

Series SWCN electronic vacuum/pressure switches

CONTROL > Series SWCN electronic vacuum/pressure switches

With digital display High precision, easy to use



- » Compact and lightweight
- » Digital indicator: precised electronic insertion with two separated switch outputs
- » Switching point and hysteresis can be programmed with a membrane keypad
- » Upper and lower limit values can be programmed through two PNP switch outputs

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

Port Display LED Electric connection

Type of pressure/vacuum switch electronic with polycarbonate housing with external thread G1/8 and internal thread M5 3 digit display with membrane keypad for the values set up integrated LED indicators for switching state with M8 4-pole connector or pre-wired cable of 2 meters

CODING EXAMPLE

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SET PRESSURE RANGE: V01 = from -1 bar to 1 bar P10 = from 0 bar to 10 bar

ELECTRIC CONNECTION:

2 = cable of 2 meters M = M8 4 pin connector

SERIES

V01

TYPE OF ELECTRIC CONNECTION: P3 = 2 PNP outputs + 1 analog output 1 - 5 V DC (this version is available with 5-pole cable only) P4 = 2 PNP outputs

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V01

P3

2

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P3

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	Vacuum/Pressure switch Series SWCN 1 = brown (+) 2 = white (OUT 2) 3 = blue (-) 4 = black (OUT 1)		
Mod. SWCN-V01-P3-2 SWCN-V01-P4-2 SWCN-V01-P4-M SWCN-P10-P3-2 SWCN-P10-P4-2			

SWCN-P10-P4-M

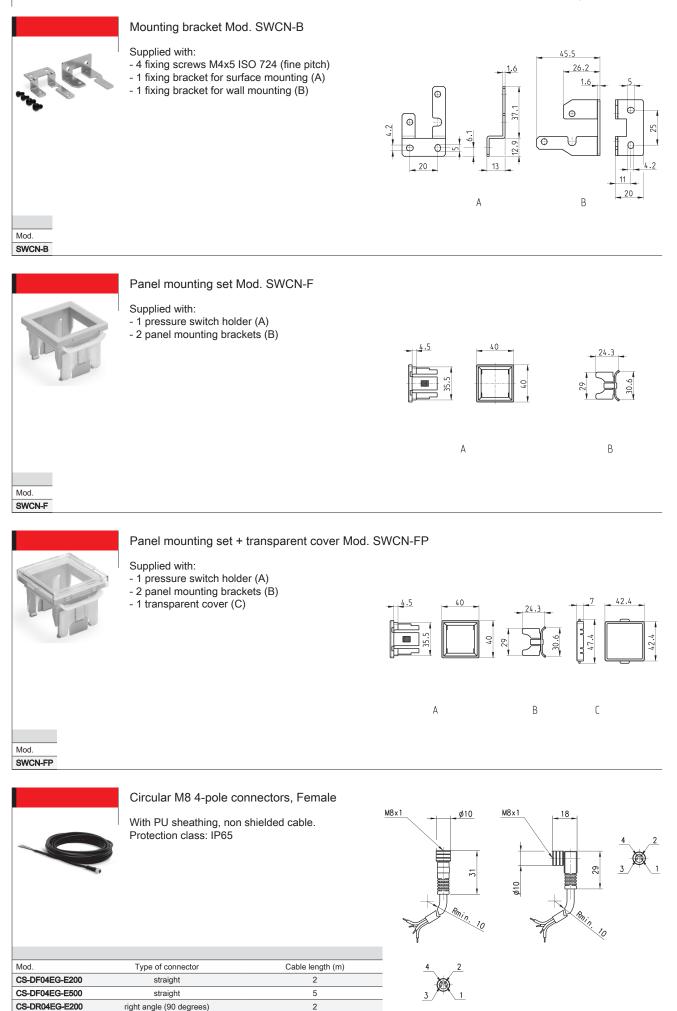
CHARACTERISTICS

			SWCN-V01	SWCN-P10	
Rated pressure range (set-value)		-1 ÷ 1 bar	0 ÷ 10 bar		
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 gase	es, incombustible gases	
Set pressure res	solution:	kPa MPa Kgf/cm ² bar Psi InHg mmHg mmH2O	0,1 - 0,001 0,001 0,01 0,1 1 0,1	0,001 0,01 0,01 0,1 - -	
Power supply vo	ltage		12-24 VDC ± 10%, rip	pple (P-P) 10% or less	
Current consum	-		≤ 55		
PNP switch output Repeatibility (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) ≤ ± 0,2% F.S. ± 1 digit			
Analog output (where foreseen)		1 - 5V ± 5% F.S. 1 - 5V ± 2,5% F.S. ((within the linearity range: ≤ ± 1% F.S.)			
Hysteresis: Hysteresis mode Window comparator mode			Adjustable Fixed (3 digits)		
Response time		≤ 2,5ms (chattering-proof function: 24ms, 192ms and 768ms)			
Output short circuit protection		YES			
7 segment LED display		3 1/2 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		IP	65	
	Temperature		Storage: -	: 0 + 50°C 20 + 60°C iation or freezing)	
	Relative humidity		Operation/Storage: 35 + 85% (without condensation)		
	Withstand (Max.) voltage		1000 VAC in 1 min ((between case and lead wire)		
	Insulation resistance		$50 M\Omega$ min. (at 500VDC be	tween case and lead wire)	
	Vibration		10Hz-55Hz-10Hz	ude 1.5 mm scan for 1 minute tion of X, Y and Z	
	Shock			² (100G) ction of X, Y and Z	
Changes due to temperature		\leq ± 2% F.S. of detected pressure (25°C) within the operating temperature range			
			G1/8	- M5	
Port size		Lead wire		Oil-resistance cable(0,15 mm ²)	
			Oil-resistance o	cable(0,15 mm ²)	



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Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

right angle (90 degrees)

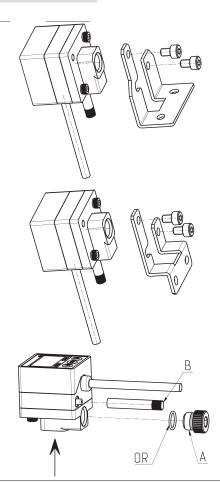
CS-DR04EG-E500



Example of mounting with bracket Mod. SWCN-B and standard accessories

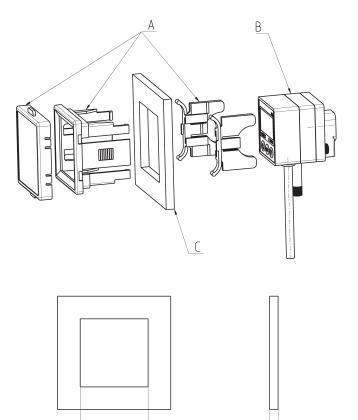
A: ADDITIONAL POWER SUPPLY In case of use, please unscrew plug A from one side and mount it on the other one.

B: Use of the AIR FILTER TUBE to reach the IP 65 protection class.



Example of mounting with panel mounting set Mod. SWCN-F

- A = PANEL MOUNTING SET MOD. SWCN-F B = PRESSURE SWITCH MOD. SWCN-...
- C = PANEL



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Max 4.5