

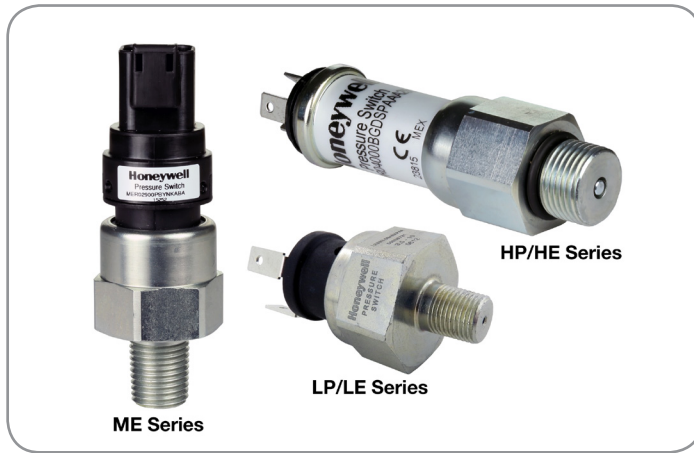
Honeywell Pressure Switches

HP, HE, ME, LP, LE Series

50094081

Issue 4

Datasheet



DESCRIPTION

The Honeywell Pressure Switch portfolio consists of:

- High Pressure Premium, HP Series
- High Pressure Economy, HE Series
- Medium Pressure Economy, ME Series
- Low Pressure Premium, LP Series
- Low Pressure Economy, LE Series

These pressure switches are durable, reliable electromechanical gauge pressure on/off switches that are available with either single pole single throw (SPST) normally open or normally closed circuitry, or single pole double throw (SPDT) circuitry. Their high proof pressure and burst pressure ratings allow for use in many rugged applications that require the making or breaking of an electrical connection in response to a pressure change of the system media. The media (gas or liquid) pressure is applied via the port of the switch to a diaphragm or sealed piston. A precompressed spring on the other side of the sealed piston or diaphragm controls the set-point pressure. If the force resulting from the pressure is greater than the load on the spring, the electrical contacts within the switch will change state. If the contacts are normally open when no pressure is applied, they close on increasing pressure when the set point is reached. On decreasing pressure, the contacts will open again at a pressure somewhat less than the set switching point. The difference between the activation point on increasing pressure and the deactivation point on decreasing pressure is called hysteresis. The set point pressure for the switch can be configured such that the switch will actuate on increasing or decreasing system pressure.

DIFFERENTIATION

- Pressure port gauge snubber suppresses pressure spikes²
- IP67 sealing provides enhanced durability in harsh environmental and washing applications¹
- Plated steel, brass or stainless steel options³

FEATURES

- Pressure switching set point range: see page 2
- Proof pressure: see page 2
- Burst pressure: see page 2
- Life cycle rating up to 2 million
- IP67 sealing rating⁴
- Operating temperature range -40 °C to 120 °C [-40 °F to 248 °F]
- Hysteresis option⁵
- Variety of pressure ports and electrical terminations
- Switching point accuracy up to $\pm 2\%$

VALUE TO CUSTOMERS

- Designed to provide durability and reliability of the end product due to up to two million life cycle rating and IP67 rating which provides resistance to corrosion and extends equipment life¹
- Can expedite the customers' design and production cycle due to ability to receive samples in two weeks and production units in four weeks, a global supply chain which assures availability throughout the development cycle, multiple ports and electrical terminations which simplify integration, and global application expertise which allows customers with a global footprint to obtain regional support
- Can reduce the customers' total costs due to standard connections which eliminate tooling costs, long product life which reduces service costs, and expedited design and production cycle which lowers manufacturing labor costs

POTENTIAL APPLICATIONS

- **Transportation:** Agricultural machinery, heavy duty construction machinery, heavy duty trucks, lawn and garden machinery, marine vessels, material handling machinery, railway
- **Industrial:** CNC machines, compressors/boilers, fracking equipment, food and beverage equipment, generators, HVAC/R equipment, mud pumps, pneumatic equipment, presses/punches, pressure washers, trash compactors, water jet cutting machines, water pumps

PORTFOLIO

Honeywell also offers the [1000 Series Hydraulic Brake Pressure Switch](#) and the [PBN1 Series and PBN3 Series Pressure Sensor](#).

CONFIGURATOR

Honeywell's [online pressure switch configurator](#) allows customers to design their own parts and download customized datasheets.

¹ HP, HE, LP, LE Series

² HP, HE Series

³ ME, LP, LE Series

⁴ HP, HE, LP, LE, ME Series

⁵ HP, HE, LP Series

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

Table 1. Specifications

Characteristic	HP Series	HE Series	ME Series	LP Series	LE Series
Product length (connector version AMP Super Seal)	see pages 4 and 5	see page 4	see page 6	see page 7	see page 7
Product length (blade)	see pages 4 and 5	see page 4	see page 6	see page 7	see page 7
Product length (wire out)	see pages 4 and 5	see page 4	see page 6	see page 7	see page 7
Hex size	27 mm	27 mm	27 mm	27 mm	27 mm
Ease of installation	box spanner	box spanner	box spanner	box spanner	box spanner
Snap-action switch	yes	yes	no	yes	no
Set point ¹ range	100 psi to 4500 psi	150 psi to 4500 psi	25 psi to 350 psi	3.5 psi to 150 psi	3.5 psi to 150 psi
Set point ranges	6 (Base Style A) 7 (Base Style B)	6	4	4	4
Set point accuracy @ 25 °C (before test)	100 psi to 150 psi (±10 %); 150 psi to 500 psi (±6 %); 501 psi to 4000 psi (±3.5 %); 4000 psi to 4500 psi (±2 %)	150 psi to 1000 psi (±14 %); 1000 psi to 2000 psi (±12 %); 2000 psi to 4000 psi (±11 %); >4000 psi (±10 %)	25 psi to 50 psi (±3 psi); >50 psi to 100 psi (±7 psi); >100 psi to 150 psi (±10 psi); >150 psi to 250 psi (±13 psi); >250 psi to 350 psi (±16 psi)	3.5 psi to 10 psi (±1 psi); >10 psi to 50 psi (±3 psi); >50 psi to 100 psi (±7 psi); >100 psi to 150 psi (±10 psi)	
Average deadband max.	n/a	n/a	25 psi to 50 psi (20 psi); >50 psi to 100 psi (30 psi); >100 psi to 150 psi (40 psi); >150 psi to 250 psi (50 psi); >250 psi to 350 psi (60 psi)	n/a	3.5 psi to 10 psi (±2.8 psi); >10 psi to 50 psi (±14 psi); >50 psi to 100 psi (±38 psi); >100 psi to 150 psi (±40 psi)
Operating pressure ²	5,000 psi max.	5,000 psi max.	500 psi max.	250 psi max.	250 psi max.
Proof pressure ³	10,000 psi (Base Style A) 6,500 psi (Base Style B)	10,000 psi	4,000 psi	500 psi	500 psi
Hysteresis	5 % to 55 % (based on set point range)	3 % to 65 % (based on set point range)	n/a	5 % to 55 % (based on set point range)	n/a
Burst pressure ⁴	20,000 psi (Base Style A) 9,000 psi (Base Style B)	20,000 psi	8,000 psi	1250 psi	1250 psi
Current rating (resistive)	5 A at 250 Vac 5 A at 24 Vdc	5 A at 250 Vac 3 A at 24 Vdc	7.5 mA to 5 A, 24 Vdc and 250 Vac		
Current rating (inductive)	5 A at 115 Vac (SX rating) 3 A at 28 Vdc	n/a	n/a	1 A at 28 Vdc	n/a
Temperature rating	-40 °C to 120 °C [-40 °F to 248 °F]	-40 °C to 85 °C [-40 °F to 185 °F]	-40 °C to 120 °C [-40 °F to 248 °F]		
Media connection	multiple ports available	multiple ports available	multiple ports available		
Pressure ports	A = 1/4-18 NPT B = 1/8-27 NPT C = 1/2-20 UNF E = M12 × 1.5 F = M14 × 1.5 G = 9/16-18 UNF H = 3/4-16 UNF K = M18 × 1.5 M = 7/16-20 UNF N = 7/8-14 UNF P = 1/2-14 NPT T = M10 × 1.0 Y = G1/4 BSPP (see note 8)	C = 1/2-20 UNF F = M14 × 1.5 G = 9/16-18 UNF H = 3/4-16 UNF K = M18 × 1.5 N = 7/8-14 UNF	A = 1/4-18 NPT B = 1/8-27 NPT C = 1/2-20 UNF D = 1/8-27 PTF E = M12 × 1.5 F = M14 × 1.5 G = 9/16-18 UNF H = 3/4-16 UNF J = G1/8 BSPP M = 7/16-20 UNF R = R1/8 BSPT T = M10 × 1.0 V = R1/2 BSPT Y = G1/4 BSPP Z = R1/4 BSPT		

⁸Port 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.
 Switches less than 150 psi will only use Base Style B.

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

Characteristic	HP Series	HE Series	ME Series	LP Series	LE Series
Termination	AA = Spade Terminals BA = Screw Terminals CA = Deutsch DT04-3P-E005 (3-Pin Connector) DA = Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) EA = 10-inch Cable, 18 AWG (Wire Out, No Connector) FA = 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* GA = 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)* HA = 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG)* JA = 10-inch Cable w/Din43650-C (3-Pin Connector) (18 AWG)* KA = 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-Pin Connector) (18 AWG)* LA = 10-inch Cable w/Packard Weatherpack Male Terminal - 12020827 (3-Pin Connector) (18 AWG)* MA = 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG) NA = 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG) PA = 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG) RA = 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG) SA = 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SS2R-120-1804-000 (2-Pin Connector) (18 AWG) TA = 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SS3R-120-8551-001 (3-Pin Connector) (16 AWG)* UA = 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EP06 (3-Socket Connector) (16 AWG)* VA = 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* WA = 4.5-inch Cable w/Blade Terminals 6,3 mm x 0,8 mm (16 AWG)* XA = 10-inch Cable w/ Metripack 2-Pin Shroud Connector 153000027 (18 AWG) YA = 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)* ZA = 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG) AB = Deutsch DT04-2P-E005 (2-Pin Connector) BB = 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)* CB = 6-inch Cable w/ AMP Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG) DB = 10-inch Cable w/AMP 2,5 mm System Series Connector 1-967402-1 (18 AWG)* EB = 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG) FB = 10-inch Cable w/Metripack 150 Delphi 12052641 (2-Pin Connector) (18 AWG) GB = 8.5-inch Cable w/Deutsch Plug HD 16-3 96S (3-Pin Connector) (16 AWG)				
Circuit forms ⁵	SPDT, SPST - NO/NC		SPDT, SPST - NO/NC		
Life	2 million (Base Style A) 1 million (Base Style B)	1 million	1 million	2 million	1 million
Agency approvals (special use switches)	UL pending	UL pending	UL pending	UL pending	UL pending
Agency approvals (other)	CE	CE	CE pending	CE pending	CE pending
Field adjustability ⁶	no	no	yes	yes	yes
Spike dampening	yes	yes	no	no	no
Ingress protection ⁷	IP67 (Base Style A) IP69K (Base Style B)	IP67	IP67	IP67	IP67
Vibration resistance	swept sine: 10 Hz to 2000 Hz at 15 g, 20 min/sweep; 8 hours in each axis random: 5 Hz to 2000 Hz, 8 hours/axis; 14,88 g-RMS, each axis				
Shock resistance	500 m/sec ² , 11 mSEC, 100 shocks / axis		500 m/sec ² , 11 mSEC		
Wetted part (diaphragm)	n/a		Kapton® (Teflon® coated)		
Wetted part (piston)	nitrile o-ring, steel piston		-	-	nitrile or EPDM o-ring
Weight	133 g [4.7 oz] (Base Style A) 178 g [6.28 oz] (Base Style B)		53 g [1.9 oz]	58 g [2.0 oz]	53 g [1.9 oz]
Contacts	silver / gold inlay	silver	gold plated	gold plated	gold plated
Product finish	zinc plating	zinc plating	zinc plating	zinc plating	zinc plating

¹Set point: Point at which switch actuates or de-actuates

²Operating pressure: Maximum normal system operating pressure (above set point)

³Proof pressure: Maximum pressure that the switch can handle while it maintains set point accuracy. Intermittent spikes to this level are acceptable.

⁴Burst pressure: Point of complete switch failure

⁵SPST: Single pole, single throw. SPDT: Single pole, double throw. NO: Normally open. NC: Normally closed.

⁶Field adjustability only available with AA, BA, CA, and DA (SPST only) terminations.

⁷IP00 for AA and BA terminations.

⁸Port 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.

Switches less than 150 psi will only use Base Style B.

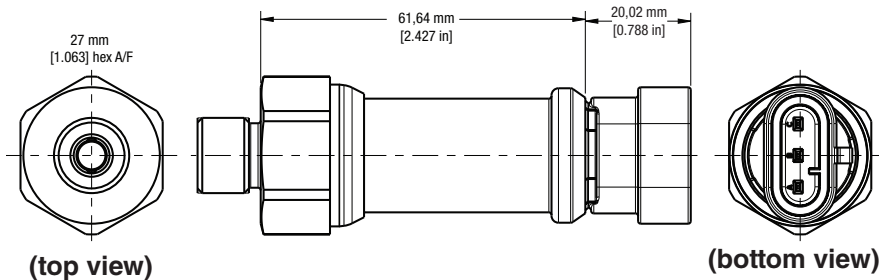
*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNC/SPNO) by making suitable connections. Refer to wiring diagram.

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

DIMENSIONS - HIGH PRESSURE: HP SERIES (BASE STYLE A), HE SERIES

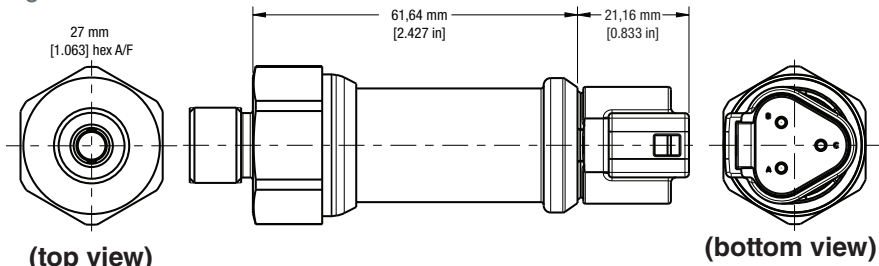
Base Style A key specifications • Life: 2 million (HP), 1 million (HE); Burst pressure: 20,000 psi

Figure 1. AMP Superseal 1.5



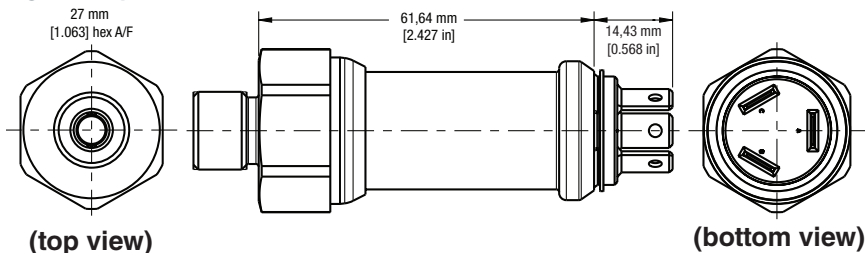
(top view)
Female Connector Part Number (included): C-282105
Male Mating Connector (customer provided): C-282087
IP Rating: IP67

Figure 2. Deutsch



(top view)
Female Connector Part Number (included): DT04-3P
Male Mating Connector (customer provided): DT06-3S
IP Rating: IP67

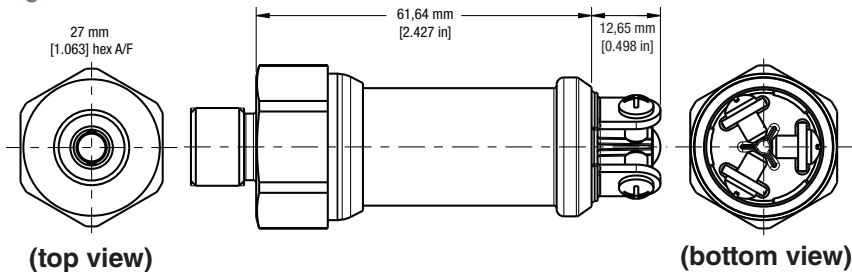
Figure 3. Spade Terminal



(top view)

(bottom view)

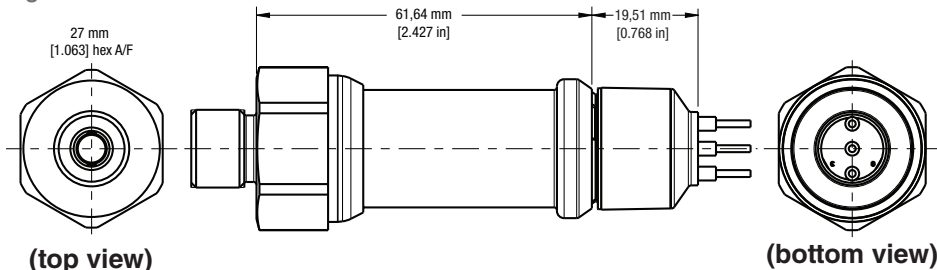
Figure 4. Screw Terminal



(top view)

(bottom view)

Figure 5. Cable



(top view)

(bottom view)

IP Rating: IP67

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

DIMENSIONS - HIGH PRESSURE: HP SERIES (BASE STYLE B)

Base Style B key specifications • Life: 1 million; Burst pressure: 9,000 psi

Figure 6. HP Series Smaller Port

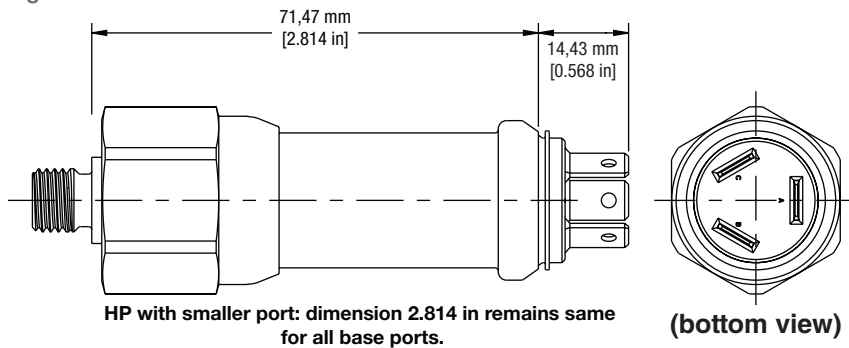


Figure 7. HP Series Pressure Port Dimensions

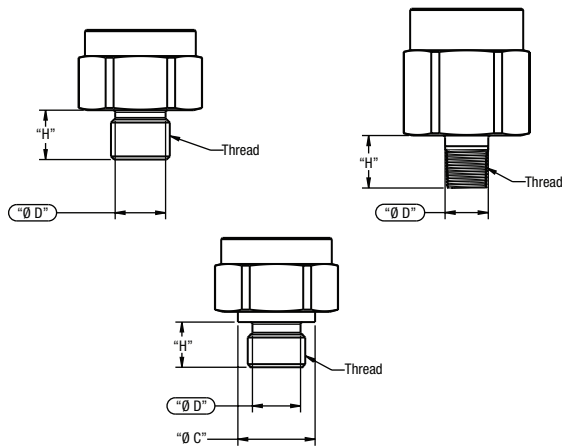


Table 2. HP/HE Series Pressure Port Diameters and Heights

Nomenclature Code	Thread	Diameter "ØD"	Diameter "ØC"	Height "H"
M	7/16-20 UNF	9,25 mm [0.364 in]	–	11 mm [0.433 in]
C¹	1/2-20 UNF	10,85 mm [0.427 in]	–	11 mm [0.433 in]
G²	9/16-18 UNF	12,24 mm [0.482 in]	–	12 mm [0.472 in]
H	3/4-16 UNF	16,74 mm [0.66 in]	–	14 mm [0.551 in]
N	7/8-14 UNF	19,6 mm [0.773 in]	–	16 mm [0.630 in]
T	M10 x 1.0	9,25 mm [0.364 in]	13,79 mm [0.543 in]	11 mm [0.433 in]
E	M12 x 1.5	10,85 mm [0.427 in]	16,79 mm [0.661 in]	11 mm [0.433 in]
F²	M14 x 1.5	12,24 mm [0.482 in]	18,8 mm [0.74 in]	12 mm [0.472 in]
K	M18 x 1.5	16,74 mm [0.66 in]	23,8 mm [0.937 in]	14 mm [0.551 in]
B	1/8-27 NPT	10,29 mm [0.405 in]	–	12,497 mm [0.492 in]
A	1/4-18 NPT	13,72 mm [0.540 in]	–	17,63 mm [0.694 in]
P	1/2-14 NPT	21,34 mm [0.840 in]	–	22,38 mm [0.881 in]

¹Port Style C: Switches less than 975 psi will use Base Style B; switches greater than 975 psi will use Base Style A.

²Port Styles F and G: Switches less than 350 psi will use Base Style B; switches greater than 350 psi will use Base Style A.

Switches less than 150 psi will use only Base Style B.

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

DIMENSIONS - MEDIUM PRESSURE: ME SERIES

Figure 8. AMP Superseal 1.5

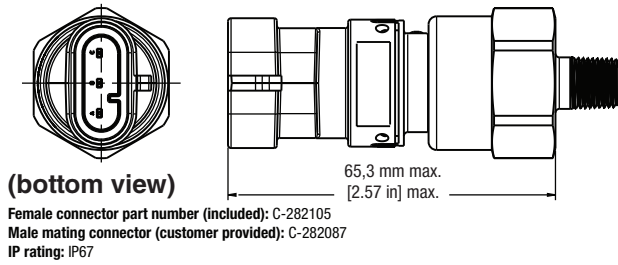


Figure 9. Deutsch 3-pin

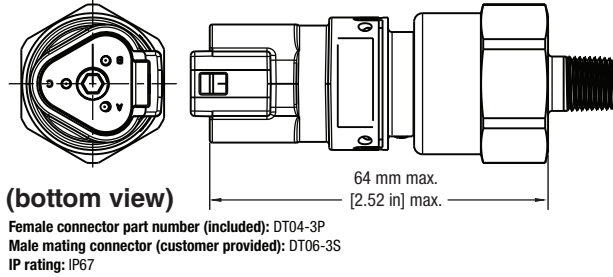


Figure 10. Deutsch 2-pin

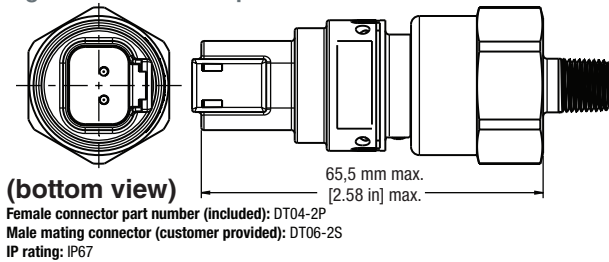


Figure 11. Wire out

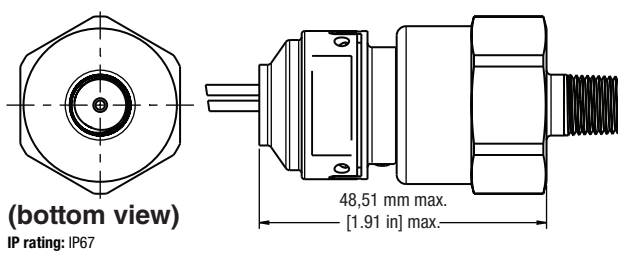


Figure 12. Blade terminal

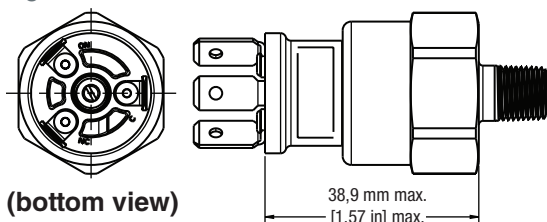


Figure 13. Screw terminal

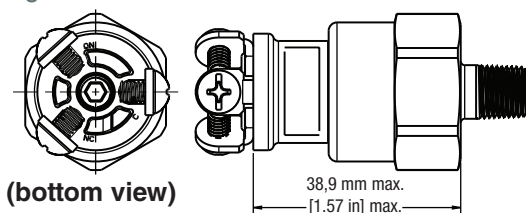


Figure 14. ME Series Pressure Port Dimensions

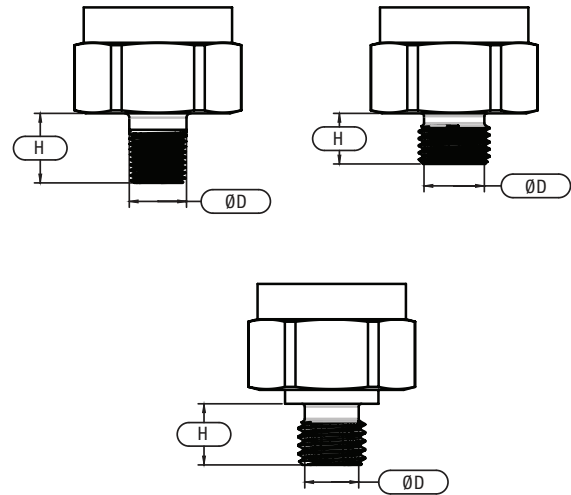


Table 3. ME Series Pressure Port Diameters and Heights

Port	Diameter "ØD"	Height "H"
R 1/2 BSPT	21,34 mm [0.840 in]	17,09 mm [0.673 in]
R 1/4 BSPT	13,46 mm [0.530 in]	13,74 mm [0.541 in]
R 1/8 BSPT	9,96 mm [0.392 in]	10,24 mm [0.403 in]
1/8-27 PTF	10,34 mm [0.407 in]	9,24 mm [0.364 in]
1/4-18 NPT	13,72 mm [0.540 in]	17,63 mm [0.694 in]
1/8-27 NPT	10,29 mm [0.405 in]	12,497 mm [0.492 in]
G 1/4 BSPP	11,1 mm [0.437 in]	11,20 mm [0.441 in]
G 1/8 BSPP	8,28 mm [0.326 in]	7,59 mm [0.299 in]
3/4-16 UNF	16,74 mm [0.659 in]	11,1 mm [0.437 in]
7/16-20 UNF	9,25 mm [0.364 in]	9,09 mm [0.358 in]
9/16-18 UNF	12,24 mm [0.482 in]	10,00 mm [0.394 in]
1/2-20 UNF	10,85 mm [0.427 in]	9,09 mm [0.358 in]
M14 × 1.5	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 × 1.5	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 × 1.0	8,41 mm [0.331 in]	8,51 mm [0.335 in]

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

DIMENSIONS - LOW PRESSURE: LP SERIES, LE SERIES

Figure 15. AMP Superseal 1.5

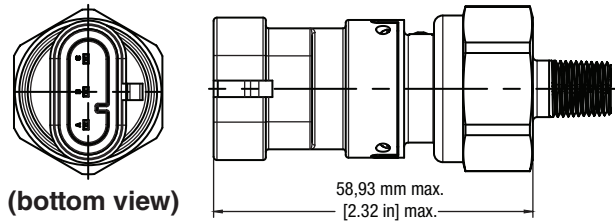


Figure 16. Deutsch 3-pin

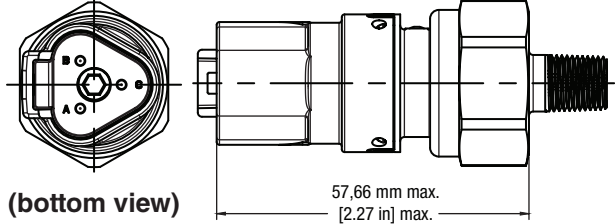


Figure 17. Deutsch 2-pin

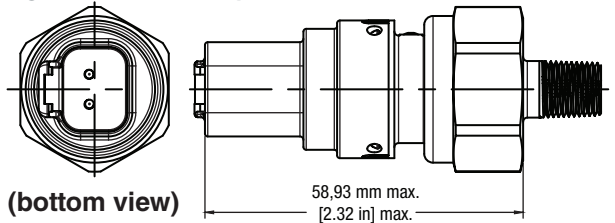


Figure 18. Wire out

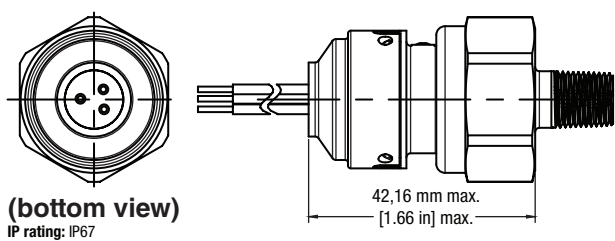


Figure 19. Spade terminal

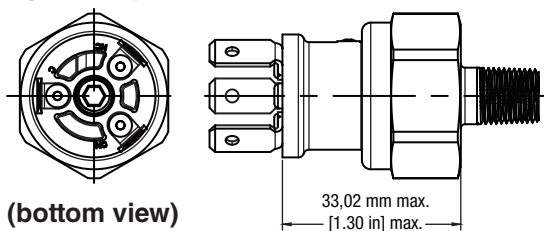


Figure 20. Screw terminal

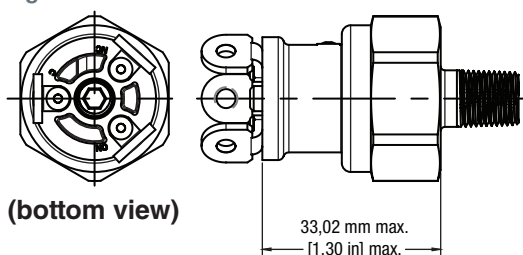


Figure 21. LP/LE Series Pressure Port Dimensions

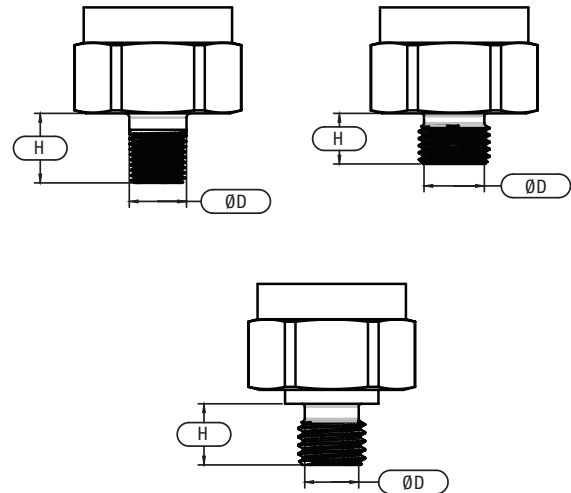


Table 4. LP/LE Series Pressure Port Diameters and Heights

Port	Diameter "ØD"	Height "H"
R 1/2 BSPT	21,34 mm [0.840 in]	17,09 mm [0.673 in]
R 1/4 BSPT	13,46 mm [0.530 in]	13,74 mm [0.541 in]
R 1/8 BSPT	9,96 mm [0.392 in]	10,24 mm [0.403 in]
1/8-27 PTF	10,34 mm [0.407 in]	9,24 mm [0.364 in]
1/4-18 NPT	13,72 mm [0.540 in]	17,63 mm [0.694 in]
1/8-27 NPT	10,29 mm [0.405 in]	12,497 mm [0.492 in]
G 1/4 BSPP	11,1 mm [0.437 in]	11,20 mm [0.441 in]
G 1/8 BSPP	8,28 mm [0.326 in]	7,59 mm [0.299 in]
3/4-16 UNF	16,74 mm [0.659 in]	11,1 mm [0.437 in]
7/16-20 UNF	9,25 mm [0.364 in]	9,09 mm [0.358 in]
9/16-18 UNF	12,24 mm [0.482 in]	10,00 mm [0.394 in]
1/2-20 UNF	10,85 mm [0.427 in]	9,09 mm [0.358 in]
M14 × 1.5	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 × 1.5	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 × 1.0	8,41 mm [0.331 in]	8,51 mm [0.335 in]

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

NOMENCLATURE: HIGH PRESSURE

For example, **HPR05500PFNSPAAA01** defines a high pressure switch, rising factory set, non-adjustable set point, 550 psi set point, psig, sealed gage pressure unit, M14 x 1.5 port type, SPST-NO silver contacts output, cold-rolled steel base, glycol-based fluid (EPDM) actuation/application, spade terminal connectors, standard switch, individually boxed units.

HP	R	05500	P	F	N	S	P	AA	A	01
Series	Set Point	Pressure Set Point	Pressure Unit	Port Type	Output	Base	Actuation/ Application	Connector Type	Options	Packaging Options
HP Series HE Series (100 psi to 4500 psi), High Pressure Switch	R Rising factory set, non-adjustable F Falling factory set, non-adjustable NOTE: Set point below 100 psi is available only with HP Series (Body Style B).	6.89 bar to 310.26 bar [100 psi to 4500 psi] NOTE: Pressure set point is always five digits. For bar, the set point value will be multiplied by 100 and entered in the listing. For example, 15.45 Bar is noted as 01545. This allows for 2 decimal places. For psi, the set point value will be multiplied by 10 and entered in the listing. For example, 245.5 psi is noted as 02455. This allows for 1 decimal place.	P psig, sealed gage B bar, sealed gage	A 1/4-18 NPT B 1/8-27 NPT C 1/2-20 UNF E M12 x 1.5 F M14 x 1.5 G 9/16-18 UNF H 3/4-16 UNF K M18 x 1.5 M 7/16-20 UNF N 7/8-14 UNF P 1/2-14 NPT T M10 x 1.0 Y G1/4 BSPP	N SPST-NO, silver contacts C SPST-NC, silver contacts D SPDT-NO/NC, silver contacts H NO, gold inlay contacts J NC, gold inlay contacts K SPDT(NO/NC), gold inlay contacts E NO, with 510 Ω/ 0.5 W & 160 Ω/ 0.5 W resistors F NC, with 3000 Ω/ 0.125 W resistor	S Cold-rolled steel	N Petroleum-based hydraulic fluid (Nitrile) P Glycol-based fluid (EPDM)	AA 1/4 in Spade Terminals* BA Screw Terminals* CA Deutsch DT04-3P-E005 (3-Pin Connector)* DA Amp Super Seal 1.5 - 282105-1 (3-Pin Connector)* EA 10-inch Cable, 18 AWG (Wire Out, No Connector) FA 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* GA 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)* HA 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG) JA 10-inch Cable w/ Dln43650-C (3-Pin Connector) (18 AWG)* KA 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harring P/N (3-Pin Connector) (18 AWG)* LA 10-inch Cable w/Packard Weatherpack Male Terminal - 12020827 (3-Pin Connector) (18 AWG)* MA 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG) NA 3-inch Cable w/Packard 2P Tower Connector - 12015742 (2-Pin Connector) (18 AWG) PA 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG) RA 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG) SA 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - S528-120-1804-000 (2-Pin Connector) (18 AWG) TA 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - S538-120-8551-001 (3-Pin Connector) (16 AWG)* UA 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EP06 (3-Socket Connector) (16 AWG)* VA 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* WA 4.5-inch Cable w/ 1/4 in Spade Terminals 6.3 mm x 0.8 mm (16 AWG) XA 10-inch Cable w/ Metripack 2-Pin Shroud Connector 15300002 (18 AWG) YA 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG) ZA 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG) BB 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG) CB 6-inch Cable w/AMP Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG) DB 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)* EB 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG) FB 10-inch Cable w/Metripack 150 Delphi 12052641 (2-Pin Connector) (18 AWG) GB 6.5-inch Cable w/Deutsch Plug HD 16-3 98S (3-Pin Connector) (16 AWG)*	A Standard switch B With 3 shrink sleeve C With shrink sleeve (plastic coating) D With shrink sleeve (acrylic coating) F 304,8 mm [12 in] total wire length G With conduit sleeve H With Vitra seal for port threads J #8-32 screw with external tooth lockwasher*** K 914,4 mm [36 in] total wire length L 304,8 mm [12 in] total wire length with acrylic sleeve M 914,4 mm [36 in] total wire length with acrylic sleeve	01 Individually boxed units* 02 Individually boxed units** 15 25 individual boxes packed in bulk packaging* 16 25 individual boxes packed in bulk packaging** 20 50 individual boxes packed in bulk packaging* 21 50 individual boxes packed in bulk packaging** 25 25 units in bulk packaging* 26 25 units in bulk packaging** 50 50 individual parts in bulk packaging*

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.
Switches less than 150 psi will use only Base Style B.

*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.

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

NOMENCLATURE: MEDIUM PRESSURE

For example, **MERO1500PFPVKAAA01** defines a low pressure switch, rising factory set, non-adjustable set point, 55 psi set point, psig, sealed gage pressure unit, M14 x 1.5 port type, SPST-NO gold-plated contacts output, stainless steel base, Kapton® diaphragm (Teflon® coated), Nitrile O-ring actuation/application, spade terminal connectors, standard switch, individually boxed units.

ME	R	01500	P	F	P	V	K	AA	A	01
Series	Set Point	Pressure Set Point	Pressure Unit	Port Type	Output	Base	Actuation/ Application	Connector Type	Options	Packaging Options
ME Series Medium Pressure Switch	R Rising factory set, non-adjustable	1,72 bar to 24.13 bar (25 psi to 350 psi)	P psig, sealed gage	A 1/4-18 NPT	P SPST-NO, gold-plated contacts	N Cold-rolled steel	K Kapton diaphragm (Teflon coated), Nitrile O-ring ¹	AA 1/4 in Spade Terminals	A Standard switch	01 Individually boxed units
	F Falling factory set, non-adjustable	NOTE: Pressure set point is always five digits.	B bar, sealed gage	B 1/8-27 NPT	M SPST-NC, gold-plated contacts	D Cold-rolled steel, bigger orifice	H Kapton diaphragm (Teflon coated), EPDM O-ring ²	BA Screw Terminals	B With 3 shrink sleeve	15 25 individual boxes packed in bulk packaging
	T Rising, field adjustable*	For bar, the set point value will be multiplied by 100 and entered in the listing. For example, 15.45 bar is noted as 01545. This allows for 2 decimal places.	M bar, true gage	C 1/2-20 UNF	Y SPDT-NO/NC, gold-plated contacts	E Brass, bigger orifice	¹ Air, Petroleum-based hydraulic fluid, engine oil ² Glycol-based fluid	CA Deutsch DT04-3P-E005 (3-Pin Connector)	C With shrink sleeve (plastic coating)	20 150 units in bulk packaging
	C Falling, field adjustable*	For psi, the set point value will be multiplied by 10 and entered in the listing. For example, 245.5 psi is noted as 02455. This allows for 1 decimal place.	T psig, true gage	D 1/8-27 PTF	E NO, with 510 Ω/ 0.5 W & 160 Ω/ 0.5 W resistors	F Stainless steel, bigger orifice	Bigger orifice - Ø 0.213	DA Amp Super Seal 1.5 - 282105-1 (3-Pin Connector)	D With shrink sleeve (acrylic coating)	
	<small>* Field adjustable option is only available for: 1. Blade and screw terminations (SPDT, SPNO, SPNC) 2. Deutsch DT04-3P (SPDT, SPNO, SPNC) 3. Amp Superseal 1.5 (3-pin) (SPNO & SPNC)</small>		G psig, sealed gage with epoxy	E M12 x 1.5	F NC, with 3000 Ω/ 0.125 W resistor			EA 10-inch Cable, 18 AWG (Wire Out, No Connector)	E With 1/8 W resistor between terminals	
			H bar, sealed gage with epoxy	F M14 x 1.5				FA 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)*	F 304.8 mm [12 in] total wire length	
			<small>Blade and screw electrical terminations are available with only the true gage option.</small>	G 9/16-18 UNF				GA 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)*	G With conduit sleeve	
			<small>True gage option is available only up to 20 psig set point for integral connectors and wire out electrical terminations.</small>	H 3/4-16 UNF				HA 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG)*	H With port thread protective cap for LPS	
				J G1/8 BSPP				JA 10-inch Cable w/ Dm43850-C (3-Pin Connector) (18 AWG)*	J #8-32 screw with external tooth lockwasher	
				M 7/16-20 UNF				KA 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-Pin Connector) (18 AWG)*	K 914.4 mm [36 in] total wire length	
				R R1/8 BSPT				LA 10-inch Cable w/ Packard Weatherack Male Terminal - 12020827 (3-Pin Connector) (18 AWG)*	R With port neck O-ring for LPS	
				T M10 x 1.0				MA 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG)	*** For screw terminal option only	
				V R1/2 BSPT				NA 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG)		
				Y G1/4 BSPP				PA 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG)		
				Z R1/4 BSPT				RA 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG)		
								SA 5.5-inch Cable w/TT Cannon 2P Sure-Seal Circular Connector - SSSR-120-1804-000 (2-Pin Connector) (18 AWG)		
								TA 8.5-inch Cable w/TT Cannon 3P Sure-Seal Circular Connector - SSSR-120-8551-001 (3-Pin Connector) (16 AWG)*		
								UA 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EP06 (3-Socket Connector) (16 AWG)*		
								VA 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)*		
								WA 4.5-inch Cable w/ 1/4 in Spade Terminals 6.3 mm x 0.8 mm (16 AWG)*		
								XA 10-inch Cable w/Metripack 2-Pin Shroud Connector 153000287 (18 AWG)		
								YA 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)*		
								ZA 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG)		
								AB Deutsch DT04-2P-E005 (2-Pin Connector)		
								BB 10-inch Cable w/Metripack 150 Delphi 12128615 (3-Pin Connector) (18 AWG)*		
								CB 6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG)		
							DB 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)*			
							EB 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG)			
							FB 10-inch Cable w/Metripack 150 Delphi 12052641 (2-Pin Connector) (18 AWG)			
							GB 8.5-inch Cable w/Deutsch Plug HD 16-3 96S (3-Pin Connector) (16 AWG)			

*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.

Honeywell Pressure Switches, HP, HE, ME, LP, LE Series

NOMENCLATURE: LOW PRESSURE

For example, **LPR00550PPFVKA01** defines a low pressure switch, rising factory set, non-adjustable set point, 55 psi set point, psig, sealed gage pressure unit, M14 x 1.5 port type, SPST-NO gold-plated contacts output, stainless steel base, Kapton® diaphragm (Teflon® coated), Nitrile O-ring actuation/application, spade terminal connectors, standard switch, individually boxed units.

LP	R	00550	P	F	P	V	K	AA	A	01
Series	Set Point	Pressure Set Point	Pressure Unit	Port Type	Output	Base	Actuation/ Application	Connector Type	Options	Packaging Options
LP Series, LE Series Low Pressure Switch	R Rising factory set, non-adjustable F Falling factory set, non-adjustable T Rising, field adjustable* C Falling, field adjustable*	0.24 bar to 10.34 bar (3.5 psi to 150 psi) NOTE: Pressure set point is always five digits. For bar, the set point value will be multiplied by 100 and entered in the listing. For example, 15.45 Bar is noted as 01545. This allows for 2 decimal places. For psi, the set point value will be multiplied by 10 and entered in the listing. For example, 245.5 psi is noted as 02455. This allows for 1 decimal place.	P psig, sealed gage B bar, sealed gage M bar, true gage T psig, true gage G psig, sealed gage with epoxy H bar, sealed gage with epoxy	A 1/4-18 NPT B 1/8-27 NPT C 1/2-20 UNF D 1/8-27 PTF E M12 x 1.5 F M14 x 1.5 G 9/16-18 UNF H 3/4-16 UNF J G1/8 BSPP M 7/16-20 UNF R R1/8 BSPT T M10 x 1.0 V R1/2 BSPT Y G1/4 BSPP Z R1/4 BSPT	P SPST-NO, gold-plated contacts M SPST-NC, gold-plated contacts Y SPDT-NO/NC, gold-plated contacts E NO, with 510 Ω/ 1 W & 160 Ω/ 1 W resistors F NC, with 3000 Ω/ 0.125 W resistor	B Brass N Cold-rolled steel V Stainless steel D Cold-rolled steel, bigger orifice E Brass, bigger orifice F Stainless steel, bigger orifice Bigger orifice - Ø 0.213	K Kapton diaphragm (Teflon coated), Nitrile O-ring ¹ H Kapton diaphragm (Teflon coated), EPDM O-ring ² T Tefzel diaphragm, Nitrile O-ring ³ U Tefzel diaphragm, EPDM O-ring ³	AA 1/4 In Spade Terminals BA Screw Terminals CA Deutsch DT04-3P-E005 (3-Pin Connector) DA Amp Super Seal 1.5 - 282105-1 (3-Pin Connector)** EA 10-inch Cable, 18 AWG (Wire Out, No Connector)* FA 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* GA 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)* HA 10-inch Cable w/Metripack 280 Delphi 153000287 (2-Pin Connector) (18 AWG)* JA 10-inch Cable w/DIN43650-C (3-Pin Connector) (18 AWG)* KA 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-Pin Connector) (18 AWG)* LA 10-inch Cable w/Packard Weatherpack Male Terminal - 12020827 (2-Pin Connector) (18 AWG)* MA 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG) NA 3-inch Cable w/Packard 2P Tower Connector - 12015732 (2-Pin Connector) (18 AWG) PA 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG) RA 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG) SA 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SSSR-120-1804-000 (2-Pin Connector) (18 AWG) TA 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SSSR-120-8651-001 (3-Pin Connector) (16 AWG) UA 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EP06 (3-socket Connector) (16 AWG)* VA 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)* WA 4.5-inch Cable w/ 1/4 In Spade Terminals 6.3 mm x 0.8 mm (16 AWG)* XA 10-inch Cable w/Metripack 2-Pin Shroud Connector 153000287 (18 AWG) YA 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)* ZA 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG) AB Deutsch DT04-2P-E005 (2-Pin Connector) BB 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)* CB 6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG) DB 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)* EB 4.5-inch Cable w/Packard Shroud Connector 12015732 (2-Pin Connector) (18 AWG) FB 10-inch Cable w/Metripack 150 Delphi 12052641 (2-Pin Connector) (18 AWG) GB 8.5-inch Cable w/Deutsch Plug HD 16-3 96S (3-Pin Connector) (16 AWG)	A Standard switch B With 3 shrink sleeve C With shrink sleeve (plastic coating) D With shrink sleeve (acrylic coating) F 304.8 mm [12 in] total wire length G With conduit sleeve K 914.4 mm [36 in] total wire length L 304.8 mm [12 in] total wire length with acrylic sleeve M 914.4 mm [36 in] total wire length with acrylic sleeve *** For screw terminal option only	01 Individually boxed units 15 25 individual boxes packed in bulk packaging 20 150 units in bulk packaging

*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNO/SPNC) by making suitable connections. Refer to wiring diagram.
 **For electrical termination with SPST option, only SPNO configuration is available. SPNC configuration cannot be provided.

ADDITIONAL MATERIALS

The following associated literature is available at sensing.honeywell.com:

- Product range guide
- Product application-specific information
 - Application Note: Honeywell Pressure Switches
 - Sensors and switches in front loaders
 - Sensors and switches in mobile cranes
 - Sensors and switches in oil rig applications
 - Industrial product line card

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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 product sheet is for reference only. Do not use this document as a product installation guide.
- 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.

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