

Honeywell Pressure Switches Line Guide



Better under pressure. For years, manufacturers and operators of heavy-duty equipment have trusted Honeywell pressure and vacuum switches. They're proven under pressure, in applications constantly under attack from chemical splashes, performance spikes and other harsh environments. These switches sense a change in the pressure or vacuum, opening or closing an electrical circuit when the designated point is reached.

Honeywell offers an impressive line of standard products, but our engineering expertise and understanding afford us the ability to modify existing parts or create an original component just for your specifications. Compact size. Durable construction. Enhanced set point integrity. It's all standard, along with Honeywell flexibility.

FEATURES

PRESSURE SWITCHES

1000 Series.

Features: Low set point: actuates at 20 psi
 • Reduced part count • High burst rating • Banjo bolt fitting • Sealed to IP65

Benefits: Small, low-cost switch actuated by hydraulic fluid or gas. Excels in harsh environments such as extreme weather conditions or particle-filled areas. Applications include small vehicle brake light actuation, compact agricultural tractors, utility vehicles, trucks and lift trucks, and small self-propelled vehicles.

LE Series.

LP Series.

Features: Life cycle rating up to 2 million (LP Series) or 1 million (LE Series) • IP67 sealing rating • Operating temperature range -40 °C to 120 °C [-40 °F to 248 °F]
 • Proof pressure 500 psi [34,47 bar]
 • Burst pressure 750 psi for set points 3.5 psi to 22 psi, 1250 psi for set points > 22 psi • Hysteresis option (LP Series)
 • Variety of pressure ports and electrical terminations • Pressure switching set point range factory set or field adjustable 3.5 psi to 150 psi [0,24 bar to 10,34 bar]
 • Switching point accuracy up to ±2 %

Benefits: Extends equipment uptime and life, provides resistance to corrosion, reduces service costs, and protects equipment and operators. Configurability simplifies the design-in process, eliminates tooling costs, and reduces manufacturing labor costs. Durability allows for use in many tough applications. Potential applications include agricultural machinery, boilers, CNC machines, compressors, food & beverage equipment, fracking equipment, generators, HVAC/R equipment, heavy duty construction machinery, heavy duty trucks, lawn & garden, marine vessels, material handling machinery, mud pumps, pneumatic equipment, presses and punches, pressure washers, railway, trash compactors, water pumps, and water jet cutting equipment.

MH Series.

Features: Life cycle rating up to 1 million • IP67 sealing rating • Operating temperature range -40 °C to 120 °C [-40 °F to 248 °F] max. (Optional temperature range per diaphragm types) • Proof pressure 6000 psi • Burst pressure 9000 psi • Variety of pressure ports and electrical terminations • Pressure switching set point range 40 psi to 500 psi

ME Series.

Features: Life cycle rating up to 1 million • IP67 sealing rating • Operating temperature range -40 °C to 120 °C [-40 °F to 248 °F] • Proof pressure 4000 psi • Burst pressure 8000 • Variety of pressure ports and electrical terminations • Pressure switching set point range 25 psi to 350 psi

Benefits: Extends equipment uptime and life, provides resistance to corrosion, reduces service costs, and protects equipment and operators. Configurability simplifies the design-in process, eliminates tooling costs, and reduces manufacturing labor costs. Durability allows for use in many tough applications. Potential applications include agricultural machinery, boilers, CNC machines, compressors, food & beverage equipment, fracking equipment, generators, HVAC/R equipment, heavy duty construction machinery, heavy duty trucks, lawn & garden, marine vessels, material handling machinery, mud pumps, pneumatic equipment, presses and punches, pressure washers, railway, trash compactors, water pumps, and water jet cutting equipment.

Pressure Switches Line Guide



Pressure Switches

	Series 1000	LP Series	LE Series
Type	hydraulic brake pressure switch	low pressure premium	low pressure economy
Set point range	20 psi ±10 psi [1,37 bar ±0,69 bar]	3.5 psi to 150 psi	3.5 psi to 150 psi
Contacts	silver-plated copper contacts	gold-plated	gold-plated
Operating pressure	2400 psi	250 psi max.	250 psi max.
Proof pressure	2400 psi	500 psi	500 psi
Burst pressure	4800 psi	750 psi for set points 3.5 psi to 22 psi, 1250 psi for set points > 22 psi	750 psi for set points 3.5 psi to 22 psi, 1250 psi for set points > 22 psi
Smart Diagnostic Technology option	no	yes	yes
Pressure port	M10 x 1.25 banjo fitting (single or double available), M10 x 1, 1/8-27 NPT	1/4-18 NPT; 1/8-27 NPT; 1/2-20 UNF; 1/8-27 PTF; M12 x 1.5; M14 x 1.5; 9/16-18 UNF; 3/4-16 UNF; G1/8 BSPP; 7/16-20 UNF; R1/8 BSPT; M10 x 1.0; R1/2 BSPT; G1/4 BSPP; R1/4 BSPT	
Electrical termination	1/4 in blade	spade terminals, screw terminals, Deutsch DT04-3P-E005 (3-pin connector), Amp Super Seal 1.5 - 282105-1 (3-pin connector), 10-inch cable, 18 AWG (wire out, no connector), 10-inch cable with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 10-inch cable with Amp Super Seal 1.5 - 282105-1 (3-pin connector) (18 AWG)*, 10-inch cable with Metripack 280 Delphi 15300002 (2-pin connector) (18 AWG)*, 10-inch cable with Din43650-C (3-pin connector) (18 AWG)*, 10-inch cable with M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-pin connector) (18 AWG)*, 10-inch cable with Packard Weatherpack male terminal - 12020827 (3-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT04-2P-E005 (2-pin connector) (18 AWG), 3-inch cable with Packard 2P Tower connector - 12015792 (2-pin connector) (18 AWG), 2.75-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (18 AWG), 4-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (16 AWG), 5.5-inch cable with ITT Cannon 2P Sure-Seal circular connector - SS2R-120-1804-000 (2-pin connector) (18 AWG), 8.5-inch cable with ITT Cannon 3P Sure-Seal circular connector - SS3R-120-8551-001 (3-pin connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT06-3S-EPO6 (3-socket connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 4.5-inch cable with blade terminals 6,3 mm x 0,8 mm (16 AWG)*, 10-inch cable with Metripack 2-pin shroud connector 153000027 (18 AWG), 6-inch cable with Amp Super Seal 1.5 - 282104-1 (2-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT06-2S-CE06 (2-socket connector) (18 AWG), Deutsch DT04-2P-E005 (2-pin connector), 10-inch cable with Metripack 150 Delphi 12129615 (3-pin connector) (18 AWG)*, 6-inch cable with AMP Super Seal 1.5 - 282080-1 (2-pin connector) (18 AWG), 10-inch cable with AMP 2,5 mm system series connector 1-967402-1 (18 AWG)*, 4.5-inch cable with Packard shroud connector 12015792 (2-pin connector) (18 AWG), 10-inch cable with Metripack 150 Delphi 12052641 (2-pin connector) (18 AWG), 8.5-inch cable with Deutsch plug HD 16-3 96S (3-pin connector) (16 AWG)	
Mechanical life	depends on application	2 million	1 million

*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNC/SPNO) by making suitable connections. Refer to wiring diagram.



Pressure Switches

HP Series

HE Series

Type	high pressure premium	high pressure economy
Set point range	100 psi to 4500 psi	150 psi to 4500 psi
Contacts	silver / gold inlay	silver
Operating pressure	5000 psi max.	5000 psi max.
Proof pressure	10,000 psi (Base Style A) 6,500 psi (Base Style B)	10000 psi
Burst pressure	20,000 psi (Base Style A) 9,000 psi (Base Style B)	20000 psi
Smart Diagnostic Technology option	yes	yes
Pressure ports	1/4-18 NPT; 1/8-27 NPT; 1/2-20 UNF; M12 x 1.5; M14 x 1.5; 9/16-18 UNF; 3/4-16 UNF; M18 x 1.5; 7/16-20 UNF; 7/8-14 UNF; 1/2-14 NPT; M10 x 1.0; G1/4 BSPP <i>NOTE: Port Style C: Switches less than 975 psi will use Base Style B; switches greater than 975 psi will use Base Style A. Port Styles F and G: Switches less than 350 psi will use Base Style B; switches greater than 350 psi will use Base Style A. Port Styles A, B, E, M, P, T, and Y will use Base Style B.</i>	
Electrical termination	spade terminals, screw terminals, Deutsch DT04-3P-E005 (3-pin connector), Amp Super Seal 1.5 - 282105-1 (3-pin connector), 10-inch cable, 18 AWG (wire out, no connector), 10-inch cable with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 10-inch cable with Amp Super Seal 1.5 - 282105-1 (3-pin connector) (18 AWG)*, 10-inch cable with Metripack 280 Delphi 15300002 (2-pin connector) (18 AWG)*, 10-inch cable with Din43650-C (3-pin connector) (18 AWG)*, 10-inch cable with M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-pin connector) (18 AWG)*, 10-inch cable with Packard Weatherpack male terminal - 12020827 (3-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT04-2P-E005 (2-pin connector) (18 AWG), 3-inch cable with Packard 2P Tower connector - 12015792 (2-pin connector) (18 AWG), 2.75-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (18 AWG), 4-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (16 AWG), 5.5-inch cable with ITT Cannon 2P Sure-Seal circular connector - SS2R-120-1804-000 (2-pin connector) (18 AWG), 8.5-inch cable with ITT Cannon 3P Sure-Seal circular connector - SS3R-120-8551-001 (3-pin connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT06-3S-EP06 (3-socket connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 4.5-inch cable with blade terminals 6,3 mm x 0,8 mm (16 AWG)*, 10-inch cable with Metripack 2-pin shroud connector 153000027 (18 AWG), 6-inch cable with Amp Super Seal 1.5 - 282104-1 (2-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT06-2S-CE06 (2-socket connector) (18 AWG), Deutsch DT04-2P-E005 (2-pin connector), 10-inch cable with Metripack 150 Delphi 12129615 (3-pin connector) (18 AWG)*, 6-inch cable with AMP Super Seal 1.5 - 282080-1 (2-pin connector) (18 AWG), 10-inch cable with AMP 2,5 mm system series connector 1-967402-1 (18 AWG)*, 4.5-inch cable with Packard shroud connector 12015792 (2-pin connector) (18 AWG), 10-inch cable with Metripack 150 Delphi 12052641 (2-pin connector) (18 AWG), 8.5-inch cable with Deutsch plug HD 16-3 96S (3-pin connector) (16 AWG)	
Mechanical life	2 million (Base Style A) 1 million (Base Style B)	1 million

*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNC/SPNO) by making suitable connections. Refer to wiring diagram.



Pressure Switches

MH Series

ME Series

Type	medium pressure economy	medium pressure economy
Set point range	40 psi to 500 psi	25 psi to 350 psi
Contacts	gold-plated	gold-plated
Operating pressure	600 psi max.	500 psi max.
Proof pressure	6,000 psi	4,000 psi
Burst pressure	9,000 psi	8,000 psi
Smart Diagnostic Technology option	no	yes
Pressure ports	1/4-18 NPT; 1/8-27 NPT; 1/2-20 UNF; 1/8-27 PTF; M12 × 1.5; M14 × 1.5; 9/16-18 UNF; 3/4-16 UNF; G1/8 BSPP; 7/16-20 UNF; R1/8 BSPT; M10 × 1.0; R1/2 BSPT; G1/4 BSPP; R1/4 BSPT	
Electrical termination	spade terminals, screw terminals, 10-inch cable with 18 AWG (wire out, no connector), 10-inch cable w/Metripack 280 Delphi 15300002 (2-pin connector) (18 AWG)*, 10-inch cable w/Deutsch DT04-2P-E005 (2-pin connector) (18 AWG), 3-inch cable w/Packard 2P tower connector - 12015792 (2-pin connector) (18 AWG), 2.75-inch cable w/Packard 2P shroud connector - 12010973 (2-pin connector) (18 AWG), 4-inch cable w/Packard 2P shroud connector - 12010973 (2-pin connector) (16 AWG), 5.5-inch cable w/ITT Cannon 2P Sure-Seal circular connector - SS2R-120-1804-000 (2-pin connector) (18 AWG), 4.5-inch cable w/blade terminals 6,3 mm x 0,8 mm (16 AWG)*, 10-inch cable w/ Metripack 2-pin shroud connector 153000027 (18 AWG), 6-inch cable w/Amp Super Seal 1.5 - 282104-1 (2-pin connector) (18 AWG)*, 10-inch cable w/Deutsch DT06-2S-CE06 (2-socket connector) (18 AWG), Deutsch DT04-2P-E005 (2-pin connector), 6-inch cable w/ AMP Super Seal 1.5 - 282080-1 (2-pin connector) (18 AWG), 10-inch cable w/AMP 2,5 mm system series connector 1-967402-1 (18 AWG)*, 4.5-inch cable w/Packard shroud connector 12015792 (2-pin connector) (18 AWG), 10-inch cable w/Metripack 150 Delphi 12052641 (2-pin connector) (18 AWG)	spade terminals, screw terminals, Deutsch DT04-3P-E005 (3-pin connector), Amp Super Seal 1.5 - 282105-1 (3-pin connector), 10-inch cable, 18 AWG (wire out, no connector), 10-inch cable with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 10-inch cable with Amp Super Seal 1.5 - 282105-1 (3-pin connector) (18 AWG)*, 10-inch cable with Metripack 280 Delphi 15300002 (2-pin connector) (18 AWG)*, 10-inch cable with Din43650-C (3-pin connector) (18 AWG)*, 10-inch cable with M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-pin connector) (18 AWG)*, 10-inch cable with Packard Weatherpack male terminal - 12020827 (3-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT04-2P-E005 (2-pin connector) (18 AWG), 3-inch cable with Packard 2P Tower connector - 12015792 (2-pin connector) (18 AWG), 2.75-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (18 AWG), 4-inch cable with Packard 2P shroud connector - 12010973 (2-pin connector) (16 AWG), 5.5-inch cable with ITT Cannon 2P Sure-Seal circular connector - SS2R-120-1804-000 (2-pin connector) (18 AWG), 8.5-inch cable with ITT Cannon 3P Sure-Seal circular connector - SS3R-120-8551-001 (3-pin connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT06-3S-EPO6 (3-socket connector) (16 AWG)*, 10-inch cable - Vacuum Impregnated with Deutsch DT04-3P-E005 (3-pin connector) (16 AWG)*, 4.5-inch cable with blade terminals 6,3 mm x 0,8 mm (16 AWG)*, 10-inch cable with Metripack 2-pin shroud connector 153000027 (18 AWG), 6-inch cable with Amp Super Seal 1.5 - 282104-1 (2-pin connector) (18 AWG)*, 10-inch cable with Deutsch DT06-2S-CE06 (2-socket connector) (18 AWG), Deutsch DT04-2P-E005 (2-pin connector), 10-inch cable with Metripack 150 Delphi 12129615 (3-pin connector) (18 AWG)*, 6-inch cable with AMP Super Seal 1.5 - 282080-1 (2-pin connector) (18 AWG), 10-inch cable with AMP 2,5 mm system series connector 1-967402-1 (18 AWG)*, 4.5-inch cable with Packard shroud connector 12015792 (2-pin connector) (18 AWG), 10-inch cable with Metripack 150 Delphi 12052641 (2-pin connector) (18 AWG), 8.5-inch cable with Deutsch plug HD 16-3 96S (3-pin connector) (16 AWG)
Mechanical life	1 million	1 million

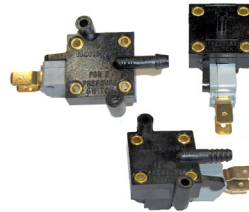
*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNC/SPNO) by making suitable connections. Refer to wiring diagram.



Vacuum Switches

5000 Series

Type	direct action blade contact
Set point range	factory set: 1.1 in-Hg to 22 in-Hg
Vacuum	1.1 in-Hg to 22 in-Hg
Contacts	composite-gold plate
Operating pressure	30 in-Hg max.
Burst pressure	150 psi
Port	1/8-27 NPT male thread standard (others, including metric, available)
Electrical termination	#8-32 screws, 1/4 in blade, 280 series metri-pack
Mechanical life	800K



Pressure Switch and Sensor

PBN1 Series

PBN3 Series

	PBN1 Series	PBN3 Series
Type	direct action blade contact	snap-action switch
Set point range	0.018 psi to 1.8 psi	0.036 psi to 40.0 psi
Contacts	gold inlay	silver
Operating pressure	6 psi for 0.018 psi to 0.108 psi; 12 psi for 0.144 psi to 1.8 psi	12 psi for 0.036 psi to 2.71 psi; 60 psi for 3.0 psi to 40.0 psi
Proof pressure	8 psi for 0.018 psi to 0.108 psi; 15 psi for 0.144 psi to 1.8 psi	15 psi for 0.036 psi to 2.71 psi; 100 psi for 3.0 psi to 40.0 psi
Burst pressure	30 psi	60 psi for 0.036 psi to 2.71 psi; 150 psi for 3.0 psi to 40.0 psi
Port	5 mm smooth perpendicular; 5 mm barbed radial	5 mm smooth perpendicular; 5 mm barbed radial
Electrical termination	4,8 mm x 0,5 mm blades	6,3 mm x 0,8 mm blades
Mechanical life	up to 20M cycles, depending on load	up to 5M cycles, depending on load

HE Series.

HP Series.

Features: Life cycle rating up to 2 million (HP Series) or 1 million (HE Series) • Operating temperature range -40 °C to 120 °C [-40 °F to 248 °F] (HE Series) or -40 °C to 85°C [-40 °F to 185 °F] (HP Series) • Proof pressure 10,000 psi (Base Style A), 6,500 psi (Base Style B) • Burst pressure 20,000 psi (Base Style A), 9,000 psi (Base Style B) • Hysteresis option (HP Series) • Variety of pressure ports and electrical terminations • Pressure switching set point range factory set 100 psi to 4500 psi • Switching point accuracy up to ±2 %

Benefits: Extends equipment uptime and life, provides resistance to corrosion, reduces service costs, and protects equipment and operators. Configurability simplifies the design-in process, eliminates tooling costs, and reduces manufacturing labor costs. Durability allows for use in many tough applications. Potential applications include agricultural machinery, boilers, CNC machines, compressors, food & beverage equipment, fracking equipment, generators, HVAC/R equipment, heavy duty construction machinery, heavy duty trucks, lawn & garden, marine vessels, material handling machinery, mud pumps, pneumatic equipment, presses and punches, pressure washers, railway, trash compactors, water pumps, and water jet cutting equipment.

VACUUM SWITCHES

5000 Series.

Features: Stands up to extended-duty applications • Factory set • Fluorosilicone rubber diaphragm for compatibility with a wide variety of fluids • Various terminations, including a Metri-pack connect that forms a tight seal when connected.

Benefits: Design benefits include durable construction, compact size, and enhanced set-point integrity. Applications include engine air cleaners, fuel filters, generators/compressors, and more.

PRESSURE SWITCH AND SENSOR

PBN1 Series.

Features: Sensitive to ultra-low pressures • Gage, vacuum, and differential measurement • Miniature size • Lightweight • Fast response • Rugged housings • High shock and vibration resistant versions available • Adjustable and non-adjustable models • For sale in EMEA only

Benefits: High sensitivity and flexible design options make the PBN1 suitable for potential applications such as filter restriction, HVAC, vacuum control, liquid level sensing, pick and place machinery, pump control, and counters.

PBN3 Series.

Features: High current switching capacity • Sensitive to low gage pressures • Miniature size • Lightweight • Fast response • Rugged housings • Adjustable and non-adjustable models • For sale in EMEA only

Benefits: Designed to respond to positive air pressure or activated by non-corrosive liquids at low pressures. The PBN3's high switch rating makes the switch suitable for applications such as counting, edge detection, liquid level sensing, traffic counters, motor control, and pressure control in medical equipment.

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

WARNING

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

In no event shall Honeywell be liable for consequential, special, or indirect damages.

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

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