulic and Pneumatic Systems
- Pumps and Compressors
- Tank Monitoring
- Leak Detection
- Water Management

Technical Details

Switching Ranges: -5...-28 "Hg to 450...4600 PSIG
Switch Type: Snap-Action with Adjustable Hysteresis

Process Connection: 1/4"or 1/8" Male NPT

(Others Available on Request)

Measuring Element: NBR

Wetted Materials: Zinc-Nickel Plated Steel and NBR

Housing Material: Zinc-Nickel Plated Steel

Media, Ambient and

Storage Temperature: -4...176 °F

Proof Pressure

5/28-VAC: 350 PSIG **3/7 to 30/290:** 870 PSIG **100/220 to 450/4600:** 5000 PSIG

Switching Parameters

Funtion: SPDT

Repeatability: ±2% of Full Scale Range at 70 °F

Contact Rating: $\begin{array}{c} \text{6 A @ 125/250 V}_{\text{AC}}, \\ \text{6 A @ 12/24 V}_{\text{DC}}, \end{array}$

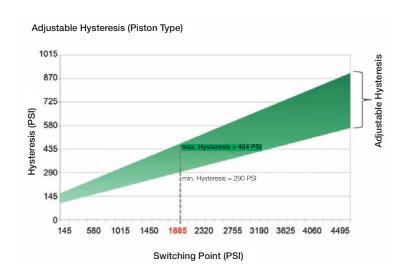
Hysteresis: Adjustable (See Charts)
Contact Material: Solid Silver, Self-Cleaning
Frequency: Max. 100 cycles/min
Service Life: >1,000,000 Load Cycles

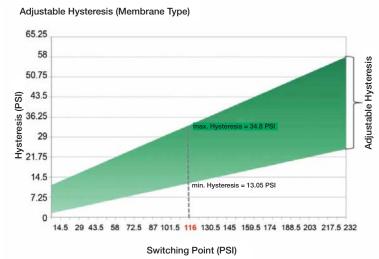
Ingress Protection: IP65 (Plug Connector (Hirschman))

IP67 (All Others)

Weight: 0.2 lbs. Approx.







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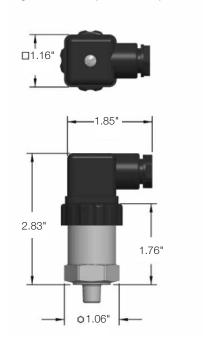
Order Details (Example: KPH300-1 2 15/220 8 P; 100 PSI Falling))

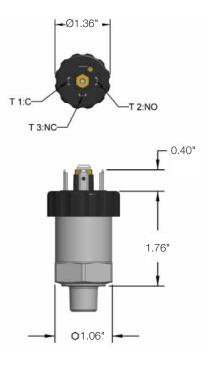
Model	Switch	Fitting ¹⁾	Switching Pressure Range (Adjustable)	Electrical Connection ²⁾	Options ³⁾
KPH300V-			5/28-VAC = -528 "Hg		
KPH300L-	3. . = SPDT	1. . = 1/8" NPT, Male	3/7 = 37 PSIG 3/15 = 315 PSIG 3/30 = 330 PSIG 7/70 = 770 PSIG 7/120 = 7120 PSIG 15/200 = 15200 PSIG 15/230 = 15230 PSIG 30/290 = 30290 PSIG	1 = Plug Connector (DIN 43 650) with 36"Cable 8 = Plug Connector (DIN 43 650) (Standard)	C = Plug Connector (DIN 43 650) with 1/2" NPT Conduit (with Electrical Connection 8 or 1) SP = Factory Set Switch Point (Please Specify the Desired Pressure Switch Point and Indicate Rising or
КРН300Н-		2 = 1/4" NPT, Male (Standard)	100/220 = 100220 PSIG 145/435 = 145435 PSIG 145/1160 = 1451160 PSIG 145/1750 = 1451750 PSIG 145/2320 = 1452320 PSIG 300/2900 = 3002900 PSIG 300/3600 = 3003600 PSIG 450/4600 = 3004600 PSIG	25 = M12 x 1 (4-pin Micro DC) 36 = 3' Integral Cable	Falling Pressure) EP = EPDM Diaphragm (-10/250 °F) HNBR = Low Temperature Nitrile (-40/110 °F) VT = FKM Diaphragm (0/250 °F) SS = 316 SS Wetted Materials
Accessories: P/N 807.037 = 4-Pin Micro-DC Connector with 6-foot Cable for Electrical Connection 25					

P/N 807.037/5M = 4-Pin Micro-DC Connector with 16-foot Cable for Electrical Connection 25 P/N 807.037/10M = 4-Pin Micro-DC Connector with 32-foot Cable for Electrical Connection 25

Dimensions

Electrical Connection 8, Plug Connector (DIN 43 650)





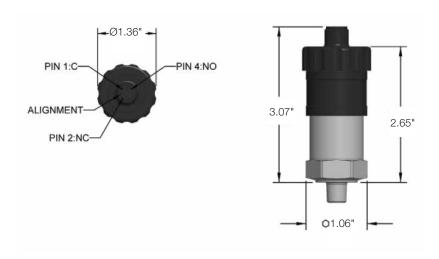
Other fittings available on request
 Other electrical connectios available on request
 Not all options are available for all ranges. Consult factory





Dimensions (Cont.)

Electrical Connection 25, M12 x 1(4-pin Micro DC)



Electrical Connection 36, 3' Integral Cable

