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РЕЛЕ ДАВЛЕНИЯ

Технические характеристики на
серию DNS






DNS

Pressure and vacuum switches with stainless steel sensors (1.4571)

Pressure switches of the DNS series are suitable for monitoring and controlling pressures in chemical plants, process engineering and any situation where the pressure of aggressive liquids and gases must be monitored. All components of the sensor system are made made of high-quality stainless steel (1.4571) and welded using the latest methods without filler metals. The pressure sensor is gasket-free plasma-welded.

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DNS6-351

DNS/VNS

Pressure and vacuum switches with stainless steel sensors (1.4571)

Chemical version (switching housing with surface protection)

Pressure switches of the DNS series are suitable for monitoring and controlling pressures in chemical plants, process engineering and any situation where the pressure of aggressive

liquids and gases must be monitored. All components of the sensor system are made from high-quality stainless steel (1.4571) and welded using the latest methods without filler metals. The pressure sensor is gasket free plasma welded.



SIL 2 according IEC 61508-2

Technical data

Pressure connection	External thread G 1/2" (pressure gauge connection) according to DIN 16 288 and internal thread G 1/4" according to ISO 228 Part 1
Switching device	Robust housing (200) made of seawater-resistant diecast aluminium GD Al Si 12 IP 65, in vertical position
Protection class	IP 65, in vertical position
Pressure sensor materials	Pressure bellows and all parts in contact with medium X 6 Cr Ni Mo Ti 17122 Material no. 1.4571
Mounting position	Vertically upright and horizontal
Max. ambient temperature at switching device	-25 to +70 °C
Max. medium temperature	The maximum medium temperature at the pressure sensor must not exceed the permitted ambient temperature at the switching device. Temperatures may reach 85 °C for short periods. Higher medium temperatures are possible provided the upper limit at the switching device is ensured by suitable measures (e.g. siphon).
Contact arrangement	Single-pole changeover switch
Plastic coating	The diecast aluminium housing in GD Al Si is chromated and stove-enamelled with resistant plastic. Corrosion tests with 3% saline solution and 30 temperature changes from +10 to +80°C showed no surface changes after 20 days

Type	Setting range	Hysteresis (mean value)	Max. permissible pressure	Dimensioned drawing
Hysteresis not adjustable				page 21 + 22
VNS301-351	-250...+100 mbar	45 mbar	3 bar	
VNS111-351	-1*...+0,1 bar	50 mbar	6 bar	
DNS025-351	0,04...0,25 bar	30 mbar	6 bar	2 + 15
DNS06-351	0,1...0,6 bar	40 mbar	6 bar	
DNS1-351	0,2...1,6 bar	60 mbar	6 bar	
DNS3-351	0,2...2,5 bar	0,1 bar	16 bar	2 + 18
DNS6-351	0,5...6 bar	0,15 bar	16 bar	
DNS10-351	1...10 bar	0,3 bar	16 bar	2 + 16
DNS16-351	3...16 bar	0,5 bar	25 bar	

* At very high vacuums, close to the theoretical maximum of -1 bar, the switch may not be usable in view of the special conditions of vacuum engineering. However, the pressure switch itself will not be damaged at maximum vacuum.

Calibration

The **DNS** and **VNS** series are calibrated for falling pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at falling pressure. The reset point is higher by the amount of the switching differential. (See also page 23, 1. Calibration at lower switching point).

Switching capacity	250 VAC		250 VDC	
	(ohm)	(ind)	(ohm)	(ohm)
Normal	8 A	5 A	0.3 A	8 A



DNS3-201

DNS

Pressure switches and vacuum switches with stainless steel sensors (1.4571)

Pressure switches of the DNS series are suitable for monitoring and controlling pressures in chemical plants, process engineering and any situation where the pressure of aggressive liquids and gases must be monitored.

All components of the sensor system are made of high-quality stainless steel (1.4571) and welded using the latest methods without filler metals. The pressure sensor is gasket-free plasma-welded.

SIL 2 according IEC 61508-2



Technical data

Pressure connection

External thread G 1/2 (pressure gauge connection) according to DIN 16 288 and internal thread G 1/4 according to ISO 228 Part 1.

Switching device

Robust housing (200) made of seawater-resistant diecast aluminium GD Al Si 12.

Degree of protection

IP 54, in vertical position.

Pressure sensor materials

Pressure bellows and all parts in contact with medium. X 6 Cr Ni Mo Ti 17122 Material no. 1.4571

Mounting position

Vertically upright and horizontal.

Max. ambient temperature at switching device

-25...+70 °C.

Max. medium temperature

The maximum medium temperature at the pressure sensor must not exceed the permitted ambient temperature at the switching device. Temperatures may reach 85°C for short periods.

Higher medium temperatures are possible provided the above limit values for the switching device are ensured by suitable measures (e.g. siphon).

Mounting

Directly on the pressure line (pressure gaugeconnection) or on a flat surface with two 4 mm Ø screws.

Switching pressure

Adjustable from outside with screwdriver.

Switching differential

For values see Product Summary.

Contact arrangement

Single-pole changeover switch.

Switching capacity	250 VAC		250 VDC	24 VDC
	(ohm)	(ind)	(ohm)	(ohm)
Normal	8 A	5 A	0.3 A	8 A

Plastic coating

The diecast aluminium housing in GD Al Si is chromated and stove-enamelled with resistant plastic. Corrosion tests with 3% saline solution and 30 temperature changes from +10 to +80°C showed no surface changes after 20 days.

Product Summary

Type	Setting range	Switching differential (mean values)	Max. permissible pressure	Dimensioned drawing
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Switching differential not adjustable

DNS025-201	0.04...0.25 bar	30 mbar	6 bar	1 + 15
DNS06-201	0.1...0.6 bar	40 mbar	6 bar	
DNS1-201	0.2...1.6 bar	60 mbar	6 bar	
DNS3-201	0.2...2.5 bar	0.1 bar	16 bar	
DNS6-201	0.5...6 bar	0.15 bar	16 bar	1 + 18
DNS10-201	1...10 bar	0.3 bar	16 bar	
DNS16-201	3...16 bar	0.5 bar	25 bar	1 + 16

Switching differential adjustable

VNS301-203	-250...+100 mbar	70-300 mbar	3 bar	
VNS111-203	-1*...+0.1 bar	90-550 mbar	6 bar	
DNS025-203	0.04...0.25 bar	60-300 mbar	6 bar	1 + 15
DNS06-203	0.1...0.6 bar	80-400 mbar	6 bar	
DNS1-203	0.2...1.6 bar	100-600 mbar	6 bar	
DNS3-203	0.2...2.5 bar	0.15-1.5 bar	16 bar	
DNS6-203	0.5...6 bar	0.25-2.0 bar	16 bar	1 + 18
DNS10-203	1...10 bar	0.45-2.5 bar	16 bar	
DNS16-203	3...16 bar	0.8-3.5 bar	25 bar	1 + 16

* At very high vacuums, close to the theoretical maximum of -1 bar, the switch may not be usable in view of the special conditions of vacuum engineering. However, the pressure switch itself will not be damaged at maximum vacuum.

Calibration

The DNS and VNS series are calibrated for falling pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at falling pressure. The reset point is higher by the amount of the switching differential. (See also page 23, 1. Calibration at lower switching point).

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