

PRESSURE SWITCH

PS Series

Industrial Pressure Switches

A configurable mechanical pressure-switch family covering low-pressure diaphragm and high-pressure piston applications, with SPST/SPDT options and multiple industrial connectors.



PRESSURE RANGE	OUTPUT	PROTECTION
0.2 to 400 bar across PS2 / PS3A / PS4	SPST NO/NC or SPDT, model dependent	IP00 / IP65 / IP67 / IP68 by termination

PRODUCT OVERVIEW

The PS Series provides three mechanical sensing architectures for equipment pressure control. PS2 covers low-pressure diaphragm applications, PS3A provides an adjustable piston switch from 10 to 400 bar, and PS4 combines a snap-action contact with a high-pressure diaphragm for 1 to 10 bar switching under system pressures up to 200 bar.

KEY FEATURES

- Three sensing platforms for low- and high-pressure applications
- Factory preset or adjustable switching options, model dependent
- SPST normally-open, SPST normally-closed, and SPDT configurations
- Broad elastomer, pressure-port, and connector selection
- PS3A proof pressure up to 600 bar
- PS4 options aligned with 2014/35/EU LVD and 2011/65/EU RoHS

TYPICAL APPLICATIONS

- Hydraulic and pneumatic equipment
- Pumps and compressors
- Mobile and industrial machinery
- Process and utility equipment

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
PS2 switching ranges	0.2-2 bar, 0.5-8 bar, or 1-16 bar
PS2 diaphragm options	NBR, FVMQ, low-temperature NBR, FKM/Viton, EPDM, or custom stainless steel
PS2 ports	G1/8, 1/8 NPT, R1/8, G1/4, 7/16-20 UNF, R1/4, 1/4 NPT, M10 x 1, or R3/8
PS3A switching ranges	10-25, 25-70, 70-120, 120-160, 160-200, or 200-400 bar
PS3A proof pressure	600 bar
PS3A repeatability	+/-1% to +/-2% FS
PS3A temperature range	Media and ambient: -40 to +120 deg C
PS3A electrical rating	Maximum 30 VDC / 0.1 A and 250 VAC / 5 A
PS3A process connection	G1/4 standard; custom options
PS4 switching range	1-10 bar; maximum system pressure 200 bar
PS4 electrical rating	48 V / 2 A standard; custom options
PS4 repeatability	Maximum +/-2% FS at room temperature
PS4 mechanical life	>1 x 10 ⁶ cycles; maximum switching frequency 1 Hz
PS4 vibration / shock	10 g, 10-2,000 Hz per ISO 16750-3; 30 g, 14 ms per DIN 40046 T7
Electrical connections	Faston, DIN 43650, M12 x 1, Deutsch, or direct cable; model dependent
Ingress protection	Faston IP00; DIN IP65; M12/Deutsch IP67; direct cable up to IP68
Compliance reference	PS4: 2014/35/EU Low Voltage Directive and 2011/65/EU RoHS

Configuration note: Specifications and approvals can vary by pressure range, output, connection, and material selection. Confirm the exact ordering code and controlled specification with CASCED US before design release.

[View the current product page and request a quote at cascaded-us.com](https://cascad-us.com)

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