Series SWDN electronic vacuum/pressure switches

With digital display High precision, easy to use



- » Compact and lightweight
- » Digital indicator: precision electronic insertion with two separated switch outputs
- » Switching point and hysteresis can be programmed with a membrane keypad.

APPLICATIONS:

- electronic vacuum/pressure switch for safety monitoring, optimization of cycle times or energy saving devices;
- it can be installed directly on the gripping point of a handling system;
- setting of the limit vacuum value and continuous vacuum control;
- perfectly suitable for customer needs.

ELECTRIC CONNECTION:

the device is available with hardwired cable of 2 meters or can be supplied with M8 connector.

Accessories and extensions have to be ordered separately. Codes can be found at the end of this section.

GENERAL DATA

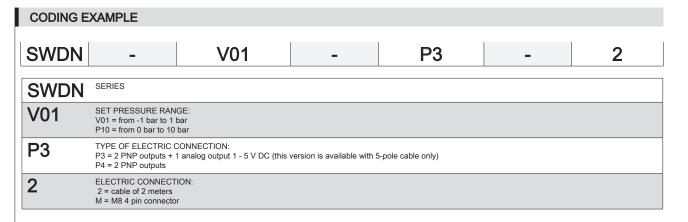
Type of pressure/vacuum switch electronic with polycarbonate housing

Port with external thread G1/8 and internal thread M5

Display 3 digit display with membrane keypad for the values set up

LED integrated LED indicators for switching state

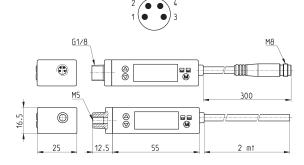
Electric connection with M8 4-pole connector or pre-wired cable of 2 meters





Vacuum/Pressure switch Series SWDN

1 = brown (+)
2 = white (OUT 2)
3 = blue (-)
4 = black (OUT 1)
Analogic output = orange





Mod.

SWDN-V01-P3-2

SWDN-V01-P4-2

SWDN-V01-P4-M

SWDN-P10-P3-2 SWDN-P10-P4-2

SWDN-P10-P4-M

TECHNICAL DATA

CHARACTERISTICS				
		SWDN-V01 SWDN-P10		
Botod proceure	rango (act value)	-1 ÷ 1 bar 0 ÷ 10 bar		
Rated pressure range (set-value) Setting pressure range (it can be displayed on the screen)		-1 ÷ 1 bar -1 ÷ 10 bar		
Withstand (Maximum) pressure		3 bar 15 bar		
Fluid		Air, non-corrosive gases, incombustible gases		
Set pressure resolution: kPa		0,1 -		
Cot procedio rec	MPa	- 0,001		
	Kgf/cm²	0,001 0,01		
	bar Psi	0,001 0,01 0.01 0.1		
	InHg	0,1 -		
	mmHg	1 -		
	mmH2O	0,1 -		
Power supply voltage		12-24 VDC ± 10%, ripple (P-P) 10% or less		
Current consumption		≤ 55mA		
PNP switch output		2 outputs with open collector max. load current of 80mA		
		max. power supply voltage of 24VDC		
		residual voltage ≤ 1V (with load current of 80mA)		
Repeatibility (switch output)		≤ ± 0,2% F.S. ± 1 digit		
Analog output (where foreseen)		1 - 5V \pm 5% F.S. 1 - 5V \pm 2,5% F.S. (within the linear range: $\leq \pm$ 1% F.S.)		
Hysteresis:	Hysteresis mode	Adjustable		
Window comparator mode		Fixed (3 digits)		
Response time Output short circuit protection		≤ 2,5ms (chattering-proof function: 24ms, 192ms and 768ms) YES		
7 segment LED display		3 ½ digit (sampling rate of 5 times/sec)		
Indicator accuracy		≤ ± 2% F.S. ± 1 digit (ambient temperature: 25 ± 3°C)		
Indicator		green LED (OUT1), red LED (OUT2)		
Environment:	Protection class	IP40		
Liviloimona				
Temperature		Operation: 0 ÷ 50°C Storage: -20 ÷ 60°C		
		(without condensation or freezing)		
	Deletive houseldt.	Occasion (Otano and a constitution)		
	Relative humidity	Operation/Storage: 35 ÷ 85% (without condensation)		
		·		
	Withstand (Max.) voltage	1000 VAC in 1 min (between case and lead wire)		
	Insulation resistance	$50 \text{M}\Omega$ min. (at 500VDC between case and lead wire)		
	Vibration	Total amplitude 1.5 mm		
		10Hz-55Hz-10Hz scan for 1 minute		
		2 hours each direction of X, Y and Z		
	Shock	980 m/s² (100G)		
		3 times each direction of X, Y and Z		
Changes due to temperature		≤ ± 2% F.S. of detected pressure (25°C) within the operating temperature range		
Port size		G1/8 - M5		
Lead wire		Oil-resistance cable (0,15 mm²)		
Weight		About 67 g for the version with 2-meter lead wire About 35 g for the version with male connector		

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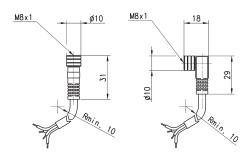




Circular M8 4-pole connectors, Female

Protection class: IP65

Materials: PU non shielded cable





Mod.	Type of connector	Cable length (m)
CS-DF04EG-E200	straight	2
CS-DF04EG-E500	straight	5
CS-DR04EG-E200	90°	2
CS-DR04EG-E500	90°	5