Mechanical Compact SPDT with Adjustable Hysteresis



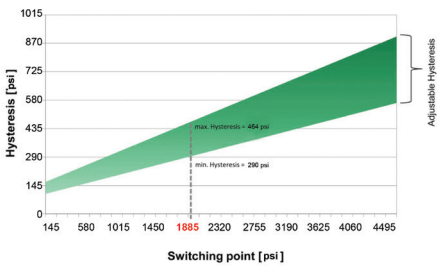
300 SERIES

- Switch adjustment ranges from vacuum through 4,600 psig depending on model
- Standard Zinc-nickel with NBR diaphragm wetted parts;
  Membrane type - NBR diaphragm
  Piston type - PTFE dynamic seal with NBR static o-ring
- SPST or SPDT snap-action switch with solid Silver contacts
- CE compliant to suppress RFI, EMI and ESD
- RoHS compliant

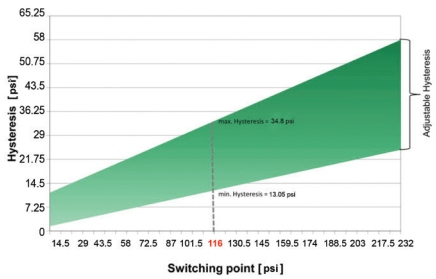
APPLICATIONS

- 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 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	NBR
Housing material	Zinc-nickel plated Steel
Environmental rating	IP65 - DIN EN 175301-803 Form A IP67 - All others
Weight	Approximately 0.2 lb.

⚠ **WARNING:** This product can expose you to chemicals including Lead and Nickel, which are 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

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ORDERING INFORMATION				
SERIES	**300V**	300 Vacuum Series	**300H**	300 High Pressure Series
	300L	300 Low Pressure Series		
SWITCH FUNCTIONS	**1**	SPST, Normally open	**3**	SPDT
	2	SPST, Normally closed		
PROCESS CONNECTIONS	**1**	1/8" NPT male	**33**	G 1/8B
	2	1/4" NPT male	**45**	7/16-20 SAE Male, Non-Adjustable
	10	G 1/4B		
300V VACUUM PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)	**5/28-vac**	-5 inHg to -28 inHg (350 psig)		
300L LOW PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)	**3/7**	3 psig to 7 psig (870 psig)	**7/120**	7 psig to 120 psig (870 psig)
	3/15	3 psig to 15 psig (870 psig)	**15/200**	15 psig to 200 psig (870 psig)
	3/30	3 psig to 30 psig (870 psig)	**15/230**	15 psig to 230 psig (870 psig)
	7/70	7 psig to 70 psig (870 psig)	**30/290**	30 psig to 290 psig (870 psig)
300H HIGH PRESSURE SWITCH ADJUSTMENT RANGES (Max. working pressure)	**100/220**	100 psig to 220 psig (5,000 psig)	**300/2900**	300 psig to 2,900 psig (5,000 psig)
	145/435	145 psig to 435 psig (5,000 psig)	**300/3600**	300 psig to 3,600 psig (5,000 psig)
	145/1160	145 psig to 1,160 psig (5,000 psig)	**450/4600**	450 psig to 4,600 psig (5,000 psig)
	145/1750	145 psig to 1,750 psig (5,000 psig)		
ELECTRICAL CONNECTIONS†	**1**	36" Cable attached to option 8	**100**	Deutsch 2-Pin Male (DT04-2P)*, **
	8	DIN EN 175301-803 Form A	**101**	Deutsch 3-Pin Male (DT04-3P)*
	25	M12 x 1 4-Pin	**103**	Deutsch 2-Pin Female Socket (DT06-2S)*, **
	36	3' Integral Cable	**104**	Deutsch 3-Pin Female Socket (DT06-3S)*
	66	Deutsch Integral 2-Pin (DT04-2P)**	**110**	Weatherpack Tower, 3-Pin Female*
	96	Weatherpack Tower, 2-Pin Female*, **	**111**	Weatherpack Tower, 3-Pin Male*
	97	Weatherpack Tower, 2-Pin Male*, **	**112**	Weatherpack Shroud, 3-Pin Female*
	98	Weatherpack Shroud, 2-Pin Female*, **	**113**	Weatherpack Shroud, 3-Pin Male*
	99	Weatherpack Shroud, 2-Pin Male*, **		
OPTIONS* **	**EP**	EPDM Diaphragm (-40/212 °F)	**SS**	Stainless Steel Wetted Materials
	HNBR	Low Temp Nitrile Diaphragm (-40/176 °F)	**VT**	FKM Diaphragm (0/250 °F)
	SP	Factory Adjusted Switch Point		

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**

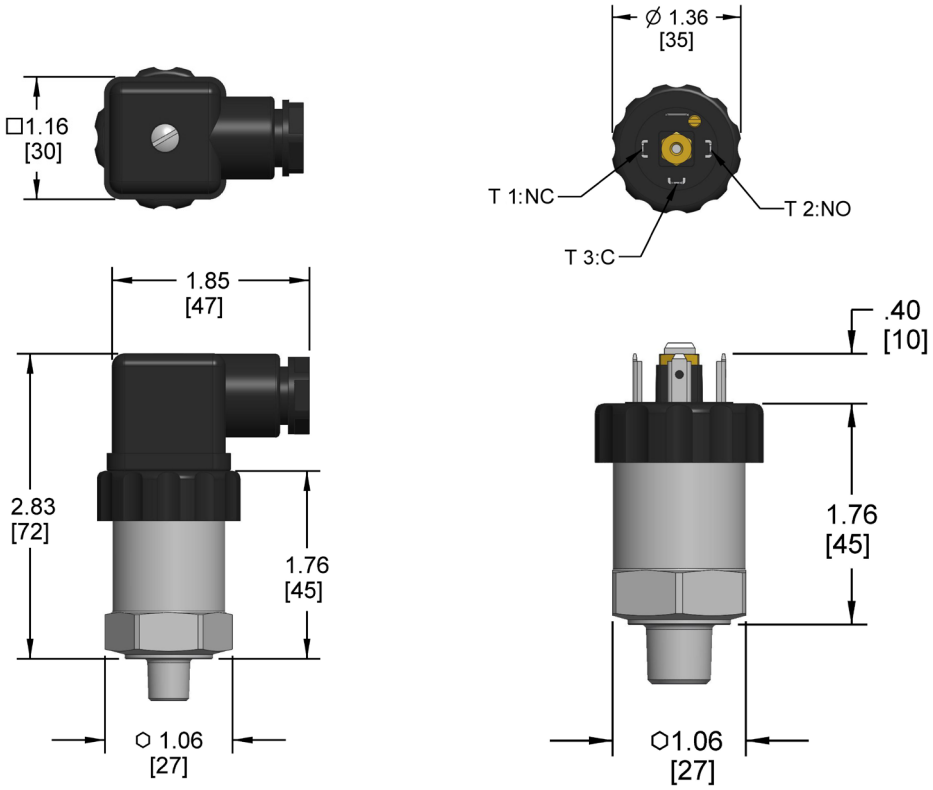
EXAMPLE

300V – 1 – 2 – 5/28-vac – 25 – EP

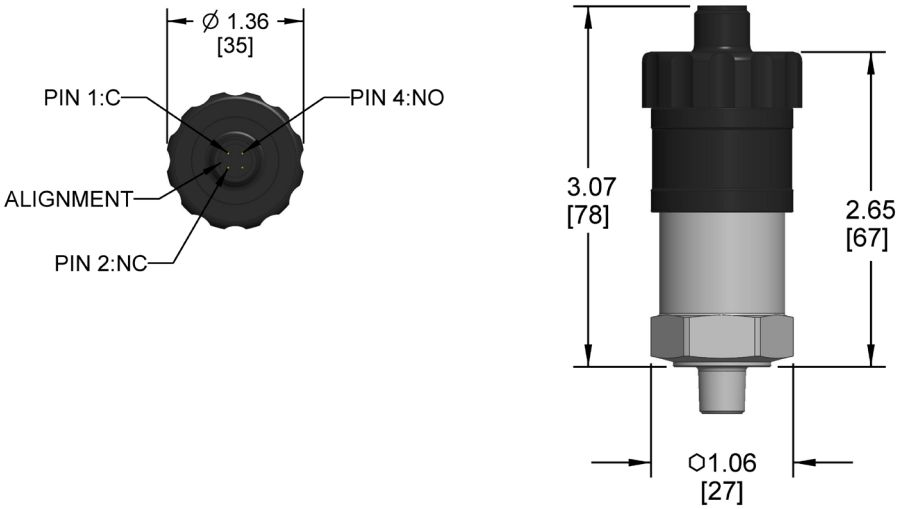
Series .....300 Vacuum Series
Switch function.....SPST, Normally open
Process connection .....1/4" NPT Male
Adjustable range.....-5 inHg to -28 inHg (350 psig)
Electrical connection .....M12 x 1 4-Pin
Option..... EPDM Diaphragm (-10/250 °F)

Dimensions

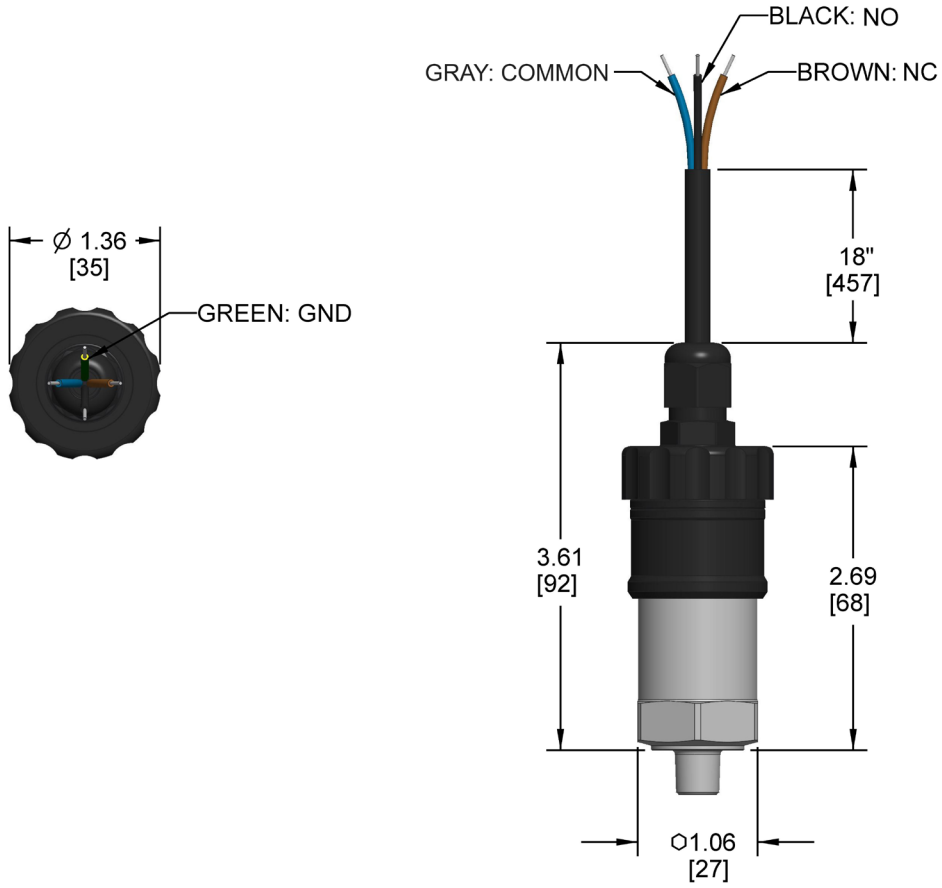
DIN EN 175301-803 Form A



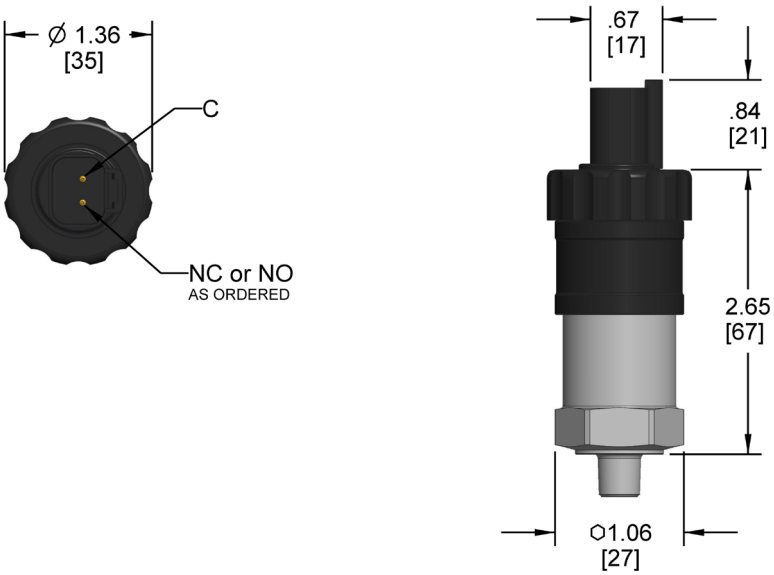
M12 x 1 4-Pin



300H 3' Integral Cable



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



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