

# Mechanical Compact SPDT with Adjustable Hysteresis



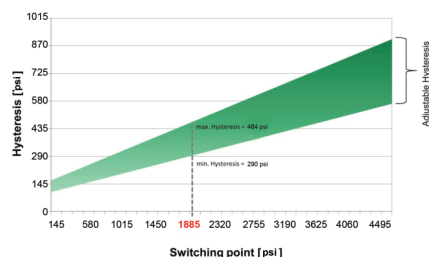
## 300 SERIES

- Switch adjustment ranges from vacuum through 4,600 psig depending on model
- Standard Zinc-nickel with Buna-N diaphragm wetted parts
- SPST or SPDT snap-action switch with solid Silver contacts
- CE compliant to suppress RFI, EMI and ESD
- RoHS compliant

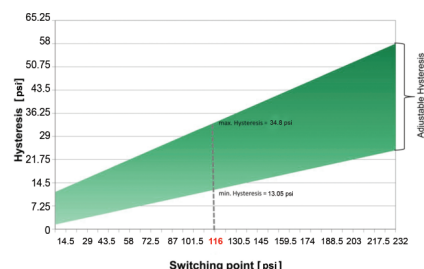
### APPLICATIONS

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

Adjustable Hysteresis (piston type)



Adjustable Hysteresis (membrane type)



### SPECIFICATIONS

#### Switching parameters

|                  |                                     |
|------------------|-------------------------------------|
| Function         | SPST or SPDT                        |
| Contact rating   | 6A @ 125/250 Vac<br>6A @ 12/24 Vdc  |
| Repeatability    | 2% of full set point range at 70 °F |
| Hysteresis       | Adjustable, see charts below        |
| Contact material | Solid Silver, self-cleaning         |
| Frequency        | Max. 100 cycles/min                 |

Switch type Snap action with adjustable hysteresis

Pressure ranges -5 inHg to -28 inHg (350 psig) through 450 psig to 4,600 psig (5,000 psig)

Service life >1,000,000 load cycles

Temperature ranges Media -4 °F to 176 °F (-20 °C to 80 °C)  
Ambient -4 °F to 176 °F (-20 °C to 80 °C)  
Storage -4 °F to 176 °F (-20 °C to 80 °C)

Proof pressure 870 psig or 5,000 psig depending on adjustment range

Measuring element Buna-N

Housing material Zinc-nickel plated Steel

Environmental rating IP65

Weight Approximately 0.2 lb.



**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

| ORDERING INFORMATION                                                                 |                                                     |                                                       |  |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--|
| <b>SERIES</b>                                                                        | <b>300V</b> 300 Vacuum Series                       | <b>300H</b> 300 High Pressure Series                  |  |
|                                                                                      | <b>300L</b> 300 Low Pressure Series                 |                                                       |  |
| <b>SWITCH FUNCTIONS</b>                                                              | <b>1</b> SPST, Normally open                        | <b>3</b> SPDT                                         |  |
|                                                                                      | <b>2</b> SPST, Normally closed                      |                                                       |  |
| <b>PROCESS CONNECTIONS</b>                                                           | <b>1</b> 1/8" NPT male                              | <b>33</b> G 1/8B                                      |  |
|                                                                                      | <b>2</b> 1/4" NPT male                              | <b>45</b> 7/16-20 SAE Male, Non-Adjustable            |  |
|                                                                                      | <b>10</b> G 1/4B                                    |                                                       |  |
| <b>300V VACUUM PRESSURE SWITCH<br/>ADJUSTMENT RANGES<br/>(Max. working pressure)</b> | <b>5/28-vac</b> -5 inHg to -28 inHg (350 psig)      |                                                       |  |
| <b>300L LOW PRESSURE SWITCH<br/>ADJUSTMENT RANGES<br/>(Max. working pressure)</b>    | <b>3/7</b> 3 psig to 7 psig (870 psig)              | <b>7/120</b> 7 psig to 120 psig (870 psig)            |  |
|                                                                                      | <b>3/15</b> 3 psig to 15 psig (870 psig)            | <b>15/200</b> 15 psig to 200 psig (870 psig)          |  |
|                                                                                      | <b>3/30</b> 3 psig to 30 psig (870 psig)            | <b>15/230</b> 15 psig to 230 psig (870 psig)          |  |
|                                                                                      | <b>7/70</b> 7 psig to 70 psig (870 psig)            | <b>30/290</b> 30 psig to 290 psig (870 psig)          |  |
| <b>300H HIGH PRESSURE SWITCH<br/>ADJUSTMENT RANGES<br/>(Max. working pressure)</b>   | <b>100/220</b> 100 psig to 220 psig (5,000 psig)    | <b>145/2320</b> 145 psig to 2,320 psig (5,000 psig)   |  |
|                                                                                      | <b>145/435</b> 145 psig to 435 psig (5,000 psig)    | <b>300/2900</b> 300 psig to 2,900 psig (5,000 psig)   |  |
|                                                                                      | <b>145/1160</b> 145 psig to 1,160 psig (5,000 psig) | <b>300/3600</b> 300 psig to 3,600 psig (5,000 psig)   |  |
|                                                                                      | <b>145/1750</b> 145 psig to 1,750 psig (5,000 psig) | <b>450/4600</b> 450 psig to 4,600 psig (5,000 psig)   |  |
| <b>ELECTRICAL CONNECTIONS†</b>                                                       | <b>1</b> 36" Cable attached to option 8             | <b>100</b> Deutsch 2-Pin Male (DT04-2P)*, **          |  |
|                                                                                      | <b>8</b> Hirschmann (DIN EN 175301-803 Form A)      | <b>101</b> Deutsch 3-Pin Male (DT04-3P)*              |  |
|                                                                                      | <b>25</b> M12 x 1 4-Pin                             | <b>103</b> Deutsch 2-Pin Female Socket (DT06-2S)*, ** |  |
|                                                                                      | <b>36</b> 3' Integral Cable                         | <b>104</b> Deutsch 3-Pin Female Socket (DT06-3S)*     |  |
|                                                                                      | <b>66</b> Deutsch Integral 2-Pin (DT04-2P)**        | <b>110</b> Weatherpack Tower, 3-Pin Female*           |  |
|                                                                                      | <b>96</b> Weatherpack Tower, 2-Pin Female*, **      | <b>111</b> Weatherpack Tower, 3-Pin Male*             |  |
|                                                                                      | <b>97</b> Weatherpack Tower, 2-Pin Male*, **        | <b>112</b> Weatherpack Shroud, 3-Pin Female*          |  |
|                                                                                      | <b>98</b> Weatherpack Shroud, 2-Pin Female*, **     | <b>113</b> Weatherpack Shroud, 3-Pin Male*            |  |
|                                                                                      | <b>99</b> Weatherpack Shroud, 2-Pin Male*, **       |                                                       |  |
| <b>OPTIONS***</b>                                                                    | <b>EP</b> EPDM Diaphragm (-10/250 °F)               | <b>VT</b> FKM Diaphragm (0/250 °F)                    |  |
|                                                                                      | <b>HNBR</b> Low Temp Nitrile (-40/110 °F)           | <b>SS</b> 316 SS Wetted Materials                     |  |

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

\* Options attached to 18" cable

\*\* For SPST only

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

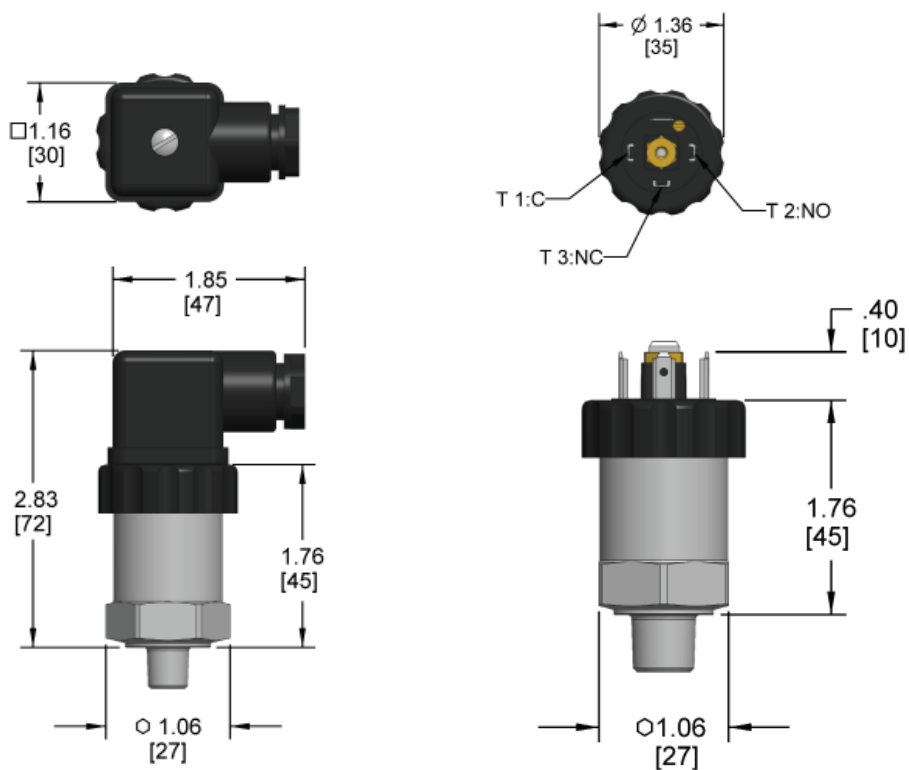
† Other electrical connections available, consult the factory

## EXAMPLE

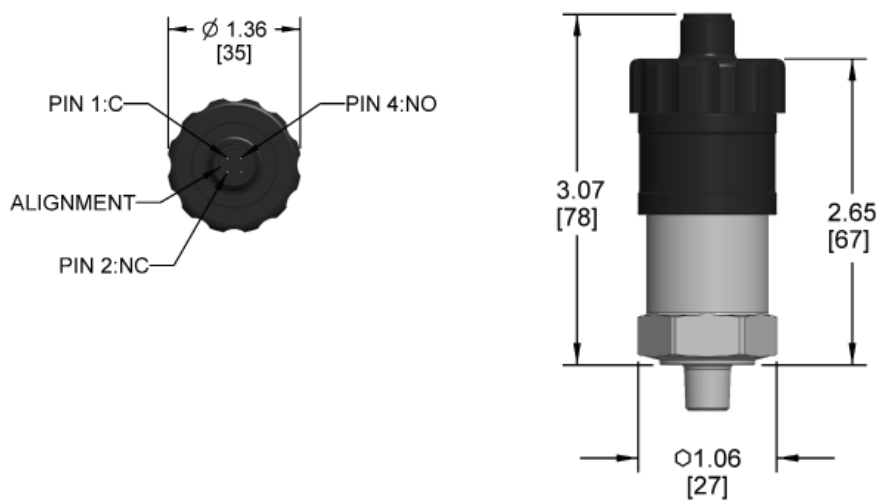
|                             |                                |          |          |                 |           |           |
|-----------------------------|--------------------------------|----------|----------|-----------------|-----------|-----------|
|                             | <b>300V</b>                    | <b>1</b> | <b>2</b> | <b>5/28-vac</b> | <b>25</b> | <b>EP</b> |
| Series .....                | 300 Vacuum Series              |          |          |                 |           |           |
| Switch function .....       | SPST, Normally open            |          |          |                 |           |           |
| Process connection .....    | 1/4" NPT Male                  |          |          |                 |           |           |
| Adjustable range .....      | -5 inHg to -28 inHg (350 psig) |          |          |                 |           |           |
| Electrical connection ..... | M12 x 1 4-Pin                  |          |          |                 |           |           |
| Option .....                | EPDM Diaphragm (-10/250 °F)    |          |          |                 |           |           |

# Dimensions

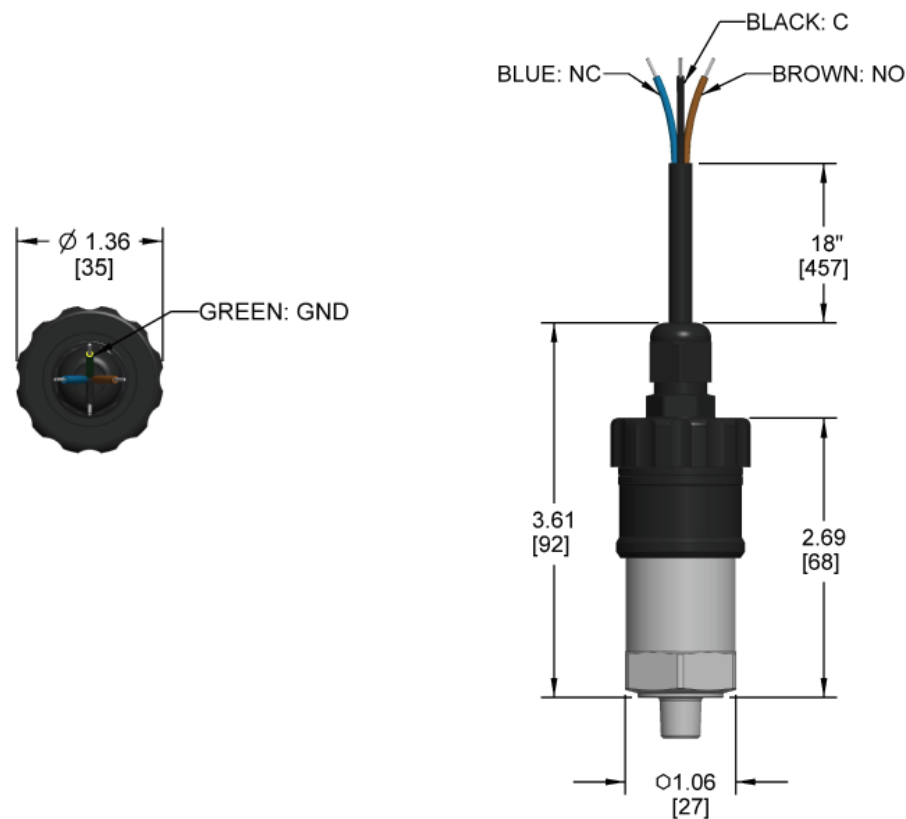
## Hirschmann (DIN EN 175301-803 Form A)



## M12 x 1 4-Pin



300H 3' Integral Cable



300H Deutsch Integral 2-Pin (DT04-2P)

