



## 200 SERIES



- Switch adjustment ranges from vacuum through 6,000 psig depending on model
- 200V & 200L: Standard Brass with NBR diaphragm wetted parts, 200H: Standard Zinc-nickel with NBR diaphragm wetted parts
- SPST or SPDT snap-action switch with solid Silver contacts
- RoHS compliant

### APPLICATIONS

- Hydraulics & pneumatics
- Pumps & compressors
- Tank monitoring
- Leak detection
- Water management

### SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| <b>Switching parameters</b> |   |
| Function                    | SPST or SPDT  |
| Contact rating*             | 5A @ 125/250 Vac<br>5A @ 12/24 Vdc  |
| Repeatability               | See Chart 1 on page 111   |
| Hysteresis                  | See Chart 2 on page 111   |
| Contact material            | Solid Silver, self-cleaning, optional gold-plated   |
| Frequency                   | Max. 100 cycles/min   |
| Switch type                 | Snap action   |
| Pressure ranges             | -5 inHg to -28 inHg (350 psig) through 1000 psig to 6,000 psig (9,000 psig)   |
| Service life                | >1,000,000 load cycles  |
| Temperature ranges          | Media -4 °F to 176 °F (-20 °C to 80 °C)<br>Ambient -4 °F to 176 °F (-20 °C to 80 °C)<br>Storage -4 °F to 176 °F (-20 °C to 80 °C) |
| Proof pressure              | Static = 9000 psi (620 bar)<br>Dynamic = 7500 psi (517 bar)   |
| Measuring element           | 200V: Brass, NBR diaphragm<br>200L: Brass, NBR diaphragm<br>200H: Zinc-nickel, NBR diaphragm                                      |
| Housing material            | 200V & 200L: Brass, optional Stainless Steel<br>200H: Zinc-nickel plated Steel, optional Stainless Steel                          |
| Environmental rating        | IP00 - Exposed Terminals<br>IP65 - DIN EN 175301-803 Form A<br>IP69 - M12, Flying Leads & Deutsch Integral                        |
| Weight                      | Approximately 0.2 lb.   |

\* Gold contacts may be required for less than 12 VDC and 20 milliamps

| ORDERING INFORMATION   |   |  |
|--|---|--|
| <b>SERIES</b>  | <b>200V</b> 200 Vacuum Series   | <b>200H</b> 200 High Pressure Series   |
|  | <b>200L</b> 200 Low Pressure Series   |  |
| <b>SWITCH FUNCTIONS</b>  | 1 SPST, Normally open<br>2 SPST, Normally closed  | 3 SPDT   |
| <b>PROCESS CONNECTIONS</b>   | 1 1/8" NPT male<br>2 1/4" NPT male<br>10 G 1/4B   | 31 9/16-18 SAE Male, Non-Adjustable<br>33 G 1/8B<br>45 7/16-20 SAE Male, Non-Adjustable  |
| <b>200V VACUUM PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)</b> | 5/25-vac -5 inHg to -25 inHg (350 psig)   |  |
| <b>200L LOW PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)</b>    | 3/15 3 psig to 15 psig (350 psig)<br>5/30 5 psig to 30 psig (350 psig)  | 15/75 15 psig to 75 psig (350 psig)<br>50/150 50 psig to 150 psig (350 psig)   |
| <b>200H HIGH PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)</b>   | 10/85 10 psig to 85 psig (9,000 psig)<br>65/300 65 psig to 300 psig (9,000 psig)<br>125/600 125 psig to 600 psig (9,000 psig)   | 500/2500 500 psig to 2,500 psig (9,000 psig)<br>500/3500 500 psig to 3,500 psig (9,000 psig)<br>1000/6000 1,000 psig to 6,000 psig (9,000 psig)  |
| <b>ELECTRICAL CONNECTIONS†</b>   | 4 Spade Terminals (1/4 x 1/32)<br>8 DIN EN 175301-803 Form A<br>34 Packard 3-Pin ††<br>46 Deutsch Integral 3-Pin (DT04-3P) ††<br>66 Deutsch Integral 2-Pin (DT04-2P) **<br>69 M12 x 1 3-Pin<br>77 18" Flying Leads<br>78 6-32 Terminal Screws<br>96 Weatherpack Tower, 2-Pin Female***<br>97 Weatherpack Tower, 2-Pin Male*** | 98 Weatherpack Shroud, 2-Pin Female***<br>99 Weatherpack Shroud, 2-Pin Male***<br>100 Deutsch 2-Pin Male (DT04-2P)*, **<br>101 Deutsch 3-Pin Male (DT04-3P)*<br>103 Deutsch 2-Pin Female Socket (DT06-2S)*, **<br>104 Deutsch 3-Pin Female Socket (DT06-3S)*<br>110 Weatherpack Tower, 3-Pin Female*<br>111 Weatherpack Tower, 3-Pin Male*<br>112 Weatherpack Shroud, 3-Pin Female*<br>113 Weatherpack Shroud, 3-Pin Male* |
| <b>OPTIONS***</b>  | AU Gold Plated Contacts<br>EP EPDM Diaphragm (-10/250 °F)<br>HNBR Low Temp Nitrile Diaphragm (-40/110 °F)<br>KP Polyimide Diaphragm (-40/230 °F)  | SP Factory Adjusted Switch Point<br>SS 316 SS Wetted Materials<br>VT FKM Diaphragm (0/250 °F)  |

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

\* Options attached to Flying Leads

\*\* For SPST only

\*\*\* Not all options are available for all ranges, consult factory

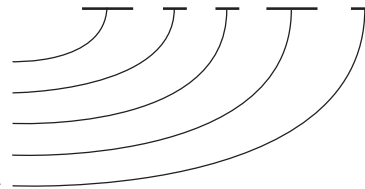
† Other electrical connections available, consult the factory

†† To order this option, the switch function must be SPDT(-3)

### EXAMPLE

Series .....200 Low Pressure Series  
 Switch function..... SPST, normally open  
 Process connection ..... 1/4" NPT Male  
 Adjustable range ..... 5 psig to 30 psig (350 psig)  
 Electrical connection ..... DIN EN 175301-803 Form A

200L - 1 - 2 - 5/30 - 8



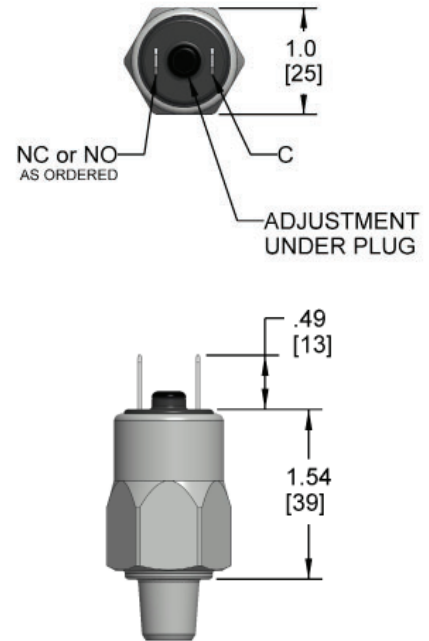
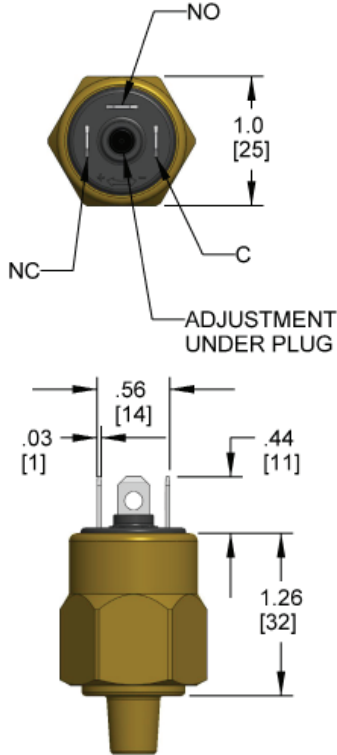
### Chart 1

| Series | Range         | Repeatability             |
|--------|---------------|---------------------------|
| 200V   | 5 - 25 inHg   | 1 psi or 5% of setpoint   |
| 200L   | 3 - 15        | 1 psi or 5% of setpoint   |
|        | 5 - 30        |                           |
|        | 15 - 75       |                           |
|        | 50 - 150      |                           |
| 200H   | 10 - 85       | 2% of full setpoint range |
|        | 65 - 300      |                           |
|        | 125 - 600     |                           |
|        | 500 - 2,500   |                           |
|        | 500 - 3,500   |                           |
|        | 1,000 - 6,000 |                           |

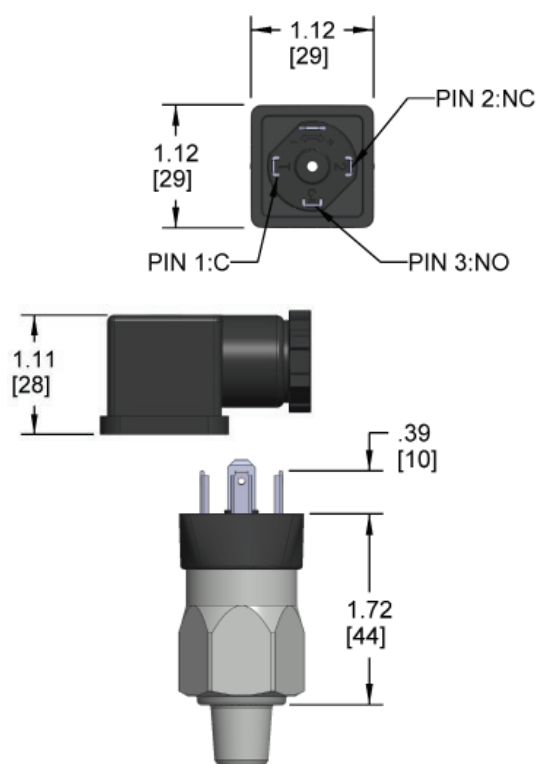
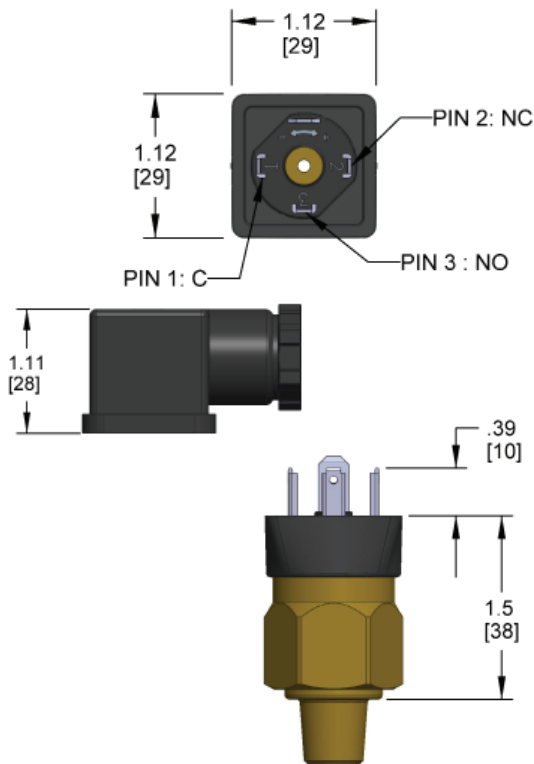
### Chart 2

| Series | Range       | Hysteresis  |
|--------|-------------|-------------|
| 200V   | 5 - 25 inHg | 4-6 inHg    |
| 200L   | 3 - 15      | 2-5 psi     |
|        | 5 - 30      | 3-7 psi     |
|        | 15 - 75     | 4-7 psi     |
|        | 50 - 150    | 7-15 psi    |
| 200H   | 10 - 85     | 1-10 psi    |
|        | 65 - 300    | 8-30 psi    |
|        | 125 - 600   | 20-80 psi   |
|        | 500 - 2500  | 70-300 psi  |
|        | 500 - 3500  | 75-300 psi  |
|        | 1000 - 6000 | 150-600 psi |

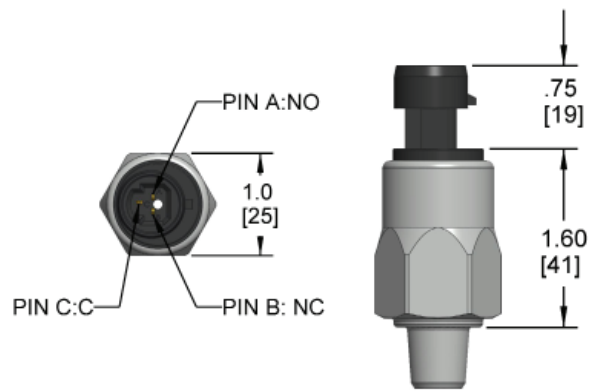
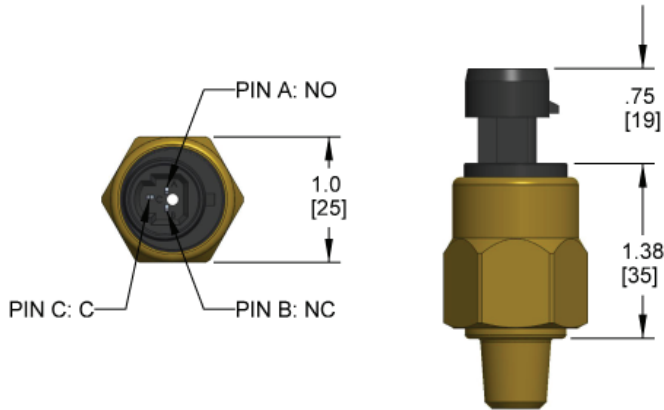
**200V & 200L Spade Terminals**                      **200H Spade Terminals**



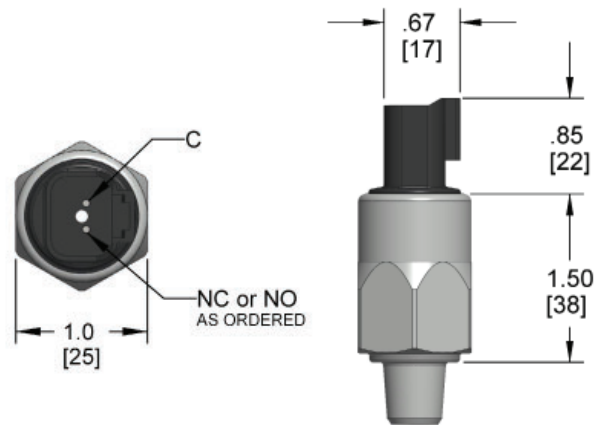
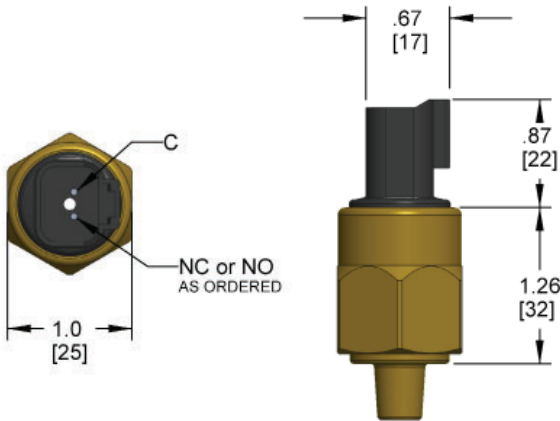
**200V & 200L DIN EN 175301-803 Form A**                      **200H DIN EN 175301-803 Form A**



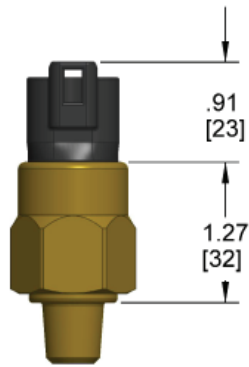
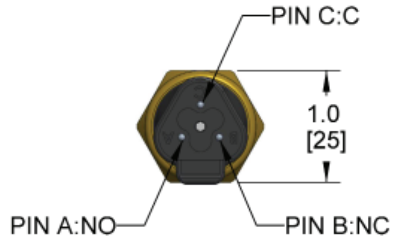
**200V & 200L Packard 3-Pin      200H Packard 3-Pin**



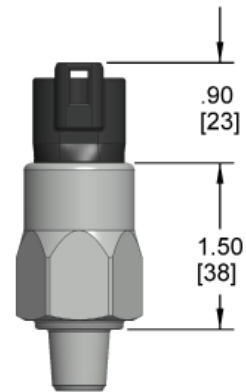
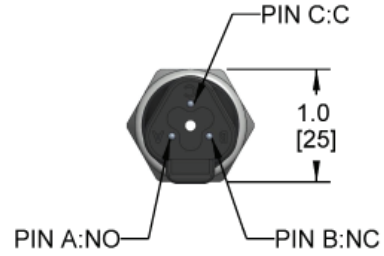
**200V & 200L 2-Pin Deutsch      200H 2-Pin Deutsch**



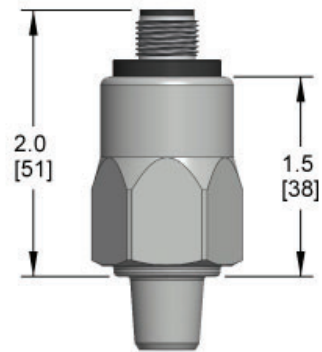
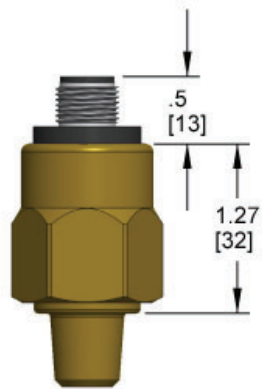
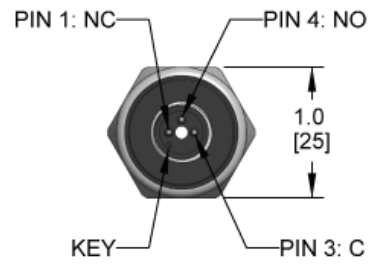
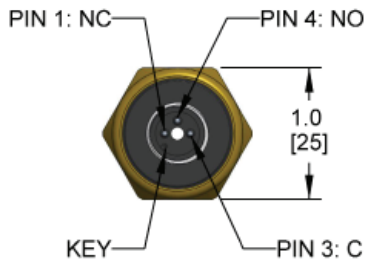
### 200V & 200L 3-Pin Deutsch



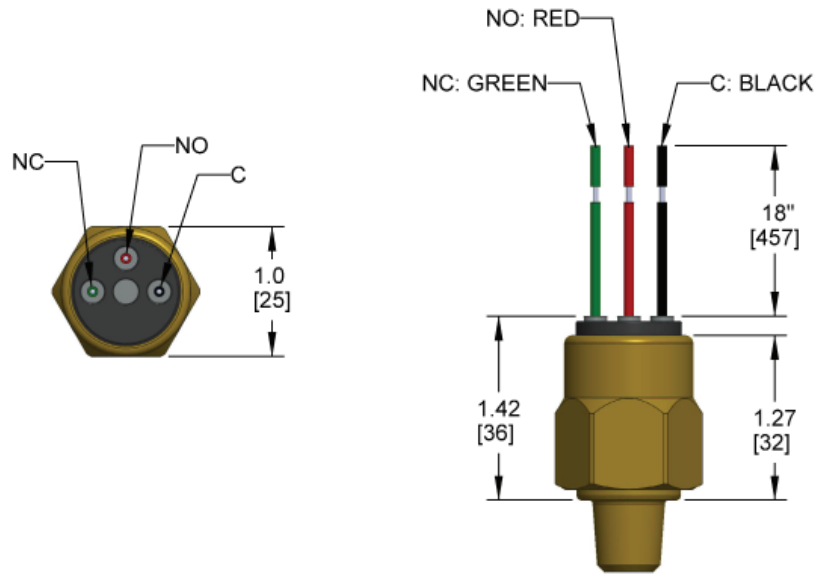
### 200H 3-Pin Deutsch



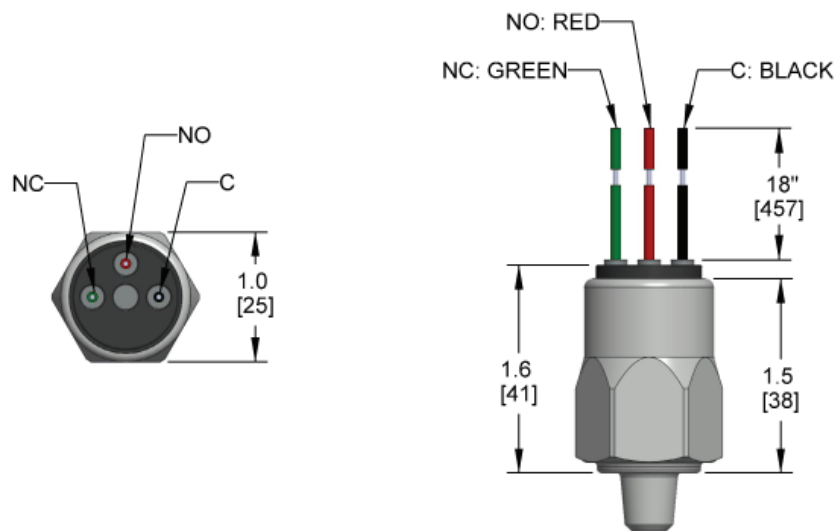
**200V & 200L M12 x 1 (3-Pin)                      200H M12 x 1 (3-Pin)**



## 200V & 200L 18" Flying Leads



## 200H 18" Flying Leads



**200V & 200 L Terminal Screws** **200H Terminal Screws**

