

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.

¹ HP, HE, LP, LE Series

² HP, HE Series

³ ME, LP, LE Series

DIFFERENTIATION

- Pressure port gauge snubber suppresses pressure spikes²
- IP67 sealing provides enhanced durability in harsh environmental and washing applications¹²
- 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

⁴ HP, HE, LP, LE, ME Series

⁵ HP, HE, LP Series

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

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.

Sensing and Productivity Solutions

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		

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Pressure ports	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 (see note 8)	C = 1/2-20 UNF F = M14 x 1.5 G = 9/16-18 UNF H = 3/4-16 UNF K = M18 x 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 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
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*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 only use Base Style B.

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)		

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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.

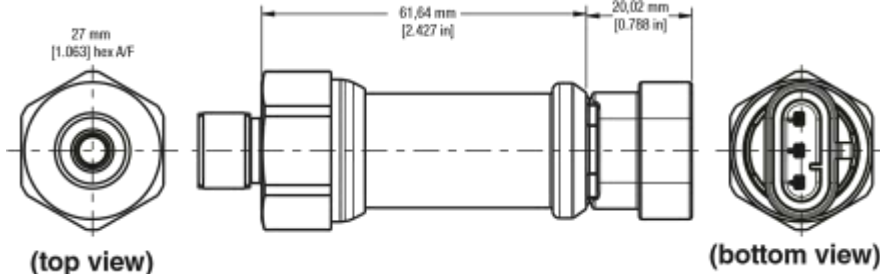
Port Styles A, B, E, M, P, T, and Y will use Base Style B. Switches less than 150 psi will only use Base Style B.

*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.

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

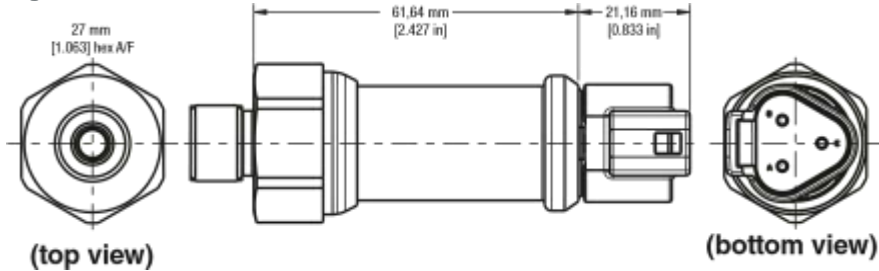
Figure 1. AMP Superseal 1.5



Female Connector Part Number (included): C-282105

Male Mating Connector (customer provided): C-282087 **IP Rating:** IP67

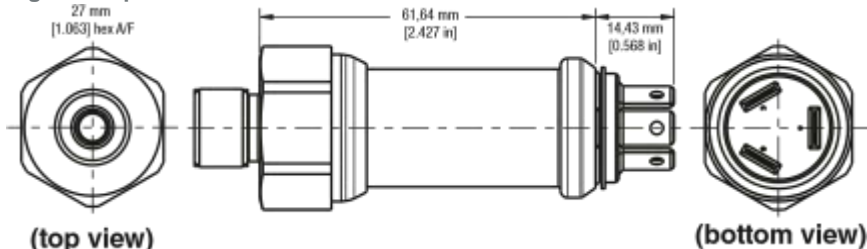
Figure 2. Deutsch



Female Connector Part Number (included): DT04-3P

Male Mating Connector (customer provided): DT06-3S **IP Rating:** IP67

Figure 3. Spade Terminal



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Figure 4. Screw Terminal

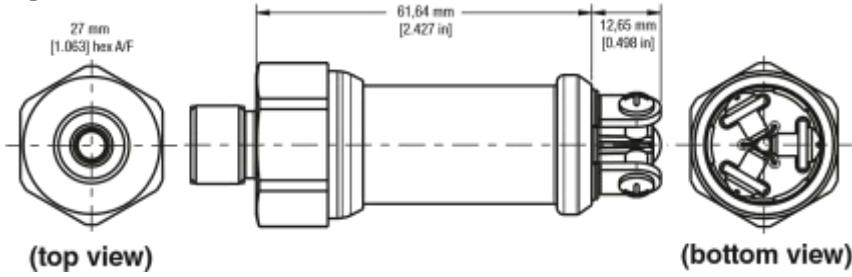
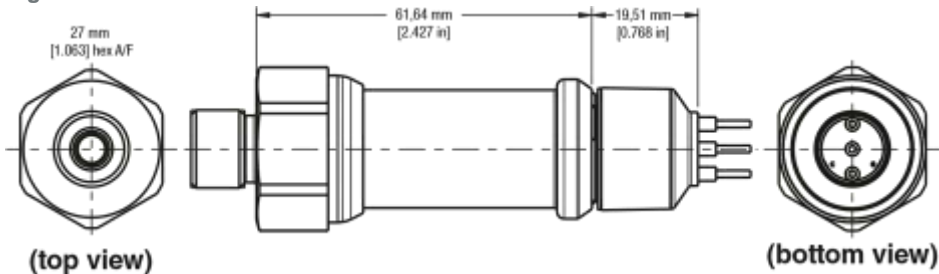


Figure 5. Cable

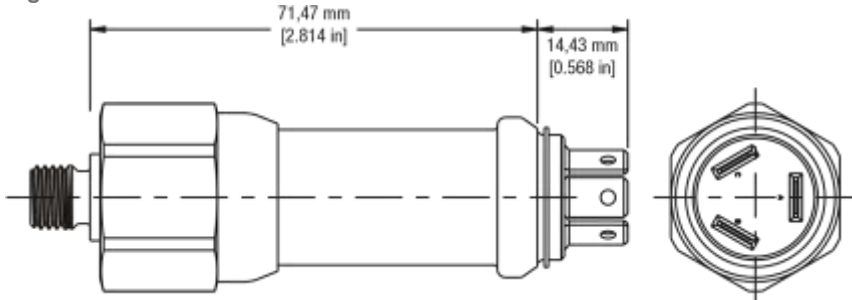


IP Rating: IP67

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



HP with smaller port: dimension 2.814 in remains same for all base ports.(bottom view)

Figure 7. HP Series Pressure Port Dimensions

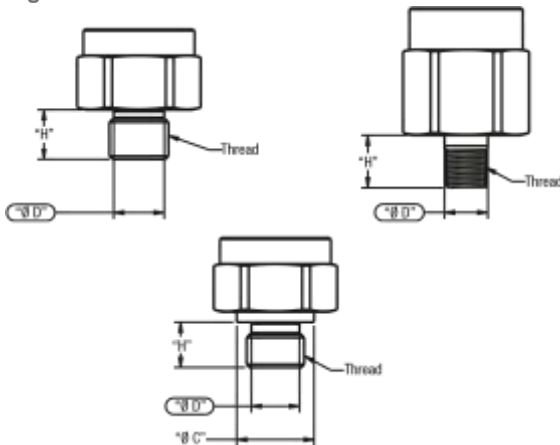


Table 2. HP/HE Series Pressure Port Diameters and Heights

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]

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

C ¹	1/2-20 UNF	10,85 mm [0.427 in]	–	11 mm [0.433 in]
G ²	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]
F ²	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]

DIMENSIONS - MEDIUM PRESSURE: ME SERIES

Figure 8. AMP Superseal 1.5

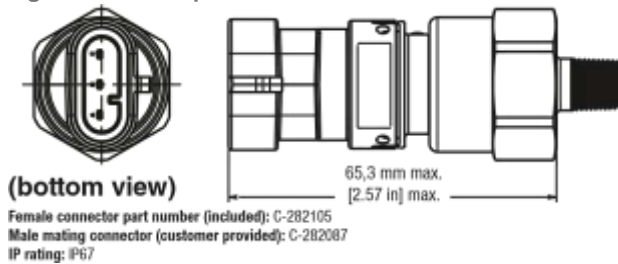


Figure 9. Deutsch 3-pin

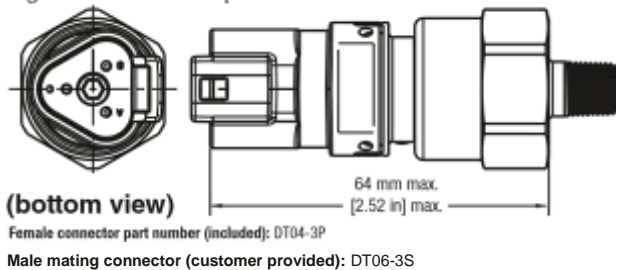


Figure 14. ME Series Pressure Port Dimensions

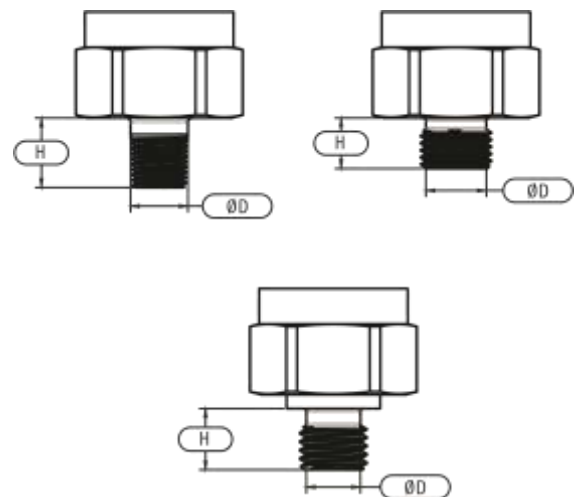


Table 3. ME Series Pressure Port Diameters and Heights

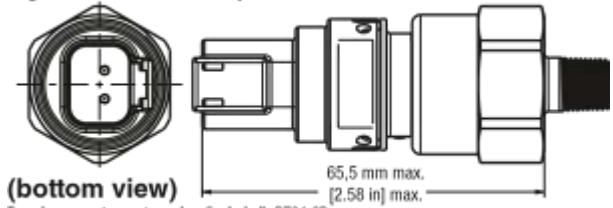
¹ Port Style C: Switches less than 975 psi will use Base Style B; switches greater than 975 psi will use Base Style A.

² 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. Switches less than 150 psi will use only Base Style B.

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IP rating: IP67

Figure 10. Deutsch 2-pin

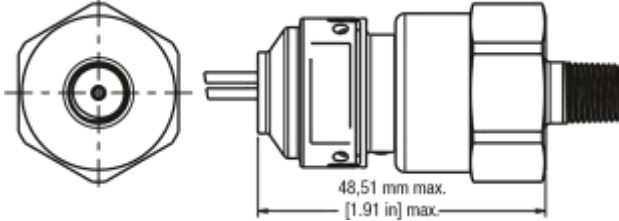


(bottom view)

Female connector part number (included): DT04-2P

Male mating connector (customer provided): DT06-2S

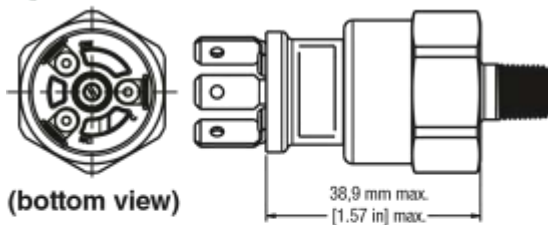
IP rating: IP67



view)

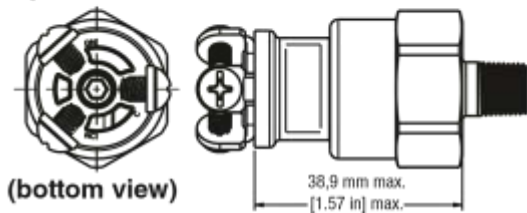
IP rating: IP67

Figure 12. Blade terminal



(bottom view)

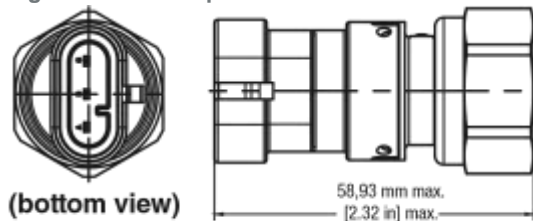
Figure 13. Screw terminal



(bottom view)

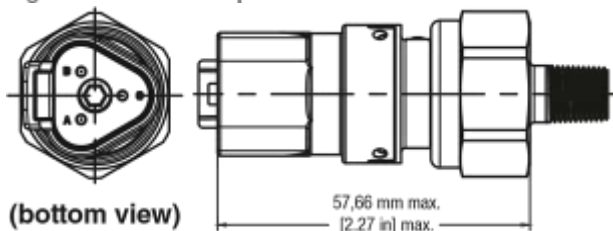
DIMENSIONS - LOW PRESSURE: LP SERIES, LE SERIES

Figure 15. AMP Superseal 1.5



(bottom view)

Figure 16. Deutsch 3-pin



(bottom view)

Figure 17. Deutsch 2-pin

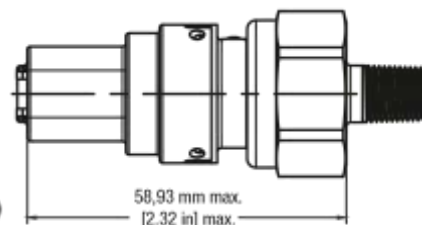
Figure 11. Wire out

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]

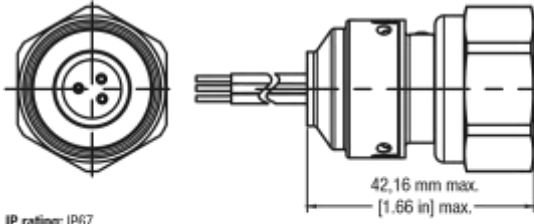
(bottom

(bottom view)

Figure 18. Wire out

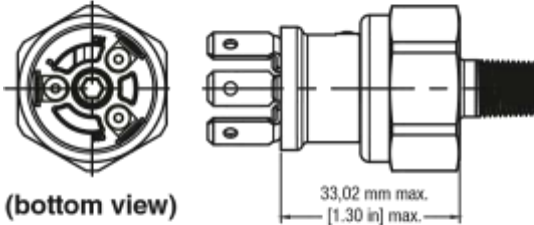


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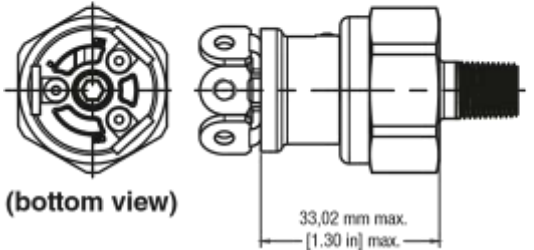
IP rating: IP67

Figure 19. Spade terminal



(bottom view)

Figure 20. Screw terminal



(bottom view)

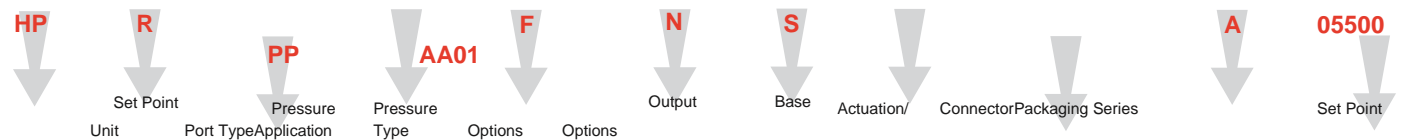
Figure 21. LP/LE Series Pressure Port Dimensions

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 x 1.5	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 x 1.5	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 x 1.0	8,41 mm [0.331 in]	8,51 mm [0.335 in]

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 Series

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

HE Series

S Cold-rolled steel

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

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/ 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/TT Cannon 2P Sure-Seal Circular Connector - SS2R-120-1804-000 (2-Pin Connector) (18 AWG)
TA	8.5-inch Cable w/TT 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/ 1/4 in Spade 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)

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

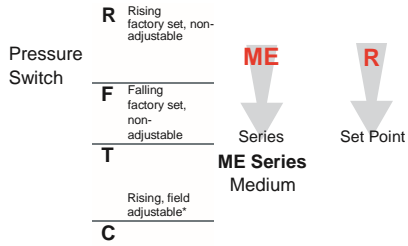
<p>(100 psi) 4500 High</p> <p>with value will</p> <p>Switch</p>	<p>R Rising factory set, non-adjustable</p> <p>F Falling factory set, non-adjustable</p>	<p>to NOTE:</p> <p>Pressure set</p> <p>NOTE:</p> <p>Pressure be multiplied For bar, the</p> <p>6,89 bar to 310,26 bar [100 psi to 4500 psi]</p>	<p>P psig, sealed gage</p> <p>B bar, sealed gage</p>	<p>A 1/4-18 NPT</p> <p>B 1/8-27 NPT</p> <p>C 1/2-20 UNF</p> <p>E M12 x 1.5</p> <p>F M14 x 1.5</p> <p>G 9/16-18 UNF</p> <p>H 3/4-16 UNF</p> <p>K M18 x 1.5</p> <p>M 7/16-20 UNF</p> <p>N 7/8-14 UNF</p> <p>P 1/2-14 NPT</p> <p>T M10 x 1.0</p> <p>Y G1/4 BSPP</p>	<p>N SPST-NO, silver contacts</p> <p>C SPST-NC, silver contacts</p> <p>D SPDT-NO/NC, silver contacts</p> <p>H NO, gold inlay contacts</p> <p>J NC, gold inlay contacts</p> <p>K SPDT(NO/NC), gold inlay contacts</p> <p>E NO, with 510 Ω/ 0.5 W & 160 Ω/ 0.5 W resistors</p> <p>F NC, with 3000 Ω/ 0.125 W resistor</p> <p>*** For screw terminal option only</p>	<p>point is always</p> <p>Set point below</p> <p>B), by 100 and</p> <p>in the listing. For</p> <p>allows for 2</p> <p>value will be</p>	<p>N Petroleum-based hydraulic fluid (Nitrile)</p> <p>P Glycol-based fluid (EPDM)</p> <p>A Standard switch</p> <p>B With 3 shrink sleeve</p> <p>C With shrink sleeve (plastic coating)</p> <p>D With shrink sleeve (acrylic coating)</p> <p>F 304,8 mm [12 in] total wire length</p> <p>G With conduit sleeve</p> <p>H With Vibra seal for port threads</p> <p>J #8-32 screw with external tooth lockwasher***</p> <p>K 914,4 mm [36 in] total wire length</p> <p>L 304,8 mm [12 in] total wire length with acrylic sleeve</p> <p>M 914,4 mm [36 in] total wire length with acrylic sleeve</p>	<p>BB 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)</p> <p>CB 6-inch Cable w/AMP Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG)</p> <p>DB 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)*</p> <p>EB 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG)</p> <p>FB 10-inch Cable w/Metripack 150 Delphi 12052641 (2-Pin Connector) (18 AWG)</p> <p>GB 8.5-inch Cable w/Deutsch Plug HD 16-3 96S (3-Pin Connector) (16 AWG)*</p>	<p>01 Individually boxed units*</p> <p>02 Individually boxed units**</p> <p>15 25boxes packed in bulk packaging* individual</p> <p>16 boxes packed in bulk packaging**</p> <p>20 50boxes packed in bulk packaging* individual</p> <p>21 boxes packed in bulk packaging**</p> <p>25 25bulk packaging* units in</p> <p>26 25bulk packaging** units in</p> <p>50 50parts inbulk packaging* individual</p>	
	<p>Pressure set be multiplied For bar, the</p>		<p>For psi, the set point entered in the listing. For example, 245.5 psi is noted as 02455. This allows for 1 decimal place.</p>		<p>psi will use Base Style A.</p> <p>Port Styles F and G: Switches less than 350 psi than 350 psi will use Base Style A. Port Styles A, Style B. Switches less than 150 psi will use only</p>		<p>will use Base Style B; switches greater B, E, M, P, T, and Y will use Base Base Style B.</p>		<p>* Not applicable for HP Series (Base Style B)</p> <p>** Not applicable for HP (Base Style A) & HE Series</p>	
	<p>Port Style C: Switches less than 975 psi will use Base Style B; switches greater than 975</p>									

*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.

NOMENCLATURE: MEDIUM PRESSURE

For example, **MER01500PPFPVAAA01** 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.

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



* 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)

01500

Pressure Set Point

1.72 bar to 24.13 bar
[25 psi to 350 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.



K **AA01**

Actuation/Connector/Packaging

Application

Type

Options Options

K Kapton diaphragm (Teflon coated), Nitrile O-ring*

H Kapton diaphragm (Teflon coated), EPDM O-ring*

Honeywell

Switches, HP,

P, LE Series

A	1/4-18 NPT	P	SPST-NO, gold-plated contacts
B	1/8-27 NPT	M	SPST-NC, gold-plated contacts
C	1/2-20 UNF	Y	SPDT-NO/NC, gold-plated contacts
D	1/8-27 PTF		NO, with 510 Ω
E	M12 x 1.5	E	0.5 W & 160 Ω / 0.5 W resistors
F	M14 x 1.5	F	NC, with 3000 0.125 W resistor/ Ω
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		

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A Sta
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B With 3 shrink
sleeve

C Wit
slex
(pla

D Wit
slex
(ac

E

Z Wit
resi
terminals

F

304,8 mm [12 in]
total wire length

G

With conduit
sleeve

H

With port thread
protective cap for
LPS

J

#9-32 screw with
external tooth
lockwasher

K

914,4 mm [36 in]
total wire length

R

With port neck
O-ring for LPS

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

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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/ 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/ 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 12015792 (2-Pin Connector) (18 AWG)
FB	10-inch Cable

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

terminations.

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*** For screw terminal option only

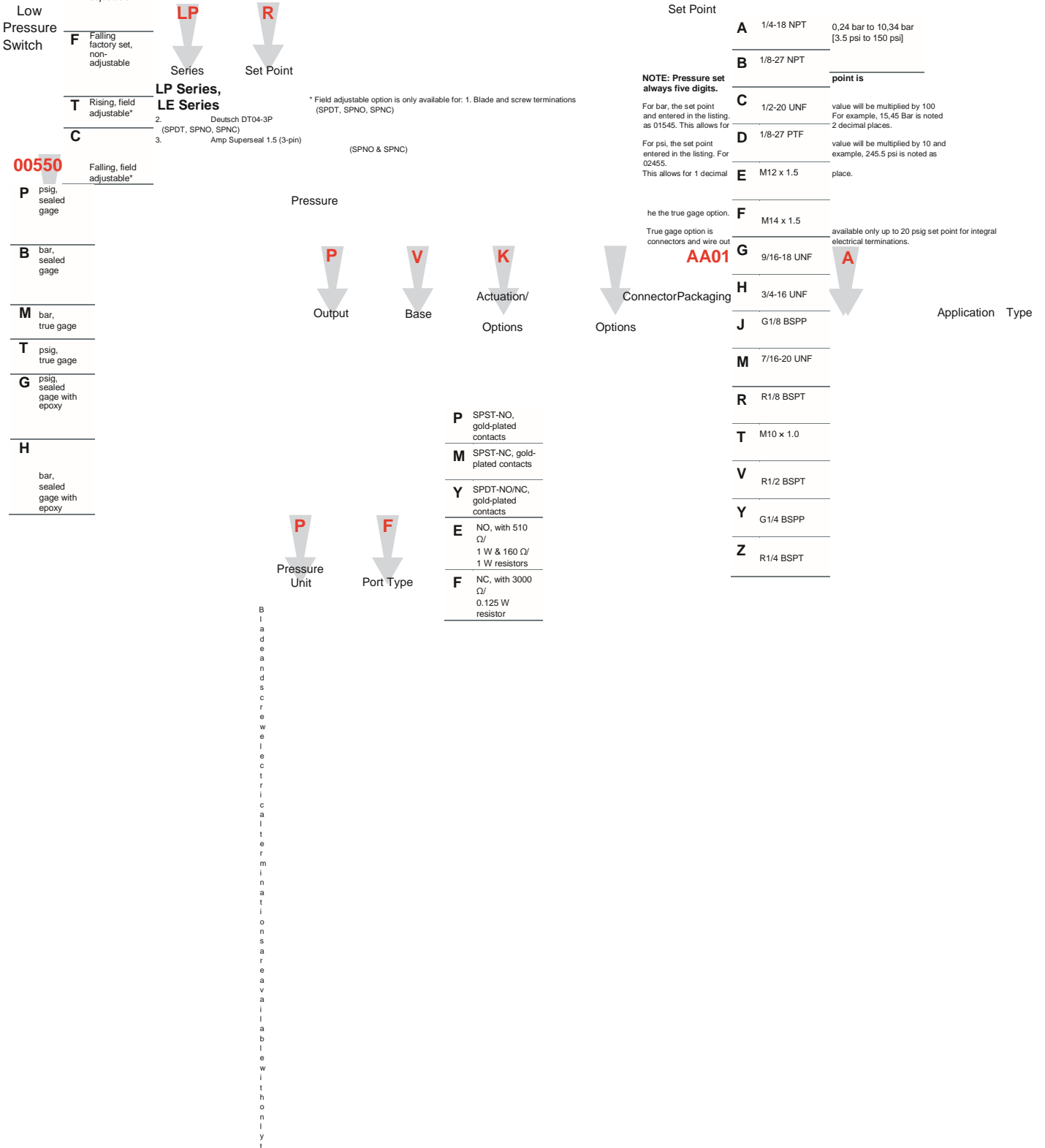
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*These connectors are designed for dual circuit (SPDT) by default. They can be used for single-circuit applications (SPNC/SPNC) by making suitable connections. Refer to wiring diagram.

NOMENCLATURE: LOW PRESSURE

For example, **LPR00550PFPVKAAA01** 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® R Rising factory set, non-adjustable), Nitrile O-ring actuation/application, spade terminal connectors, standard switch, individually boxed units.



Honeywell Pwitches, HP, HE, ME, LP, LE Series

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 ⁴
B	Brass
N	Cold-rolled steel
V	Stainless steel
D	Cold-rolled steel, bigger orifice
E	Brass, bigger orifice
F	Stainless steel, bigger orifice
01	Individually boxed units
	25 individual
15	boxes packed in bulk packaging
20	150 bulk packaging units in
A	Standard switch
B	With 3 shrink sleeve
	With shrink sleeve
C	sleeve (plastic coating)
	With shrink sleeve
D	sleeve (acrylic coating)
F	304,8 total wire length mm [12 in]
G	With conduit sleeve
K	914,4 total wire length mm [36 in]
	304,8 mm [12 in]
L	total wire length with acrylic sleeve
	914,4 mm [36 in]
M	total wire length with acrylic sleeve

¹ Air, Petr oleu m- bas ed hydr auli c fluid engi ne oil ² Gly col- bas ed fluid ³ For high tem per atur e fluid med ia

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/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 - 1202827 (3-Pin Connector) (18 AWG)*
MA	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)
NA	2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG)
PA	4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG)
RA	5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SS2R-120-1804-000 (2-Pin Connector) (18 AWG)
SA	8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SS3R-120-8551-001 (3-Pin Connector) (16 AWG)*
TA	10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EP06 (3- Socket Connector) (16 AWG)*
UA	10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)*
VA	4.5-inch Cable w/ 1/4 in Spade Terminals 6,3 mm X 0,8 mm (16 AWG)*
WA	10-inch Cable w/ Metripack 2-Pin Shroud Connector 153000287 (18 AWG)
XA	6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)*
YA	10-inch Cable w/Deutsch DT06-2S-CE06 (2- Socket Connector) (18 AWG)
ZA	Deutsch DT04-2P-E005 (2-Pin Connector)
AB	10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)*
BB	6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG)
CB	10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)*
DB	4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG)
EB	

*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. **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

m **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.

m **WARNING**

MISUSE OF DOCUMENTATION

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

– Industrial product line card

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.

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. 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 it 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. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer 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 printing. However, we assume no responsibility for its use.

Find out more Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's sensing and switching products, call **+1-815-235-6847** or **1-800-537-6945**, visit **sensing.honeywell.com**, or e-mail inquiries to **info.sc@honeywell.com**

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November 2015

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