Pressure and level transmitters

Adjustable Mechanical Pressure Switch, 0.35 to 414 bar

Model DW-MPS

Compact diaphragm-type mechanical pressure switch with a snap-action micro switch and a field-adjustable or factory-set switch point from 0.35 to 414 bar in six ranges, SPST or SPDT contacts rated 5 A, and DIN, M12, sealed automotive, spade or flying-lead connections with up to IP69.



Range
0.35–414 bar

Contact rating
5 A at 125/250 V AC

Protection
Up to IP69

Features

- Field-adjustable or factory-set switch point, on rising or falling pressure
- Snap-action micro switch, SPST-NO, SPST-NC or SPDT
- Diaphragm sensing with O-ring cushion; piston actuator for high pressures
- Six adjustment ranges from 0.35 bar up to 414 bar
- DIN 43650, M12, sealed automotive, spade, screw or flying-lead connection
- Up to IP69; 1 million cycles mechanical life

Applications

Industrial and mobile hydraulics, Pneumatics, Water processing, Refrigeration and air conditioning, Beverage industry

Specifications

Performance

Set-point range	0.35–6 bar (5–85 psi); 4–20 bar (65–300 psi); 8–40 bar (125–600 psi); 35–170 bar (500–2500 psi); 69–414 bar (1000–6000 psi); 35–240 bar (500–3500 psi)
Switching differential	0.07–0.7 bar; 0.55–2.1 bar; 1.3–5.5 bar; 5–20 bar; 10–41 bar; 5–24 bar (same order of ranges)
Repeatability	±2% of full set-point range at 21 °C ambient

Set point	Field adjustable (shipped at bottom of range) or factory set; rising or falling pressure
Over pressure	620 bar (9000 psi) static; 517 bar (7500 psi) dynamic

Electrical

Switching element	Snap-action micro switch
Contact configuration	SPST-NO, SPST-NC or SPDT
Contact rating	5 A 125/250 V AC; 5 A 12/24 V DC; 5 A at 40 V DC; option 0.2 A 60 V DC; gold contacts for < 12 V DC / 20 mA
Electrical connection	1/4" spade, 6-32 screw terminals, flying leads, DIN 43650A (with or without indicator light), DIN 43650C, M12×1, sealed automotive connectors (2- and 3-pin)

Mechanical

Pressure port	1/8 NPT, 1/4 NPT, 1/8 BSPP, 1/4 BSPP, 7/16-20 SAE (male or swivel), 9/16-18 SAE, M10×1, M12×1.5
Diaphragm material	Buna-N (standard); EPDM, polyimide, FKM or low-temperature nitrile optional
Housing material	Zinc-plated steel (standard); electroless nickel-plated steel or 316 stainless steel optional
Sensing element	Diaphragm with O-ring cushion; piston actuator above 700 psi
Weight	Approx. 0.09 kg
Mechanical life	1,000,000 cycles
Options	316 stainless steel housing, spiral restrictor, oxygen cleaning, gold contacts

Environmental

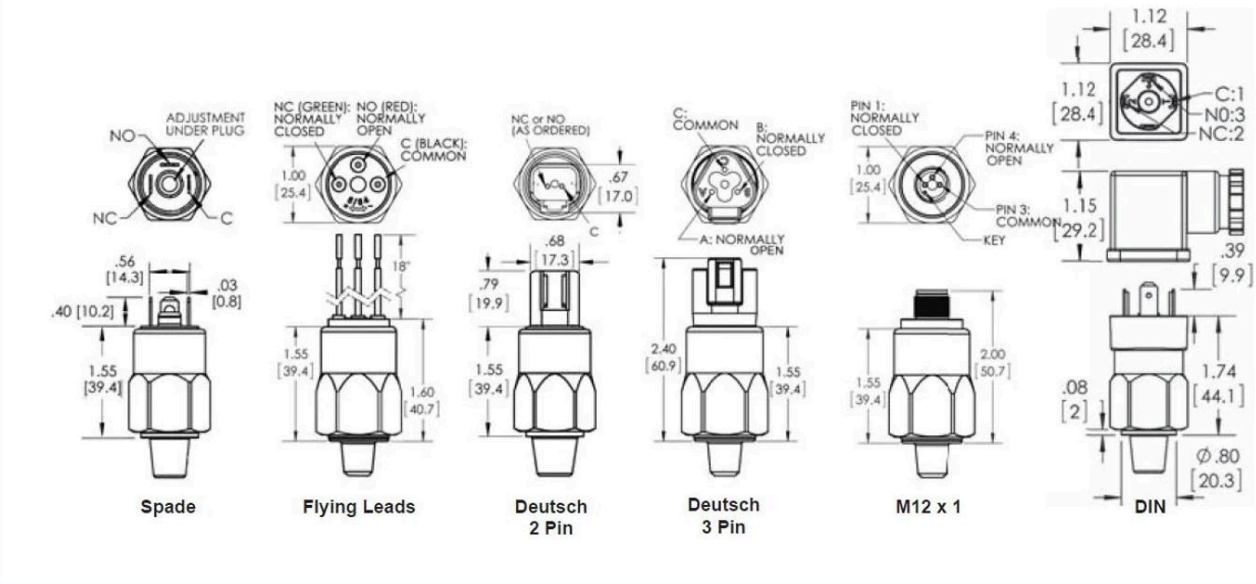
Ingress protection	IP00 (exposed terminals); IP65 (DIN); IP69 (flying leads, M12, integral automotive connector)
Temperature range	Buna-N −26 to +110 °C; EPDM −23 to +121 °C; polyimide −40 to +110 °C; FKM −18 to +150 °C; low-temperature nitrile −40 to +110 °C

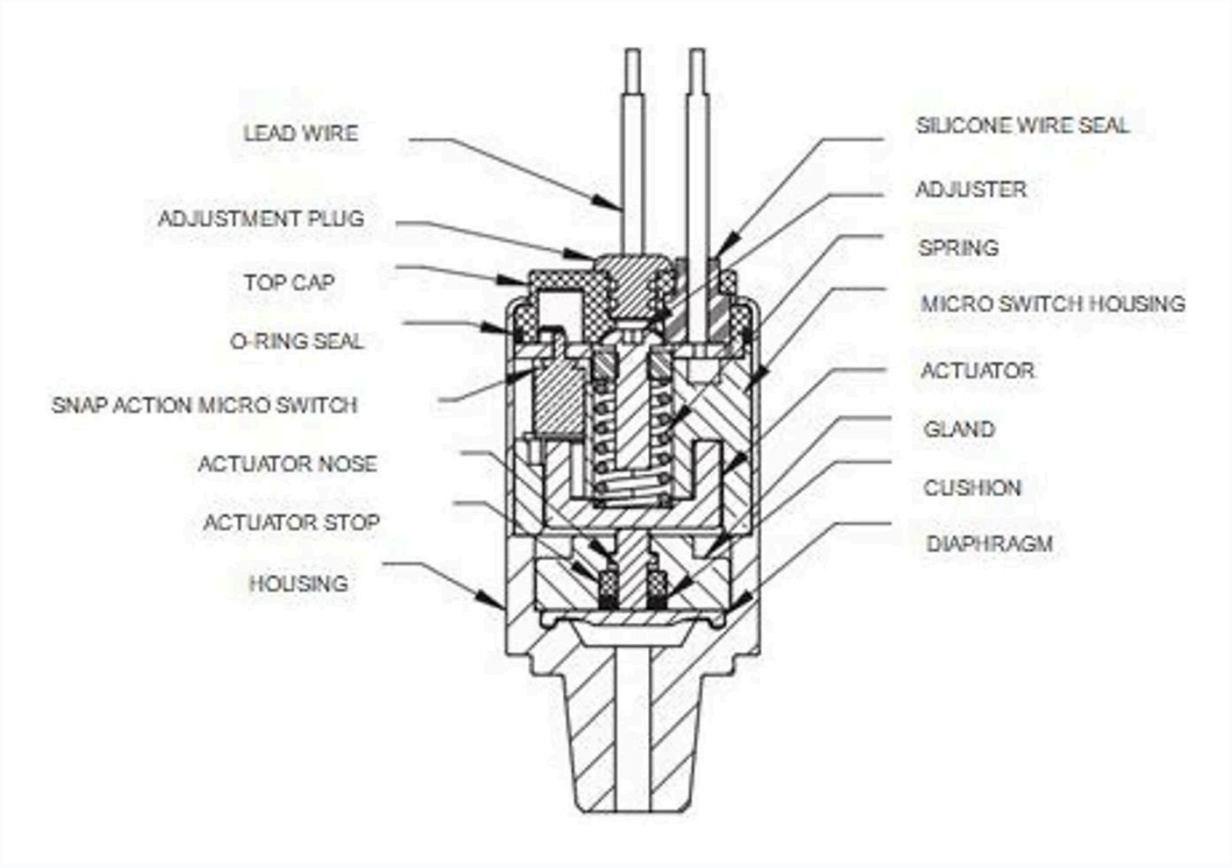
Ordering and support

Pricing, samples, lead time and custom versions: xyx@gzdwin.com, +86 181 0280 8901.

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Dimensions and wiring





Drawings are for reference. Dimensions in millimetres unless stated.