Propense PSD25 Series Pressure Switches Features



• Compact pressure switch features simple setup using mechanical adjustment dials

- Extremely durable housing with 316 stainless steel process connection
- No moving parts ensure long-term stability without setpoint drift

Agency Approvals

- cULus, File number E320431
- CE • RoHS

- LEDs indicate switching and operating status
- Complementary switching outputs (N.O./N.C.), DC
- Easy set-up dials
- Vibration and shock-resistant



ProSense Series Pressure Sensors									
Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Cable Assemblies				
PSD25-0P-0145H	Pressure switch, DC, PNP NO/NC, 7.5 to 145 psig range, 1/4" NPT male port	1	0.21		CD12L-0B-020-A0 CD12L-0B-020-C0 CD12M-0B-070-A1				
PSD25-0P-1450H	Pressure switch, DC, PNP NO/NC, 75 to 1450 psig range, 1/4" NPT male port	1	0.21						
PSD25-0P-5800H	Pressure switch, DC, PNP NO/NC, 290 to 5800 psig range, 1/4" NPT male port	1	0.21		CD12M-0B-070-C1 (order separately - see Proximity Sensor section for cable specs)				
Accessory									
PSD-CV	Transparent plastic protective cap for PSD series	1	0.01		PSD Series Sensors				

Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

ProSense PSD25 Series Technical Specifications							
Operating Voltage	9.6 to 32 VDC						
Connection Pin Material	Gold-plated						
Output Maximum Load Current	500 mA - See Setting and Operation Guide on following page.						
Current Consumption	< 25 mA						
Switching Frequency	100 Hz						
Setting Accuracy of Switch Points	< ± 2.5% of full range (limit point calibration)						
Repeatability	< ± 0.5% of full range						
Temperature Drift	< \pm 0.5%, of full temperature range/10 K;32 to 176°F (0 to 80°C).						
Housing Material	PBT (Pocan); PC (Makrolon); FPM (Viton); stainless steel (316S12)						
Materials (wetted parts)	Stainless steel (316S12)						
Operating Temperature	–13 to 176°F (–25 to 80°C)						
Medium Temperature	-13 to 176°F (-25 to 80°C)						
Storage Temperature	-40 to 212°F (-40 to 100°C)						
Protection	IP 67						
Protection Class	Class III						
Insulation Resistance	> 100 MΩ (500 VDC)						
Shock Resistance	50g (DIN / IEC 68-2-27, 11ms)						
Vibration Resistance	20g (DIN / IEC 68-2-6, 10 - 2000 Hz)						
ЕМС							
EN 61000-4-2 ESD	4 kV/8 kV AD						
EN 61000-4-3 HF Radiated	10 V/m						
EN 61000-4-4 Burst	2 kV						
EN 61000-4-6 HF Conducted	10 V						

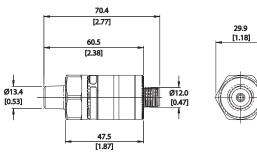
Applications (Type of Pressure: Relative Pressure, Liquids and Gases)									
Part Number	Setpoint Scale Resetpoint Scale		Permissible Overload Pressure	Bursting Pressure					
	Bar (Psig)	Bar (Psig)	Bar (Psig)	Bar (Psig)					
PSD25-0P-5800H	20 to 400 (290 to 5800)	12 to 392(175 to 5685)	600 (8700)	1600 (23200)					
PSD25-0P-1450H	5 to 100 (75 to1450)	3 to 98 (50 to 1420)	200 (2900)	1000 (14500)					
PSD25-0P-0145H	0.5 to 10 (7.5 to 145)	0.3 to 9.8 (5 to 142)	25 (362)	300 (4350)					

Note: Full vacuum permissible

WARNING! AVOID STATIC AND DYNAMIC OVERPRESSURE EXCEEDING THE GIVEN OVERLOAD PRESSURE. Exceeding the bursting pressure for even a short time can cause destruction of the unit and possible injuries!

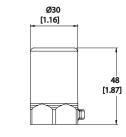
Orsense PSD25 Series Pressure Switches

Switch Dimensions



Note: tightening torgue 25 Nm (18.4 lb-ft)

Switch Cover Dimensions

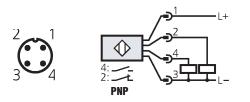


Dimensions shown mm [inches]

See our website

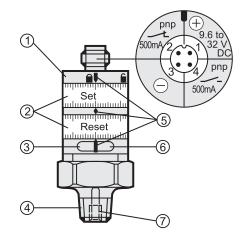
for complete Engineering drawings.

PSD25 Wiring Diagrams



Cable Assembly Wiring Colors: Pin 1 - Brown Pin 2 - White Pin 3 - Blue Pin 4 - Black Note: wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

Setting and Operation



- 1. locking ring
- 2. setting rings (manually adjustable after unlocking)
- 3. LED green: supply voltage O. K.
- 4. process connection ¼ " NPT; tightening torque 25 Nm
- 5. setting marks
- 6. LED yellow: Set value reached, OUT1 = ON / OUT2 = OFF
- 7. internal thread M5
- Minimum distance between Set and Reset = 2% of the final value of the measuring range.
- To obtain the setting accuracy: Set both rings to the minimum value, then set the requested values.