

## Honeywell Pressure Switches

HP, HE, MH, ME, LP, LE, 5000, and 1000 Series

50094081

Issue 5

Datasheet



### DESCRIPTION

The Honeywell Pressure Switch portfolio consists of:

- High Pressure (HE/HP Series)
- Medium Pressure (ME/MH Series)
- Low Pressure (LE/LP Series)
- 5000 Series, 1000 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 can 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.

### DIFFERENTIATION

**Through optional smart diagnostic technology, Honeywell pressure switches are able to detect failures such as open circuits, cut wires, worn insulation, and more<sup>6</sup>**

Optional smart diagnostic technology allows up to four segregated signal amplitudes to perform diagnostics and status<sup>6</sup>

Pressure port snubber suppresses pressure spikes<sup>2</sup>  
IP67 sealing provides enhanced durability in harsh environmental and washing applications<sup>1</sup>

### VALUE TO CUSTOMERS

Designed to provide resistance to corrosion and enhances equipment life with available two million life cycle rating and IP67 rating<sup>1</sup>

Can expedite design and product cycle due to ability to receive samples in two weeks and production units in four weeks

Can reduce tooling, service, and manufacturing labor costs due to standard connections, extended product life, and expedited design and production cycle

### FEATURES

- Pressure switching set point range: 3.5 psi to 4500 psi
- Proof pressure: from 500 psi up to 10,000 psi
- Burst pressure: from 1250 psi up to 20,000 psi
- Life cycle rating up to 2 million
- IP67 sealing rating<sup>4</sup>
- Operating temperature: 40 °C to 120 °C [ 40 °F to 248 °F]
- Hysteresis option<sup>5</sup>
- More than 15 pressure port options and over 30 electrical terminations
- Plated steel, brass or stainless steel options<sup>3</sup>
- Switching point accuracy up to -2 %

### POTENTIAL APPLICATIONS



Agricultural machinery  
Heavy duty construction machinery and trucks  
Lawn & garden machinery  
Marine vessels  
Material handling machinery  
Railway



CNC machines  
Compressors/boilers  
Fracking equipment  
Food & beverage equipment  
Generators  
HVAC/R equipment  
Mud pumps  
Pneumatic equipment  
Presses/punches  
Pressure washers  
Trash compactors  
Water pumps & jet cutting machines

### PORTFOLIO

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

<sup>1</sup> HP, HE, MH, ME, LP, LE Series  
<sup>2</sup> HP, HE Series  
<sup>3</sup> ME, MH, LP, LE Series  
<sup>4</sup> HP, HE, LP, LE, ME Series  
<sup>5</sup> HP, HE, LP Series  
<sup>6</sup> HP, HE, ME, LP, LE Series

# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

**Table 1. Specifications**

Characteristic	HP Series	HE Series	ME Series	MH Series	LP Series	LE Series	5000 Series	1000 Series
Product length (various terminations)	see pages 5 and 6	see page 5	see page 8	see page 7	see page 9	see page 9	see page 10	
Product length (blade)	see pages 5 and 6	see page 5	see page 8	see page 7	see page 9	see page 9	58,42 mm [2.3 in]	65,6 mm [2.583 in]
Product length (#8 32 screws)	see pages 5 and 6	see page 5	see page 8	see page 7	see page 9	see page 9	60,96 mm [2.4 in]	
Product length (Metripack)	see pages 5 and 6	see page 5	see page 8	see page 7	see page 9	see page 9	73,66 mm [2.9 in]	
Hex size	27 mm	27 mm	27 mm	27 mm	27 mm	27 mm	0.50 in (steel) 0.437 in (brass)	M10 x 1.25 banjo fitting
Ease of installation	box spanner	box spanner	box spanner	box spanner	box spanner	box spanner	1/2 in open spanner	18 mm open spanner
Snap-action switch	yes	yes	no	no	yes	no	no	no
Set point <sup>1</sup> range	100 psi to 4500 psi	150 psi to 4500 psi	25 psi to 350 psi	40 psi to 500 psi	3.5 psi to 150 psi	3.5 psi to 150 psi	75 psi to 150 psi	10 psi to 60 psi [0,69 bar to 2,7 bar]
Set point ranges	6 (Base Style A) 7 (Base Style B)	6	4	4	4	4	8	
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)	40 psi to 70 psi (-7 psi); >70 psi to 130 psi (-10 psi); >130 psi to 200 psi (-15 psi); >200 psi to 280 psi (-20 psi); >280 psi to 350 psi (-30 psi); >350 psi to 500 psi (-40 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)	0.5 psi to 1 psi (-0.3 psi); 1.1 psi to 3 psi (-0.5 psi); 3.1 psi to 7 psi (-1 psi); 8 psi to 13 psi (-2 psi); 14 psi to 24 psi (-3 psi); 25 psi to 50 psi (-5 psi); 51 psi to 90 psi (-7 psi); 91 psi to 150 psi (-10 psi)	20 psi -10 psi; 58 psi -20 psi
Average dead-band 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)	40 psi to 70 psi (-6 psi); >70 psi to 130 psi (-10 psi); >130 psi to 200 psi (-15 psi); >200 psi to 280 psi (-20 psi); >280 psi to 350 psi (-30 psi); >350 psi to 500 psi (-40 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)	0.5 psi to 3 psi (-1.5 psi); 4 psi to 7 psi (-2.5 psi); 8 psi to 13 psi (-3.5 psi); 14 psi to 24 psi (-8 psi); 25 psi to 50 psi (-15 psi); 51 psi to 90 psi (-23 psi); 91 psi to 150 psi (-40 psi)	n/a
Operating pressure <sup>2</sup>	5,000 psi max.	5,000 psi max.	500 psi max.	600 psi max.	250 psi max.	250 psi max.	150 psi, 250 psi	1400 psi [96,5 bar] max.
Proof pressure <sup>3</sup>	10,000 psi (Base Style A) 6,500 psi (Base Style B)	10,000 psi	4,000 psi	6,000 psi	500 psi	500 psi	500 psi	2973 psi [205 bar]
Hysteresis	5 % to 55 % (based on set point range)	3 % to 65 % (based on set point range)	n/a	n/a	5 % to 55 % (based on set point range)	n/a	n/a	n/a
Burst pressure <sup>4</sup>	20,000 psi (Base Style A); 9,000 psi (Base Style B)	20,000 psi	8,000 psi	9,000 psi	1250 psi	1250 psi	4000 psi	3500 psi [241 bar]
Current rating (resistive)	5 A at 250 Vac 5 A at 24 Vdc	3 A at 250 Vac 3 A at 24 Vdc	7.5 mA to 3 A, 24 Vdc and 250 Vac	100 mA to 3 A max.	7.5 mA to 5 A, 24 Vdc and 250 Vac	7.5 mA to 3 A, 24 Vdc and 250 Vac	15 A, 6 Vdc; 8 A, 12 Vdc; 4 A, 24 Vdc	12 Vdc with two-1157 bulbs (4.4 A)
Current rating (inductive)	5 A at 115 Vac (SX rating); 3 A at 28 Vdc	n/a	n/a	n/a	1 A at 28 Vdc	n/a	1 A, 120 Vac 0.5 A, 240 Vac	n/a

<sup>1</sup>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.

# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

Characteristic	HP Series	HE Series	ME Series	MH Series	LP Series	LE Series	5000 Series	1000 Series	
Rated thermal current	5 A	3 A	3 A	n/a	5 A	3 A	n/a	n/a	
Rated insulation voltage	28 V	28 V	28 V	n/a	28 V	28 V	n/a	n/a	
Short-circuit protective device c-type max. rating	Class J fuse (10 A, 600 V)			n/a	Class J fuse (10 A, 600 V)		n/a	n/a	
Conditional short circuit current	1000 A			n/a	1000 A	1000 A	n/a	n/a	
Pollution degree	3 (macro environment)			n/a	3 (macro environment)		n/a	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]				40 °C to 121 °C [ 40 °F to 250 °F]	20 °C to 74 °C [ 4 °F to 165 °F]	
Media connection	multiple ports available	multiple ports available	multiple ports available				1/8 27 NPT male thread	multiple ports available	
Pressure ports	Refer to product nomenclature for pressure port types.	C = 1/2 20 UNF F = M14 x1.5 G = 9/16 18 UNF H = 3/4 16 UNF K = M18 x1.5 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 x1.5 F = M14 x1.5 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 x1.0 V = R1/2 BSPT Y = G1/4 BSPP Z = R1/4 BSPT	A = 1/4 18 NPT B = 1/8 27 NPT C = 1/2 20 UNF D = 1/8 27 PTF E = M12 x1.5 F = M14 x1.5 G = 9/16 18 UNF H = 3/4 16 UNF J = G1/8 BSPP L = 3/8 24 UNF M = 7/16 20 UNF P = 1/2 14 NPT R = R1/8 BSPT T = M10 x1.0 V = R1/2 BSPT Y = G1/4 BSPP Z = R1/4 BSPT	A = 1/4 18 NPT B = 1/8 27 NPT C = 1/2 20 UNF D = 1/8 27 PTF E = M12 x1.5 F = M14 x1.5 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 x1.0 V = R1/2 BSPT Y = G1/4 BSPP Z = R1/4 BSPT	A = 1/4 18 NPT B = 1/8 27 NPT C = 1/2 20 UNF D = 1/8 27 PTF E = M12 x1.5 F = M14 x1.5 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 x1.0 V = R1/2 BSPT Y = G1/4 BSPP Z = R1/4 BSPT	1/8 27 NPT	M10 x 1.25 double banjo; M10 x 1; 1/8 27 NPT	
Circuit forms <sup>5</sup>	SPDT, SPST - NO/NC		SPDT, SPST - NO/NC	SPST - NO/NC	SPDT, SPST - NO/NC	SPDT, SPST - NO/NC	SPST NO; SPST NC	SPNO	
Smart pressure	single- or dual-resistor topology available				single- or dual-resistor topology available				
Life	2 million (Base A) 1 million (Base B)	1 million	1 million	1 million	2 million	1 million	100,000 cycles	100,000 cycles	
Agency approvals (special use switches)							UL Custom (select models)		
Agency approvals (other)	CE	CE	CE	CE	CE	CE			
Field adjustability <sup>6</sup>	no	no	yes	yes	yes	yes	yes	no	
Spike dampening	yes	yes	no	no	no	no	no	no	
Ingress protection <sup>7</sup>	IP67 (connectors) IP67 (wire/Base A) IP69K (wire/Base B) IP00 (blade/screw)	IP67 (connectors) IP00 (blade/screw)	IP67 (connectors) IP67 (wire out) IP00 (blade/screw)	IP67 (connectors) IP00 (blade/screw)	IP67 (connectors) IP67 (wire out) IP00 (blade/screw)	IP67 (connectors) IP67 (wire out) IP00 (blade/screw)	IP00	IP65	
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 <sup>2</sup> , 11 mSEC, 100 shocks / axis		500 m/sec <sup>2</sup> , 11 mSEC						15 G @ 5 mSEC
Wetted part (diaphragm)	n/a		Kapton <sup>fi</sup> (Te on <sup>fi</sup> coated)	Nitrile/EPDM/LTNB	Kapton <sup>fi</sup> (Te on <sup>fi</sup> coated)	Tefzel <sup>fi</sup>	Polymide Im	EPDM	
Wetted part (piston)	nitrile o-ring, steel piston		nitrile or EPDM o-ring	nitrile or EPDM o-ring	nitrile or EPDM o-ring	nitrile or EPDM o-ring	nitrile or EPDM o-ring	EPDM	
Weight	133 g [4.7 oz] (Base Style A) 178 g [6.28 oz] (Base Style B)		53 g [1.9 oz]	53 g [1.9 oz]	58 g [2.0 oz]	53 g [1.9 oz]	65 g [2.3 oz]	40 g [1.4 oz]	
Contacts	silver / gold inlay	silver	gold plated	gold plated	gold plated	gold plated	silver-plated copper	silver-plated copper	
Product finish	zinc plating	zinc plating	zinc plating	zinc plating	zinc plating	zinc plating	glass reinforced polyester (housing); plated steel (base)	Rynite 545 glass filled (housing); Trivalent plated steel (base)	

<sup>1</sup>Set point: Point at which switch actuates or de-actuates

<sup>2</sup>Operating pressure: Maximum normal system operating pressure

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

<sup>4</sup>Burst pressure: Point of complete switch failure

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

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

<sup>7</sup>IP00 for AA and BA terminations.

# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

**Table 2. Terminations**

Series	Available Terminations
HP, HE, ME, LP, LE	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)
MH	AA = Spade Terminals BA = Screw Terminals DA = Amp Super Seal 1.5 - 282105 1 (3 Pin Connector) EA = 10-inch Cable, 18 AWG (Wire Out, No Connector) HA = 10-inch Cable w/Metripack 280 Delphi 15300002 (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 - 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) 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) 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)

\*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**



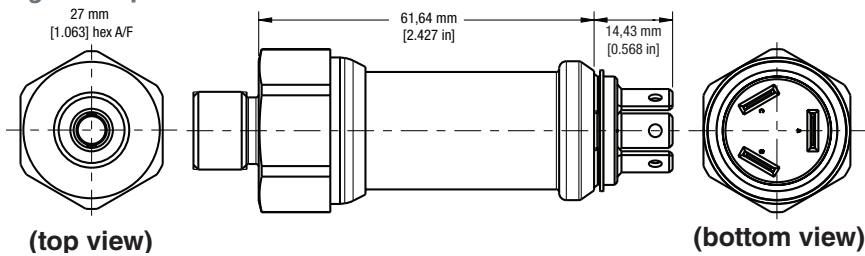
**Female Connector Part Number (included):** C 282105  
**Male Mating Connector (customer provided):** C 282087  
**IP Rating:** IP67

**Figure 2. Deutsch**

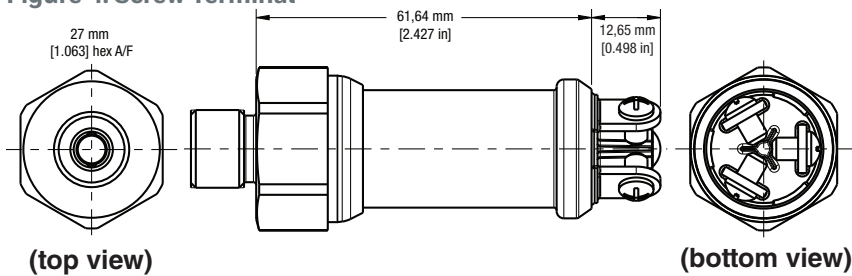


**Female Connector Part Number (included):** DT04 3P  
**Male Mating Connector (customer provided):** DT06 3S  
**IP Rating:** IP67

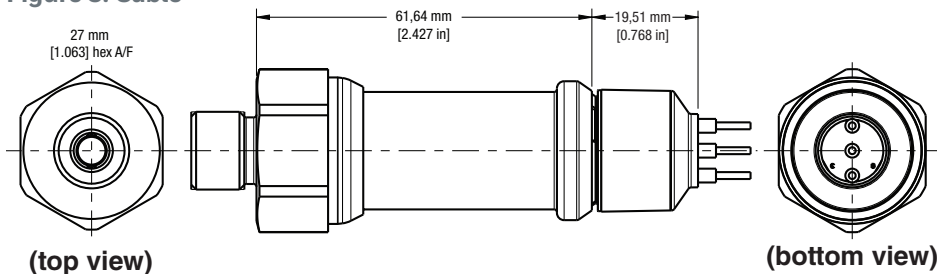
**Figure 3. Spade Terminal**



**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 Base Style B



Figure 7. HP Series Pressure Port Dimensions



Table 3. HP/HE Series Pressure Port Diameters and Heights

Nomenclature Code	Thread	Height A	Diameter ØD	Diameter ØC	Height H
M	7/16 20 UNF		9,25 mm [0.364 in]		11 mm [0.433 in]
C <sup>1</sup>	1/2 20 UNF		10,85 mm [0.427 in]		11 mm [0.433 in]
G <sup>2</sup>	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	1,60 mm [0.063 in]	9,25 mm [0.364 in]	13,79 mm [0.543 in]	11 mm [0.433 in]
E	M12 x 1.5	2,48 mm [0.098 in]	10,85 mm [0.427 in]	16,79 mm [0.661 in]	11 mm [0.433 in]
F <sup>2</sup>	M14 x 1.5	2,48 mm [0.098 in]	12,24 mm [0.482 in]	18,8 mm [0.74 in]	12 mm [0.472 in]
K	M18 x 1.5	2,48 mm [0.098 in]	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]

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

<sup>2</sup>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.

**DIMENSIONS MEDIUM PRESSURE: MH SERIES**

Figure 8. AMP Superseal 1.5

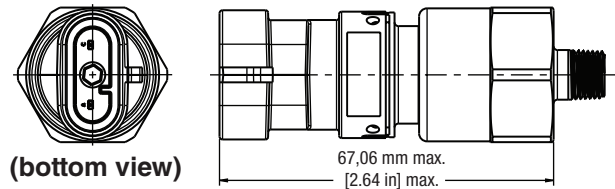


Figure 9. Deutsch 2-pin

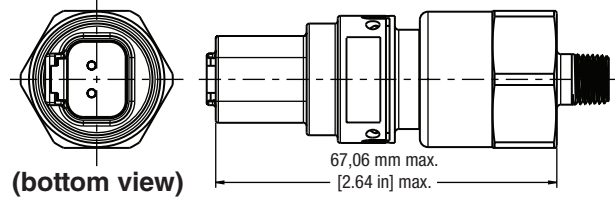


Figure 10. Wire out

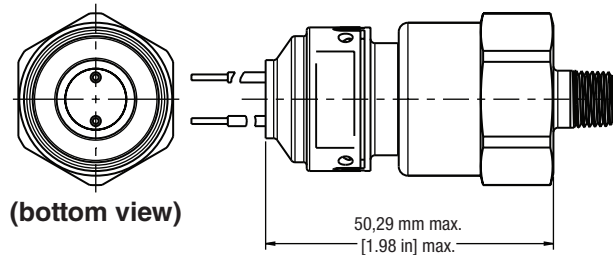


Figure 11. Blade terminal

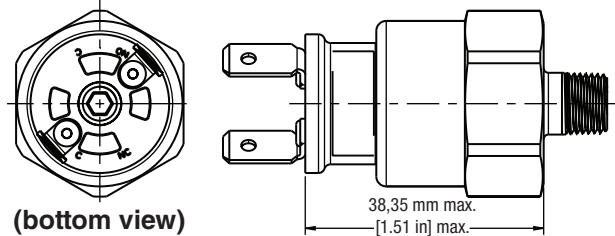


Figure 12. Screw terminal

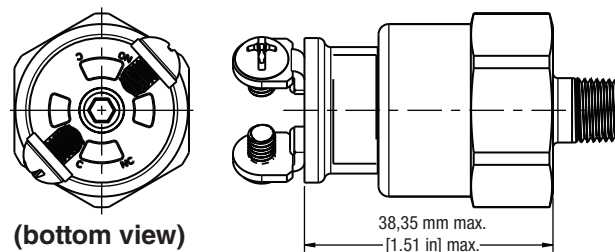


Figure 13. MH Series Pressure Port Dimensions

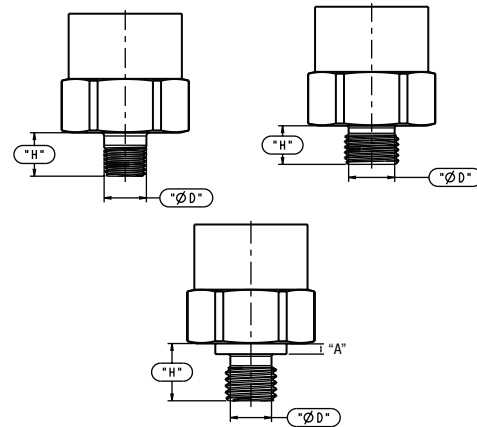


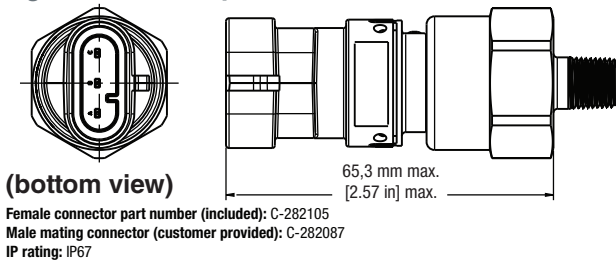
Table 4. MH Series Pressure Port Diameters and Heights

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]

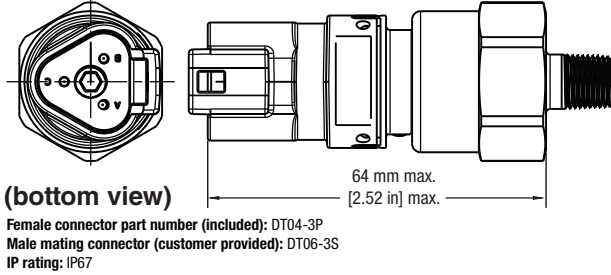
Port	Height A	Diameter ØC	Diameter ØD	Height H
M14 x1.5	2,49 mm [0.098 in]	18,8 mm [0.74 in]	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 x1.5	2,49 mm [0.098 in]	16,79 mm [0.661 in]	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 x1.0	1,6 mm [0.063 in]	13,79 mm [0.543 in]	8,41 mm [0.331 in]	8,51 mm [0.335 in]

**DIMENSIONS MEDIUM PRESSURE: ME SERIES**

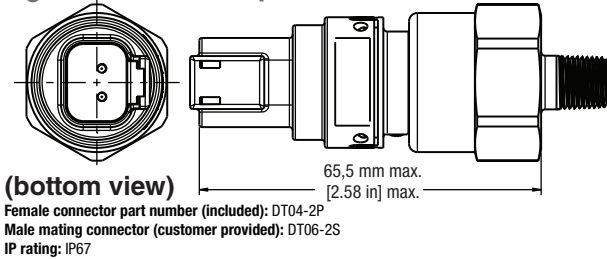
**Figure 14. AMP Superseal 1.5**



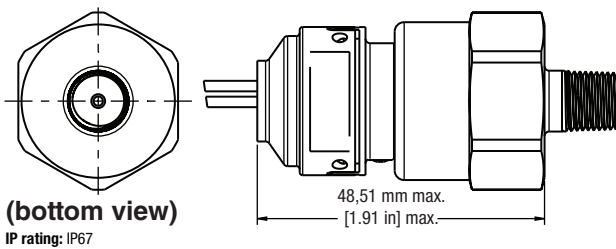
**Figure 15. Deutsch 3-pin**



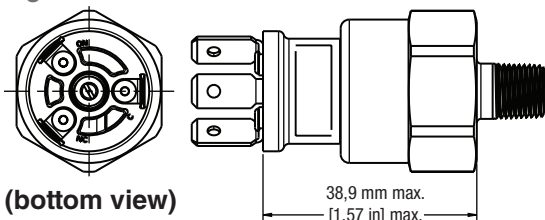
**Figure 16. Deutsch 2-pin**



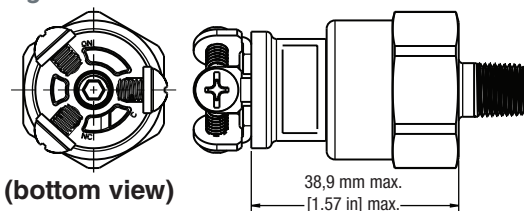
**Figure 17. Wire out**



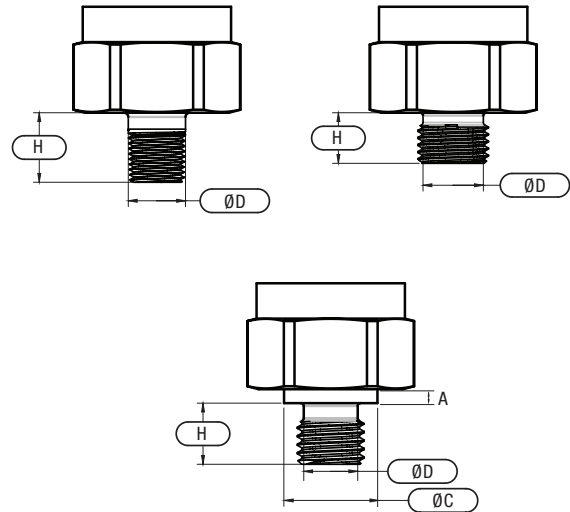
**Figure 18. Blade terminal**



**Figure 19. Screw terminal**



**Figure 20. ME Series Pressure Port Dimensions**



**Table 5. 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]

Port	Height A	Diameter ØC	Diameter ØD	Height H
M14 × 1.5	2,49 mm [0.098 in]	18,8 mm [0.74 in]	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 × 1.5	2,49 mm [0.098 in]	16,79 mm [0.661 in]	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 × 1.0	1,6 mm [0.063 in]	13,79 mm [0.543 in]	8,41 mm [0.331 in]	8,51 mm [0.335 in]



**DIMENSIONS LOW PRESSURE: LP SERIES, LE SERIES**

Figure 21. AMP Superseal 1.5

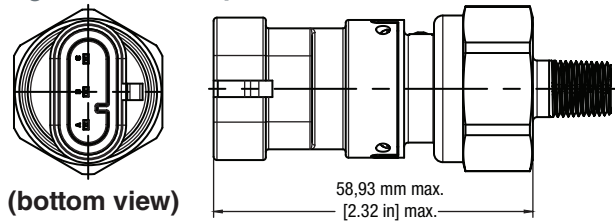


Figure 22. Deutsch 3-pin



Figure 23. Deutsch 2-pin

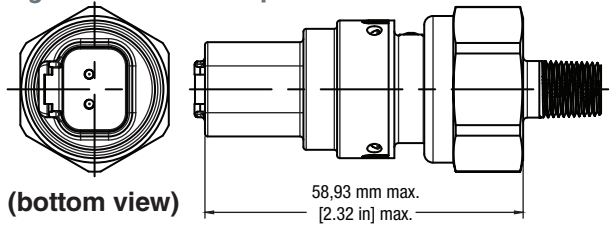


Figure 24. Wire out

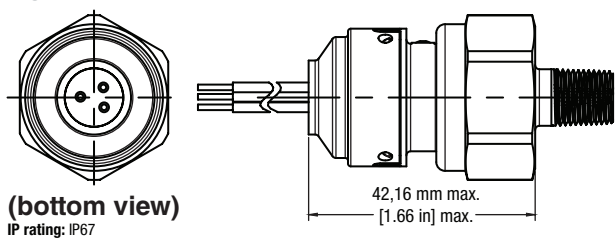


Figure 25. Spade terminal

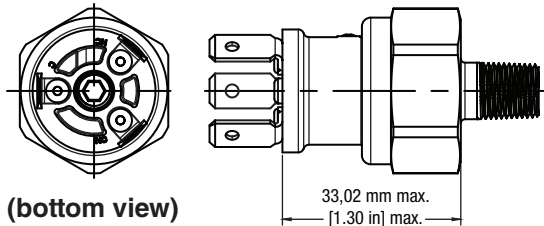


Figure 26. Screw terminal

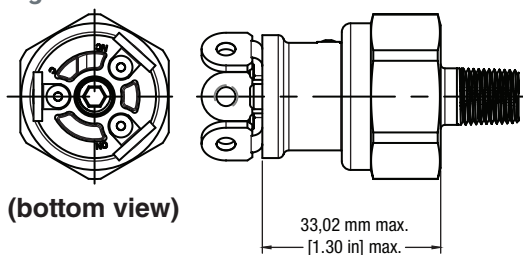


Figure 27. LP/LE Series Pressure Port Dimensions

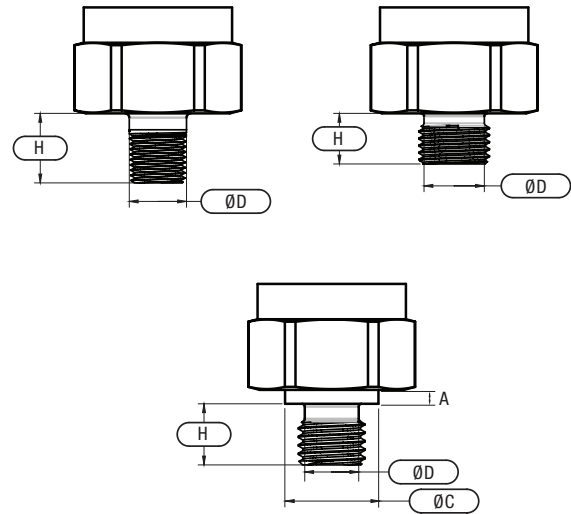


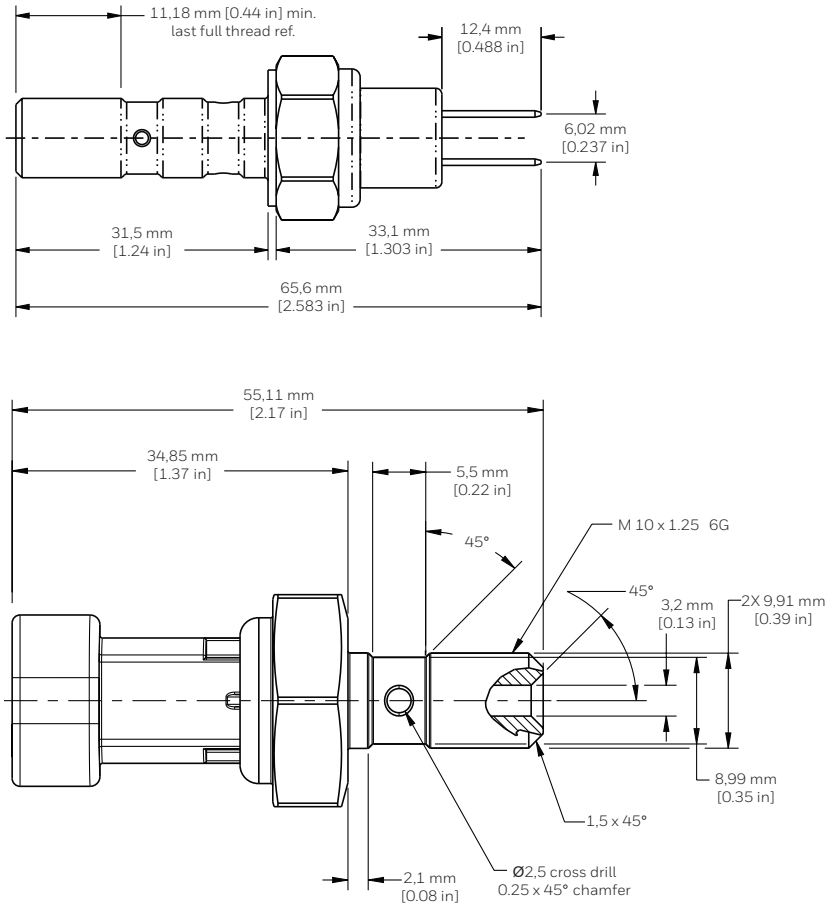
Table 6. LP/LE Series Pressure Port Diameters and Heights

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]

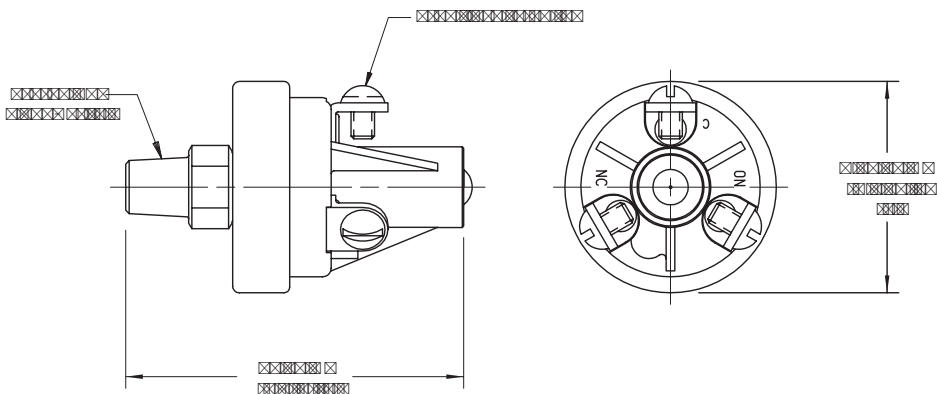
Port	Height A	Diameter ØC	Diameter ØD	Height H
M14 × 1.5	2,49 mm [0.098 in]	18,8 mm [0.74 in]	11,71 mm [0.461 in]	10,998 mm [0.433 in]
M12 × 1.5	2,49 mm [0.098 in]	16,79 mm [0.661 in]	9,70 mm [0.382 in]	10,998 mm [0.433 in]
M10 × 1.0	1,6 mm [0.063 in]	13,79 mm [0.543 in]	8,41 mm [0.331 in]	8,51 mm [0.335 in]

**DIMENSIONS 1000 SERIES, 5000 SERIES**

**Figure 28. 1000 Series Dimensions**



**Figure 29. 5000 Series Dimensions**



# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

## NOMENCLATURE: HIGH PRESSURE

For example, **HPR05500PFNSPAAA01** denotes 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
<b>HP Series</b> <b>HE Series</b> (100 psi to 4500 psi), High Pressure Switch	R Rising factory set, non-adjustable F Falling factory set, non-adjustable <b>NOTE:</b> 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) <b>NOTE:</b> Pressure set point is always 3 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 T M10 x 1.0	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 / 0.5 W & 160 / 0.5 W resistors F NC, with 3000 / 0.125 W resistor	S Cold-rolled steel N Petroleum-based hydraulic fluid (Nitrile) P Glycol-based fluid (EPDM) EDPM O-ring option only available from 100 psi to 250 psi.	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 250 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 - SS2P-120-1804-000 (2-Pin Connector) (18 AWG) TA 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SS3P-120-8551-001 (3-Pin Connector) (16 AWG)* UA 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EPO6 (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) 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 18-3-36S (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 Vibra 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 *** For screw terminal option only	O1 Individually boxed units* O2 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* * Not applicable for HP Series (Base Style B) ** Not applicable for HP (Base Style A) & HE Series	

### HP Series Port Types

Thread Type	Base Style A	Base Style B
A = 1/4 18 NPT	n/a	100 psi to 4500 psi
B = 1/8 27 NPT	n/a	100 psi to 4500 psi
C = 1/2 20 UNF	>975 psi	n/a
E = M12 x 1.5	n/a	100 psi to 4500 psi
F = M14 x 1.5	>350 psi	n/a
G = 9/16 18 UNF	>350 psi	<350 psi
H = 3/4 16 UNF	>150 psi	<150 psi
K = M18 x 1.5	150 psi to 4500 psi	n/a
M = 7/16 20 UNF	n/a	100 psi to 4500 psi
N = 7/8 14 UNF	150 psi to 4500 psi	n/a
T = M10 x 1.0	n/a	100 psi to 4500 psi

Port Type A, B, E, M, and T will be available only with HP Series. Base Style B will be available only with HP Series

\*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, MH, ME, LP, LE, 5000, 1000 Series

## NOMENCLATURE: MEDIUM PRESSURE, HIGH BURST

For example, **MHR01500FPVMAAA01** defines a medium pressure, high burst switch, rising factory set, non-adjustable set point, 150 psi set point, psig, sealed gage pressure unit, 1/4 18 NPT port type, SPST NO contacts output, stainless steel base, LTNB diaphragm, and spade terminal connectors.

Series	Set Point	Pressure Set Point	Pressure Unit	Port Type	Output	Base	Actuation/ Application	Connector Type	Options	Packaging Options
<b>MH</b> Medium Pressure Switch	<b>R</b> Rising factory set, non-adjustable <b>F</b> Falling factory set, non-adjustable <b>T</b> Rising, field adjustable* <b>C</b> Falling, field adjustable*	0.24 bar to 10.34 bar (3.5 psi to 150 psi) <b>NOTE: Pressure set point is always 2 digits.</b>	<b>P</b> psig, sealed gage <b>B</b> bar, sealed gage <b>M</b> bar, true gage* <b>T</b> psig, true gage* <b>G</b> psig, sealed gage with epoxy** <b>H</b> bar, sealed gage with epoxy**	<b>A</b> 1/4-18 NPT <b>B</b> 1/8-27 NPT <b>C</b> 1/2-20 UNF <b>D</b> 1/8-27 PTF <b>E</b> M12 x 1.5 <b>F</b> M14 x 1.5 <b>G</b> 9/16-18 UNF <b>H</b> 3/4-16 UNF <b>J</b> G1/8 BSPP <b>L</b> 3/8-24 UNF <b>M</b> 7/16-20 UNF <b>P</b> 1/2-14 NPT <b>R</b> R1/8 BSPT <b>T</b> M10 x 1.0 <b>V</b> R1/2 BSPT <b>Y</b> G1/4 BSPP <b>Z</b> R1/4 BSPT	<b>P</b> SPST-NO <b>M</b> SPST-NC	<b>N</b> Cold-rolled steel <b>B</b> Brass <b>V</b> Stainless steel	<b>M</b> LTNB diaphragm (Low-temp Buna N) <b>N</b> HNBR diaphragm (Hydrogenated Nitrile Butadiene Rubber) <b>E</b> EPDM diaphragm (Ethylene-Propylene-Diene Monomer)	<b>AA</b> 1/4 in Spade Terminals <b>BA</b> Screw Terminals <b>DA</b> Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) <b>EA</b> 10-inch Cable, 18 AWG (Wire Out, No Connector) <b>HA</b> 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG)* <b>MA</b> 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG) <b>NA</b> 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG) <b>PA</b> 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG) <b>RA</b> 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG) <b>SA</b> 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SSCR-120-1804-000 (2-Pin Connector) (18 AWG) <b>WA</b> 4.5-inch Cable w/ 1/4 in Spade Terminals 6.3 mm x 0.8 mm (16 AWG)* <b>XA</b> 10-inch Cable w/ Metripack 2-Pin Shroud Connector 153000287 (18 AWG) <b>YA</b> 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)* <b>ZA</b> 10-inch Cable w/Deutsch DT06-2S-CE06 (2-socket Connector) (18 AWG) <b>AB</b> Deutsch DT04-2P-E005 (2-Pin Connector) <b>CB</b> 6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG) <b>DB</b> 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)* <b>EB</b> 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG) <b>FB</b> 10-inch Cable w/Metripack 150 Delphi 12052841 (2-Pin Connector) (18 AWG)	<b>A</b> Standard switch <b>C</b> With shrink sleeve (plastic coating) <b>D</b> With shrink sleeve (acrylic coating) <b>F</b> 304.8 mm [12 in] total wire length <b>G</b> With conduit sleeve <b>H</b> With Vibra seal for threads <b>J</b> #8-32 screw with external tooth lockwasher*** <b>K</b> 914.4 mm [36 in] total wire length <b>L</b> 304.8 mm [12 in] total wire length w/ shrink sleeve <b>M</b> 914.4 mm [36 in] total wire length w/ shrink sleeve	<b>01</b> Individually boxed units <b>15</b> 25 individual boxes packed in bulk packaging <b>20</b> 150 units in bulk packaging <b>25</b> 25 units in bulk packaging <b>30</b> 150 individual boxes packed in bulk packaging

\*Field adjustable option is only available for:  
1. Blade and screw terminations (SPDT, SPNO, SPNC)  
2. Deutsch DT04-2P (SPDT, SPNO, SPNC)  
3. Amp Superseal 1.5 (3-pin) (SPNO & SPNC)

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.

\*\*Blade and screw electrical terminations are available with only the true gage option.  
\*\*\*Connector cavity and roll forming area filled with epoxy to meet dunk test sealing capability.

\*\*\*applicable only for screw terminal version.

\*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.

# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

## NOMENCLATURE: MEDIUM PRESSURE

For example, **MERO1500FPVKAAAO1** defines a medium 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<sup>®</sup> diaphragm (Te on<sup>®</sup> coated), Nitrile O-ring actuation/application, spade terminal connectors, standard switch, individually boxed units.

ME Series Medium Pressure Switch	R Set Point	01500 Pressure Set Point	P Pressure Unit	A Port Type	P Output	N Base	K Actuation/ Application	AA Connector Type	A Options	O1 Packaging Options	
R Rising factory set, non-adjustable	F Falling factory set, non-adjustable	T Rising, field adjustable*	C Falling, field adjustable*	P psig, sealed gage	A 1/4-18 NPT	P SPST-NO, gold-plated contacts	N Cold-rolled steel with zinc plating	K Kapton <sup>®</sup> diaphragm (Te on <sup>®</sup> coated, Nitrile O-ring <sup>1</sup> )	AA 1/4 in Spade Terminals	A Standard switch	O1 Individually boxed units
F Falling factory set, non-adjustable	T Rising, field adjustable*	C Falling, field adjustable*	P bar, sealed gage	B 1/8-27 NPT	M SPST-NC, gold-plated contacts	V Stainless steel	H Kapton <sup>®</sup> diaphragm (Te on <sup>®</sup> coated, EPDM O-ring <sup>2</sup> )	BA Screw Terminals	B With 3 shrink sleeve	15 25 individual boxes packed in bulk packaging	
T Rising, field adjustable*	C Falling, field adjustable*	P psig, true gage	M bar, true gage	C 1/2-20 UNF	Y SPDT-NO/NC, gold-plated contacts	E NO, with 510 / 0.5 W & 160 / 0.5 W resistors	* Air, Petroleum-based hydraulic fluid, engine oil * 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*	P psig, sealed gage with epoxy	G psig, sealed gage with epoxy	T psig, true gage	D 1/8-27 PTF	E NO, with 510 / 0.5 W & 160 / 0.5 W resistors	F NC, with 3000 / 0.125 W resistor		DA Amp Super Seal 1.5 - 282105-1 (3-Pin Connector)	D With shrink sleeve (acrylic coating)	25 25 units in bulk packaging	
	H bar, sealed gage with epoxy	F M14 x 1.5	G psig, sealed gage with epoxy	E M12 x 1.5	F NC, with 3000 / 0.125 W resistor			EA 10-inch Cable, 18 AWG (Wire Out, No Connector)	E With 1/8 W resistor between terminals	30 150 individual boxes packed in bulk packaging	
	G bar, sealed gage with epoxy	G 9/16-18 UNF	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		
		H 3/16-18 UNF						GA 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)*	G With conduit sleeve		
		J G1/8 BSPP						HA 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG)*	H With Vibra seal for port threads		
		M 7/16-20 UNF						JA 10-inch Cable w/Din49650-C (3-Pin Connector) (18 AWG)*	J #8-32 screw with external tooth lockwasher		
		R R1/8 BSPT						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		
		T M10 x 1.0						LA 10-inch Cable w/Packard Weatherpack Male Terminal - 12020827 (3-Pin Connector) (18 AWG)*	R With port neck O-ring for LPS		
		V R1/2 BSPT						MA 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG)	*** For screw terminal option only		
		Y G1/4 BSPP						NA 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG)			
		Z R1/4 BSPT						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-120-8651-001 (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 (16 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) (16 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) (16 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 (SPNO/SPNO) by making suitable connections. Refer to wiring diagram.

# Honeywell Pressure Switches, HP, HE, MH, ME, LP, LE, 5000, 1000 Series

## NOMENCLATURE: LOW PRESSURE

For example, **LPR00550PPFVKA01** denotes 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<sup>®</sup> diaphragm (Te on<sup>®</sup> coated), Nitrile O-ring actuation/application, spade terminal connectors, standard switch, individually boxed units.

LP Series, LE Series Low Pressure Switch	R	00550	P	F	P	V	K	AA	A	O1	
	Set Point	Pressure Set Point	Pressure Unit	Port Type	Output	Base	Actuation/ Application	Connector Type	Options	Packaging Options	
<b>R</b> Rising factory set, non-adjustable	<b>F</b> Falling factory set, non-adjustable	<b>T</b> Rising, field adjustable*	<b>C</b> Falling, field adjustable*	<b>P</b> psig, sealed gage	<b>A</b> 1/4-18 NPT	<b>P</b> SPST-NO, gold-plated contacts	<b>B</b> Brass	<b>K</b> Kapton <sup>®</sup> diaphragm (Te on <sup>®</sup> coated), Nitrile O-ring <sup>†</sup>	<b>AA</b> 1/4 in Spade Terminals	<b>A</b> Standard switch	<b>O1</b> Individually boxed units
<b>F</b> Falling factory set, non-adjustable	<b>T</b> Rising, field adjustable*	<b>C</b> Falling, field adjustable*	<b>P</b> bar, sealed gage	<b>B</b> 1/8-27 NPT	<b>M</b> SPST-NC, gold-plated contacts	<b>N</b> Cold-rolled steel with zinc plating	<b>H</b> Kapton <sup>®</sup> diaphragm (Te on <sup>®</sup> coated), EPDM O-ring <sup>†</sup>	<b>BA</b> Screw Terminals	<b>B</b> With 3 shrink sleeve (plastic coating)	<b>15</b> 25 individual boxes packed in bulk packaging	
<b>T</b> Rising, field adjustable*	<b>C</b> Falling, field adjustable*	<b>P</b> bar, true gage	<b>M</b> bar, true gage	<b>C</b> 1/2-20 UNF	<b>Y</b> SPDT-NO/NC, gold-plated contacts	<b>V</b> Stainless steel	<b>T</b> Tetzel <sup>®</sup> and Kapton <sup>®</sup> diaphragm, EPDM O-ring <sup>†</sup>	<b>CA</b> Deutsch DT04-3P-E005 (3-Pin Connector)	<b>C</b> With shrink sleeve (plastic coating)	<b>20</b> 150 units in bulk packaging	
<b>C</b> Falling, field adjustable*	<b>P</b> psig, true gage	<b>D</b> 1/8-27 PTF	<b>T</b> psig, true gage	<b>D</b> 1/8-27 PTF	<b>E</b> NO, with 510 / 1 W & 160 / 1 W resistors****	<b>E</b> NO, with 510 / 1 W & 160 / 1 W resistors****	<b>U</b> Tetzel <sup>®</sup> and Kapton <sup>®</sup> diaphragm, EPDM O-ring <sup>†</sup>	<b>DA</b> Amp Super Seal 1.5 - 282105-1 (3-Pin Connector)**	<b>D</b> With shrink sleeve (acrylic coating)	<b>25</b> 25 units in bulk packaging	
<b>G</b> psig, sealed gage with epoxy	<b>H</b> bar, sealed gage with epoxy	<b>E</b> M12 x 1.5	<b>G</b> psig, sealed gage with epoxy	<b>E</b> M12 x 1.5	<b>F</b> NC, with 3000 / 0.125 W resistor	<b>F</b> NC, with 3000 / 0.125 W resistor	<b>Air</b> , Petroleum-based hydraulic uid, engine oil <b>Glycol</b> -based uid <b>For high temperature uid media (LE Series only)</b> <b>For high temperature uid media, glycol-based uid (LE Series only)</b>	<b>EA</b> 10-inch Cable, 18 AWG (Wire Out, No Connector*)	<b>F</b> 304.8 mm [12 in] total wire length	<b>30</b> 150 individual boxes packed in bulk packaging	
<b>H</b> bar, sealed gage with epoxy	<b>G</b> psig, sealed gage with epoxy	<b>F</b> M14 x 1.5	<b>H</b> bar, sealed gage with epoxy	<b>F</b> M14 x 1.5	<b>G</b> NC with 510 / 0.5 W and 160 / 0.5 W resistors****	<b>G</b> NC with 510 / 0.5 W and 160 / 0.5 W resistors****	<b>FA</b> 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (18 AWG)*	<b>EA</b> 10-inch Cable, 18 AWG (Wire Out, No Connector*)	<b>G</b> With conduit sleeve		
<b>G</b> psig, sealed gage with epoxy	<b>H</b> bar, sealed gage with epoxy	<b>G</b> 9/16-18 UNF	<b>G</b> psig, sealed gage with epoxy	<b>G</b> 9/16-18 UNF	**** Available only on LP Series		<b>GA</b> 10-inch Cable w/Amp Super Seal 1.5 - 282105-1 (3-Pin Connector) (18 AWG)*	<b>HA</b> 10-inch Cable w/Deutsch DT04-3P-E005 (3-Pin Connector) (18 AWG)*	<b>H</b> With Vibra seal for port threads		
<b>H</b> bar, sealed gage with epoxy	<b>G</b> psig, sealed gage with epoxy	<b>H</b> 3/4-16 UNF	<b>H</b> bar, sealed gage with epoxy	<b>H</b> 3/4-16 UNF	<b>J</b> G1/8 BSPP	<b>J</b> G1/8 BSPP	<b>HA</b> 10-inch Cable w/Metripack 280 Delphi 15300002 (2-Pin Connector) (18 AWG)*	<b>JA</b> 10-inch Cable w/Din49650-C (3-Pin Connector) (18 AWG)*	<b>K</b> 914.4 mm [36 in] total wire length		
<b>J</b> G1/8 BSPP	<b>K</b> G1/8 BSPP	<b>M</b> 7/16-20 UNF	<b>J</b> G1/8 BSPP	<b>M</b> 7/16-20 UNF	<b>R</b> R1/8 BSPT	<b>R</b> R1/8 BSPT	<b>KA</b> 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-Pin Connector) (18 AWG)*	<b>KA</b> 10-inch Cable w/M12x1 (Brad Harrison Micro) - 21032121306 Harting P/N (3-Pin Connector) (18 AWG)*	<b>L</b> 304.8 mm [12 in] total wire length with acrylic sleeve		
<b>M</b> 7/16-20 UNF	<b>N</b> Cold-rolled steel with zinc plating	<b>R</b> R1/8 BSPT	<b>M</b> 7/16-20 UNF	<b>R</b> R1/8 BSPT	<b>T</b> M10 x 1.0	<b>T</b> M10 x 1.0	<b>LA</b> 10-inch Cable w/Packard Weatherpack Male Terminal - 12020927 (2-Pin Connector) (18 AWG)*	<b>LA</b> 10-inch Cable w/Packard Weatherpack Male Terminal - 12020927 (2-Pin Connector) (18 AWG)*	<b>M</b> 914.4 mm [36 in] total wire length with acrylic sleeve		
<b>R</b> R1/8 BSPT	<b>V</b> Stainless steel	<b>T</b> M10 x 1.0	<b>R</b> R1/8 BSPT	<b>T</b> M10 x 1.0	<b>V</b> R1/2 BSPT	<b>V</b> R1/2 BSPT	<b>MA</b> 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG)	<b>MA</b> 10-inch Cable w/Deutsch DT04-2P-E005 (2-Pin Connector) (18 AWG)	<b>N</b> 304.8 mm [12 in] total wire length		
<b>T</b> M10 x 1.0	<b>Y</b> SPDT-NO/NC, gold-plated contacts	<b>Z</b> R1/4 BSPT	<b>T</b> M10 x 1.0	<b>Z</b> R1/4 BSPT	<b>Y</b> G1/4 BSPP	<b>Y</b> G1/4 BSPP	<b>NA</b> 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG)	<b>NA</b> 3-inch Cable w/Packard 2P Tower Connector - 12015792 (2-Pin Connector) (18 AWG)	<b>O</b> 914.4 mm [36 in] total wire length with acrylic sleeve		
<b>V</b> Stainless steel	<b>Z</b> R1/4 BSPT	<b>Y</b> G1/4 BSPP	<b>V</b> Stainless steel	<b>Y</b> G1/4 BSPP	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>PA</b> 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG)	<b>PA</b> 2.75-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (18 AWG)	<b>P</b> For screw terminal option only		
<b>Y</b> SPDT-NO/NC, gold-plated contacts	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Y</b> SPDT-NO/NC, gold-plated contacts	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>RA</b> 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG)	<b>RA</b> 4-inch Cable w/Packard 2P Shroud Connector - 12010973 (2-Pin Connector) (16 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>SA</b> 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SS2R-120-1804-000 (2-Pin Connector) (18 AWG)	<b>SA</b> 5.5-inch Cable w/ITT Cannon 2P Sure-Seal Circular Connector - SS2R-120-1804-000 (2-Pin Connector) (18 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>TA</b> 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SS3R-120-8551-001 (3-Pin Connector) (16 AWG)*	<b>TA</b> 8.5-inch Cable w/ITT Cannon 3P Sure-Seal Circular Connector - SS3R-120-8551-001 (3-Pin Connector) (16 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>UA</b> 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EPO6 (3-Socket Connector) (16 AWG)*	<b>UA</b> 10-inch Cable - Vacuum Impregnated w/Deutsch DT06-3S-EPO6 (3-Socket Connector) (16 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>VA</b> 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)*	<b>VA</b> 10-inch Cable - Vacuum Impregnated w/Deutsch DT04-3P-E005 (3-Pin Connector) (16 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>WA</b> 4.5-inch Cable w/ 1/4 in Spade Terminals 6.3 mm x 0.8 mm (16 AWG)*	<b>WA</b> 4.5-inch Cable w/ 1/4 in Spade Terminals 6.3 mm x 0.8 mm (16 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>XA</b> 10-inch Cable w/ Metripack 2-Pin Shroud Connector 153000287 (16 AWG)	<b>XA</b> 10-inch Cable w/ Metripack 2-Pin Shroud Connector 153000287 (16 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>YA</b> 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)*	<b>YA</b> 6-inch Cable w/Amp Super Seal 1.5 - 282104-1 (2-Pin Connector) (18 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>ZA</b> 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG)	<b>ZA</b> 10-inch Cable w/Deutsch DT06-2S-CE06 (2-Socket Connector) (18 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>AB</b> Deutsch DT04-2P-E005 (2-Pin Connector)	<b>AB</b> Deutsch DT04-2P-E005 (2-Pin Connector)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>BB</b> 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)*	<b>BB</b> 10-inch Cable w/Metripack 150 Delphi 12129615 (3-Pin Connector) (18 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>CB</b> 6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG)	<b>CB</b> 6-inch Cable with Amp Super Seal 1.5 - 282080-1 (2-Pin Connector) (18 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>DB</b> 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)*	<b>DB</b> 10-inch Cable w/AMP 2.5 mm System Series Connector 1-967402-1 (18 AWG)*			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>EB</b> 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG)	<b>EB</b> 4.5-inch Cable w/Packard Shroud Connector 12015792 (2-Pin Connector) (18 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>FB</b> 10-inch Cable w/Metripack 150 Delphi 12032641 (2-Pin Connector) (18 AWG)	<b>FB</b> 10-inch Cable w/Metripack 150 Delphi 12032641 (2-Pin Connector) (18 AWG)			
<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>Z</b> R1/4 BSPT	<b>GB</b> 8.5-inch Cable w/Deutsch Plug HD 16-3 96S (3-Pin Connector) (16 AWG)	<b>GB</b> 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.  
\*\*For electrical termination with SPST option, only SPNO con. variation is available. SPNC con. variation cannot be provided.

## ADDITIONAL MATERIALS

The following associated literature is available at [sensing.honeywell.com](http://sensing.honeywell.com):

- Product range guide
- Product line guide
- Technical note: Smart Diagnostic Technology
- 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

### 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](http://sensing.honeywell.com)**, or e-mail inquiries to **[info.sc@honeywell.com](mailto:info.sc@honeywell.com)**

### Honeywell Safety and Productivity Solutions

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## 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 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.**

### Warranty/Remedy

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. 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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