## Pressure switches, Transducers and Pressure Indicators

Series PM: adjustable-diaphragm pressure switches, with setting visual scale, with exchange contacts Series TRP: electro-pneumatic transducers

Series 2950: pressure indicators, ports M5



Series PM diaphragm pressure switches are available with NC (normally closed) contacts and with NO (normally open) contacts.

Series PM681 pressure switches with setting visual scale comply with EN60730 standards and are suitable for signaliing pressure through a normally closed Reed contact.

A regulating screw, which can be adjusted using a small screwdriver, allows the switch to be set to the required pressure.

The calibrated diaphragm enables an electrical signal to be generated or inhibited depending on the pressure set.

#### **GENERAL DATA**

Construction	with adjustable diaphragm
Ports	R1/8, G1/4 (Serie PM) tube 4/2 (Series TRP) M5 (Series 2950)
Mounting	using thread in body
Max. nr. of pulses per 1'	200
Pressure	1 ÷ 10 bar max.
Operating temperature	-5°C ÷ +60°C
Max. power	100 VA
Voltage	220 V
Isolation voltage	1500 V
Max current	0.5 A
Pressure switches protection class	IP40 (Mod. PM681-1, PM681-3)

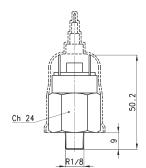
IP65 (Mod. PM11-SC)

2



#### Series PM adjustable-diaphragm pressure switches

Supplied with a rubber cap providing protection class IP54.



PMNC	PMNC
<b>-</b>	<b>^</b>

Mod.	Function	Max Voltage	Max Power	Service Type	Insulation voltage	Symbol
PM11-NC	NC = normally closed	48 V AC DC	24 VA	Heavy	500 V	PMNC
PM11-NA	NA = normally open	48 V AC DC	24 VA	Heavy	500 V	PMNO

PMNC = normally closed PMNO = normally open



#### Series PM681-... - pressure switches with setting visual scale

In compliance with EN60730 standard

Protection class IP40

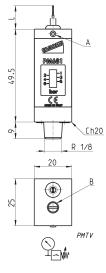
Electric connection: PVC cable 2 x 0.22 mm

Electric contact: Reed SPST NO

Body in anodized aluminium and threaded fitting in

brass

Hysteresis: 0.8 bar max



Mod.	L	Max switch voltage	Max switch current	Max switch capacity	Max fluid temperature	Max pressure	Setting range	Weight
PM681-1	1 m	48 V	0.5 A	10 W	60°C	20 bar	1 ÷ 6 bar	95 g
PM681-3	3 m	48 V	0.5 A	10 W	60°C	20 bar	1 ÷ 6 bar	95 g

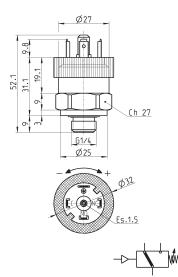
A = SETTING GRAIN LOCKING

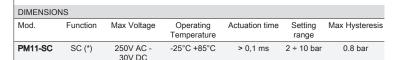
B = ADJUSTMENT SCREW



#### Pressure switch with exchange contacts Mod. PM11-SC

Protection class IP65 (with connector Mod. 124-830)





(\*) SC = exchange contacts

PMSC

CONTROL



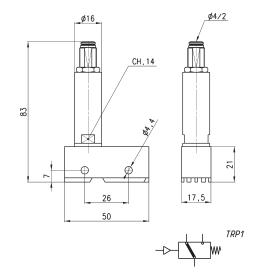


#### Electro-pneumatic transducer Series TRP

Series TRP electro-pneumatic transducer is particularly suitable to convert a pneumatic signal into an electrical signal.

The contacts are NC (normally closed) or NO (normally open), thus making it possible to generate or eliminate current when the pneumatic signal is present.

Minimum operating pressure 2,5 bar.

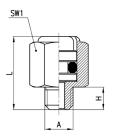


Mod.



#### Pressure indicators Series 2950

The pressure indicator Mod. 2950-M5 is passive element (no spring, red colour). It is useful for detecting pressure manually without having to remove the connections.



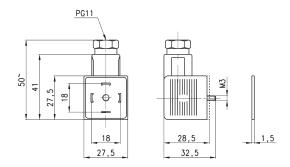


SEG1

2950 M5	M5	4	13.5	8
Mod.	Α	Н	L	SW1
DIMENSIONS				



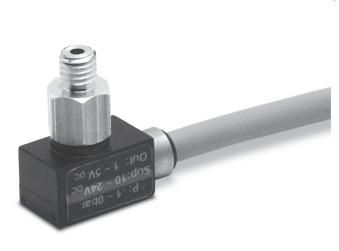
#### 3-pole connector Mod. 124-830 for pressure switch Mod. PM11-SC



Mod.	description	colour	working voltage	cable holding	tightening torque
124-830	three-pole connector without electronics	black	-	PG9/PG11	0.5 Nm
124-830EX	three-pole ATEX connector without electronics	black	-	PG9/PG11	0.5 Nm

### Series SWM electronic miniature vacuum switches

These vacuum switches are used in measuring ranges between -1 and 0 bar.



- » Small dimension and reduced weight
- » Available with analog or digital output
- » High measuring accuracy
- » Possibility to connect with M5 thread or 6 mm plug-in tubes

#### Applications:

- Measurement of vacuum values close to the suction pad
- Electric output signal

These vacuum switches can be mounted directly at the gripping point of a handling system, also when subject to high acceleration forces.

#### **GENERAL DATA**

Type of vacuum switch electronic, mini

sensor and connection

Connection - M5 thread

- plug-in tubes

Output signal

analog or digital

CODIN	NG EXAMPLE				
SW	M	_	VA0	_	Т6
OVV	IVI	_	VAU	_	10
SW	SERIES SW = transducer				

SW SERIES SW = transducer

VERSION m = Micro

VA0 OUTPUT SIGNAL

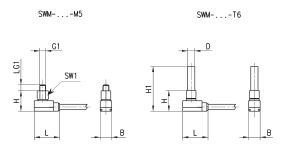
OUTPUT SIGNAL VA0 = analog output VD6 = digital output with switching point set to -600 mbar

T 6 CONNECTION
T6 = with diam. 6 mm plung in tube
M5 = male thread M5



#### Vacuum switches Series SWM





DIMENSIONS								
Mod.	В	D	G1	Н	H1	L	LG1	SW1
SWM-VA0-M5	9,5	-	M5	16,9	-	21	5	8
SWM-VA0-T6	9,5	6		17,2	37,2	21	-	-
SWM-VD6-M5	9,5	-	M5	16,9	-	21	5	8
SWM-VD6-T6	9,5	6		17,2	37,2	21	-	-

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#### TECHNICAL DATA

Mod.	SWM-VA0-M5	SWM-VA0-T6	SWM-VD6-M5	SWM-VD6-T6
Fluid	Non-aggressive gas, dry air, without lubrication.			
Work area	-1 ÷ 0 bar			
Max overpressure [bar]	5	5	5	5
Precision	± 1% work area			
Hysteresis	-	-	Fixed: ca.20 mbar	Fixed: ca.20 mbar
Output signal	Analogic: 15 V	Analogic: 15 V	Digital	Digital
Max output current [mA]	-	-	60	60
Switching point	-	-	-600 mbar	-600 mbar
Signalling	-	-	LED	LED
Electric connection	Cable	Cable	Cable	Cable
Voltage	10-24V-DC	10-24V-DC	10-24V-DC	10-24V-DC
IP Protection	IP 40	IP 40	IP 40	IP 40
Temperature effect	± 3% measurement range			
Operating temperature	0°C ÷ 50 °C			
Weight [g]	75	75	75	75

### Series SWE electronic vacuum/pressure switches

Running out of stock

These vacuum sensors are available with analog and digital output.



- » Electronically precise measuring
- » Switching point and adjustable hysteresis
- » Analog and digital output

#### Applications:

universal electronic vacuum/pressure switch for safety monitoring, optimization of the cycle time or energy saving devices.

Thanks to the switching point and the adjustable hysteresis, this electronic vacuum/pressure switch is able to satisfy the user's needs.

Analog and digital output: adjustable vacuum limit value and continuous vacuum monitoring.

#### Electric connection:

- This device functions correctly with a connector Mod. CS-DF04EG-E500 or CS-DR04EG- E500 which should be ordered separately.

#### **GENERAL DATA**

Type of vacuum/pressure switch electronic with polycarbonate housing with G1/8 male thread and M5 female thread

Switching point and hysteresis adjustable through regulation screws

LED integrated for visual indication of the switch state

Electric connection supply voltage via 4-pin M8 connector 2

# CODING EXAMPLE SW E - V00 - P

SW SERIES
SW = transducer

E VERSION
E = ELECTRONIC

V00 MEASUREMENT RANGE
V00 = from -1 to 0 bar
U10 = from -1 to 10 bar (for version E only)

P POLARITY P = PNP

A

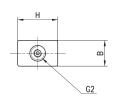
PNEUMATIC CONNECTION
A = external G1/8 male thread and internal M5 female thread

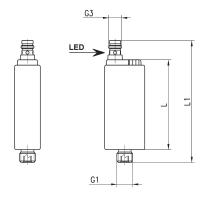


#### Vacuum / Pressure switch Series SWE

Delivered complete with screwdriver and accessories (screw, seals and tube adaptor) needed for IP65 class.









DIMENSIONS							
Mod.	В	G1	G2	G3	Н	L	L1
SWE-V00-PA	15,7	G1/8	M5	M8	19,7	44	62
SWE-U10-PA	15,7	G1/8	M5	M8	19,7	44	62

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#### TECHNICAL DATA

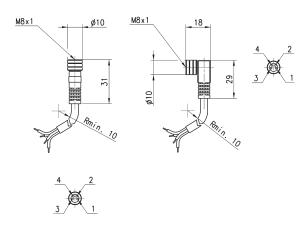
SWE-V00 PA	SWE-U10-PA
Non-aggressive gas, dry air, without lubrication	Non-aggressive gas, dry air, without lubrication
-1 ÷ 0 bar	-1 ÷ 10 bar
5	16
± 1% measurement range	± 1% measurement range
Settable: from 3 to 25 % set value.	Settable: from 3 to 25 % set value.
1 Analogic(15 V) and 1 digital settable.	1 Analogic (15 V) ed 1 digital settable.
125	125
5	5
LED	LED
Connector M8 4 pins	Connector M8 4 pins
G1/8 male and M5 female	G1/8 male and M5 female
10.8 - 30 V - DC	10.8 - 30 V - DC
30	30
IP 40/65 (with flexible cable)	IP 40/65 (with flexible cable)
± 3% measurement range	± 3% measurement range
0°C ÷ 50°C	0°C ÷ 50°C
30	30
	Non-aggressive gas, dry air, without lubrication  -1 ÷ 0 bar  5  ± 1% measurement range  Settable: from 3 to 25 % set value.  1 Analogic(15 V) and 1 digital settable.  125  5  LED  Connector M8 4 pins  G1/8 male and M5 female  10.8 - 30 V - DC  30  IP 40/65 (with flexible cable)  ± 3% measurement range  0°C + 50°C



#### Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65





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

# Series SWD electronic vacuum/pressure switches

Running out of stock

With digital display High precision, easy to use.



- » Compact and lightweight.
- » Digital display: electronically precise switching with two separate switch outputs
- » Switching point and hysteris programmable with the key pad.
- » Two separately programmable digital outputs allow to set the upper and lower limit value.
- » Special functions programmable: further adaption is possible.

#### 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;
- user friendly and suitable for user's requirements.

#### Electric connections:

- This device operates correctly with a connector Mod. CS-DF04EG-E500 which should be ordered separately. Further details at the end of this section.

#### **GENERAL DATA**

Type of vacuum/pressure switch electronic with polycarbonate housing

Connection - vacuum connection G1/8 male thread and M5 female thread

- pressure connection G1/8 male thread and M5 female

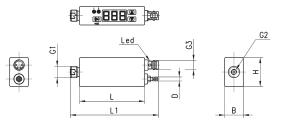
**Display** 3 digit display pad to regulate setting point **LED** integrated for the indication of switching state

Electric connection with 4-pole M8 connector

CODIN	NG EXAMPLE					
SW	D	-	V00	-	Р	Α
SW	SERIES SW = transducer					
D	VERSION D = electronic with digital of	display				
V00	MEASURING RANGE V00 = from -1 to 0 bar P10 = from 0 to 10 bar					
Р	POLARITY P = PNP					
Α	PNEUMATIC CONNECTION A = G1/8 male thread and					

#### Vacuum/Pressure switch Series SWD





DIMENSIONS								
Mod.	В	D	G1	G2	G3	Н	L	L1
SWD-V00-PA	16	-	G1/8	M5	M8	24,7	58,5	75,5
SWD-P10-PA	16	3,4	G1/8	M5	M8	24,7	58,5	75,5

#### TECHNICAL DATA

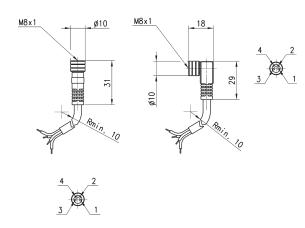
Mod.	SWD-V00 PA	SWD-P10-PA
Fluid	Non-aggressive gas, dry air, without lubrication.	Non-aggressive gas, dry air, without lubrication.
Measurement range	-1 ÷ 0 bar -1 ÷ 10 bar	
Max overpressure [bar]	5	16
Precision	± 1% measurement range	± 1% measurement range
Hysteresis	Settable: from 0 to 100 % of set value or comparator mode	Settable: from 0 to 100 % of set value or comparator mode
Output signal	2 digital	2 digital
Max output current [mA]	Max output current [mA] 180	
Signalling	alling 2×LED 2×LED	
View resolution	olution 0,01 bar, 5 mmHg, 0,2 inHg, 1 kPa 0,01 bar, 5 mmHg, 0,2 inHg, 1 k	
View unit	bar, mmHg, inHg, kPa	bar, mmHg, inHg, kPa
Measurement value displaying	lue displaying LED 3-digit 7-segments LED 3-digit 7-segments	
Electric connection	Connector M8 4 Poles	Connettor M8 4 Poles
Pneumatic connection	G1/8 male ed M5 female	G1/8 male ed M5 female
Voltage	10.8-30V DC	10.8-30V DC
Current Consumption [mA]	< 55	< 55
IP Protection	IP 40/65 (with flexible tube)	IP 40/65 (with flexible tube)
Temperature effect	± 3% measurement range	± 3% measurement range
Operating temperature	0°C ÷ 50 °C	0°C ÷ 50 °C
Weight [g]	30	30



Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65

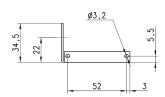


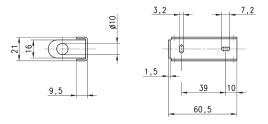


Mod.	Type of connector	Cable length (m)
CS-DF04EG-E200	straight	2
CS-DF04EG-E500	straight	5
CS-DR04EG-E200	right angle (90 degrees)	2
CS-DR04EG-E500	right angle (90 degrees)	5









Mod.

SWD-B

# 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

CONTROL

CODING E	XAMPLE					
SWDN	-	V01	-	P3	-	2
SWDN	SERIES					
V01	SET PRESSURE RANGE: V01 = from -1 bar to 1 bar P10 = from 0 bar to 10 bar					

**P3** 

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

ELECTRIC CONNECTION: 2 2 = cable of 2 meters M = M8 4 pin connector

#### Vacuum/Pressure switch Series SWDN

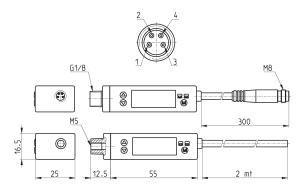
1 = brown(+)

2 = white (OUT 2)

3 = blue (-)

4 = black (OUT 1)





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

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#### TECHNICAL DATA

CHARACTERIS	TICS				
		SWDN-V01 SWDN-P10			
Rated pressure r	rango (net valuo)	-1 ÷ 1 bar 0 ÷ 10 bar			
	range (it can be displayed on the screen)	-1 ÷ 1 bar -1 ÷ 10 bar			
Withstand (Maxi		3 bar 15 bar			
Fluid	mum) pressure	Air, non-corrosive gases, incombustible gases			
Set pressure res	olution: kPa	0,1 -			
Cot procedio 100	MPa	- 0,001			
	Kgf/cm²	0,001 0,01			
	bar Psi	0,001			
	InHg	0,1			
	mmHg	1 -			
	mmH2O	0,1 -			
Power supply vo	•	12-24 VDC ± 10%, ripple (P-P) 10% or less			
Current consump		≤ 55mA			
PNP switch outp	ut	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 (sw	itch output)	≤ ± 0,2% F.S. ± 1 digit			
Analog output (w	here 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			
Beenenee time	Window comparator mode	Fixed (3 digits) ≤ 2,5ms (chattering-proof function: 24ms, 192ms and 768ms)			
Response time  Output short circuit protection		S 2,5ms (chattering-proof function: 24ms, 192ms and 766ms) YES			
7 segment LED	·	3 ½ digit (sampling rate of 5 times/sec)			
Indicator accurac	• •	≤ ± 2% F.S. ± 1 digit (ambient temperature: 25 ± 3°C)			
Indicator	<b>9</b>	green LED (OUT1), red LED (OUT2)			
Environment:	Protection class	IP40			
Liviloimiona					
	Temperature	Operation: 0 ÷ 50°C Storage: -20 ÷ 60°C			
		(without condensation or freezing)			
	Delether burneldte.	Occasion (Oten - OF - OF)			
	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 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			

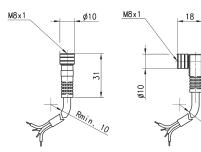




#### Circular M8 4-pole connectors, Female

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



### Series SWC electronic vacuum/pressure switches

Running out of stock

With digital display High precision, easy to use



- » Compact and lightweight
- » Digital display: electronically precise switching with two separate switching outputs.
- » Switching point and hysteresis progammable with the key pad.
- » Two separately programmable digital outputs allow to set the upper and lower limit value.
- » Special functions programmable: further adaptation is possible.

#### 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;
- user friendly and suitable for user's requirements.

#### Electric connections:

- This device functions correctly with a connector Mod. CS-DFO4EG-E500 or CS-DR04EG-E500 which should be ordered separately.

Further details at the end of this section.

#### **GENERAL DATA**

Type of vacuum/pressure switch electronic with polycarbonate housing

Vacuum switch connection Pressure switch

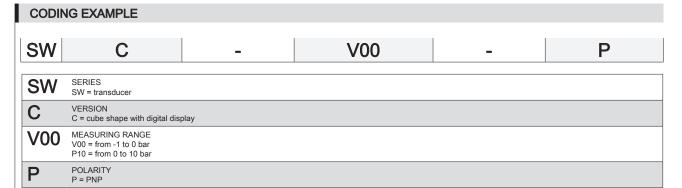
- vacuum connection with G1/8 male thread - pressure connection G1/8 male thread

Display LED

3 digit display and key pad to regulate the setting points integrated LED for the indication of the switching state

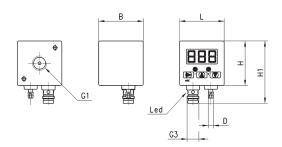
Electric connection

with 4-pin M8 connector



### Vacuum/pressure switch Series SWC





DIMENSIONS							
Mod.	В	D	G1	G3	Н	H1	L
SWC-V00-P	29	3,4	G1/8	M8	30	40	30
SWC-P10-P	29	3,4	G1/8	M8	30	40	30

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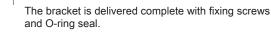
#### TECHNICAL DATA

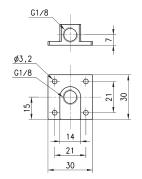
Mod.	SWC-V00-P	SWC-P10-P
Fluid	Non-aggressive gas, dry air, without lubrication	Non-aggressive gas, dry air, without lubrication
Measurement range	-1 ÷ 0 bar	0 ÷ 10 bar
Max overpressure [bar]	5	16
Precision	± 1% measurement range	± 1% measurement range
Hysteresis	settable: from 0 to 100 % of set value settable: from 0 to 100 % of set value or comparator mode or comparator mode	
Output signal	2 digital	2 digital
Max output current [mA] 180		180
Signalling	Signalling 2 x LED	
View resolution	lew resolution         0,01 bar, 5 mmHg, 0,2 inHg, 1 kPa         0,01 bar, 5 mm	
View unit	bar, mmHg, inHg, kPa bar, mmHg, inHg, kPa	
Measurement value displaying	rement value displaying LED 3-digit 7-segments LED 3-digit 7-segments	
Electric connection	c connection Connector M8 4 Poles Connector M8 4 Poles	
Pneumatic connection	G1/8 female	G1/8 female
Voltage	10.8 - 30 V DC	10.8 - 30 V DC
Current consumption [mA]	< 55	< 55
IP Protection	IP 40/65 (with flexible tube)	IP 40/65 (with flexible tube)
Temperature effect	± 3% measurement range from 0 to 50°C	± 3% measurement range from 0 to 50°C
Operating temperature	0°C ÷ 50 °C	0°C ÷ 50 °C
Weight [g]	35	35

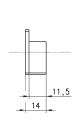




#### Bracket Mod. SWC-E





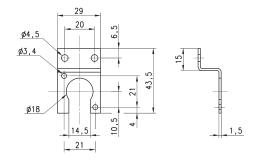


Mod.



#### Bracket Mod. SWC-B



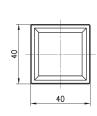


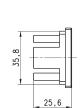
Mod.

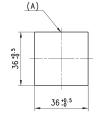


#### Panel mounting bracket Mod. SWC-F

A = dimensions of bay for panel mounting Thickness of the panel: from 1 to 6 mm







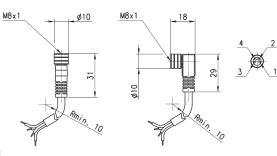
Mod.



#### Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65

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





# 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**

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

#### **CODING EXAMPLE**

SWCN	-	V01	-	P3	_	2

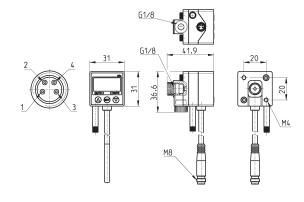
SWCN	SERIES
V01	SET PRESSURE RANGE: V01 = from -1 bar to 1 bar P10 = from 0 bar to 10 bar
P3	TYPE OF ELECTRIC CONNECTION: P3 = 2 PNP outputs + 1 analog output 1 - 5 V DC (this version is available with 5-pole cable only) P4 = 2 PNP outputs
2	ELECTRIC CONNECTION: 2 = cable of 2 meters M = M8 4 pin connector

### 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

#### TECHNICAL DATA

CHARACTERIS	TICS				
			SWCN-V01	SWCN-P10	
Botod procesure	mage (eet volue)		-1 ÷ 1 bar	0 ÷ 10 bar	
	range (set-value)	the coreen)	-1 ÷ 1 bar	-1 ÷ 10 bar	
Setting pressure range (it can be displayed on the screen)			3 bar	15 bar	
Withstand (Maximum) pressure					
Fluid Set pressure resolution: kPa		kPa	Air, non-corrosive gases, incombustible gases  0,1 -		
set pressure res	oluuoli.	MPa	-	0,001	
		Kgf/cm²	0,001	0,01	
		bar Psi	0,001 0,01	0,01 0,1	
		InHg	0,01	-	
		mmHg	1	-	
		mmH2O	0,1	-	
Power supply voltage			12-24 VDC ± 10%, ripple (P-P) 10% or less		
Current consump	otion		≤ 55mA		
PNP switch outp	ut		2 outputs with		
			max. load current of 80mA max. power supply voltage of 24VDC		
			residual voltage ≤ 1V (wi		
Repeatibility (switch output)		≤ ± 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		Adjustable		
Window comparator mode Fixed (3 digits)		3 digits)			
Response time			≤ 2,5ms (chattering-proof function: 24ms, 192ms and 768ms)		
Output short circuit protection			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		IP	65	
Temperature			Operation: 0 ÷ 50°C		
			Storage: -20 ÷ 60°C (without condensation or freezing)		
	Relative humidity		Operation/Stor (without co		
	Withstand (Max.) voltage		,	veen case and lead wire)	
	Insulation resistance		50MΩ min. (at 500VDC be	,	
	Vibration		Tatal	udo 1 E mm	
	Vibration		Total amplit 10Hz-55Hz-10Hz		
			2 hours each direct		
	Shock		000/-	2 (1000)	
	SHOCK		980 m/s 3 times each direc		
Changes due to temperature		≤ ± 2% F.S. of detected pressure (25°C) within the operating temperature range			
Port size		G1/8 - M5			
_ead wire			Oil-resistance o	able(0,15 mm²)	
Weight			About 105 g for the version	on with 2-meter lead wire	

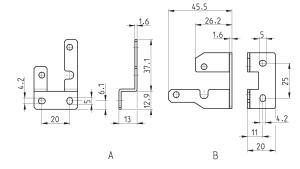
2



## Mounting bracket Mod. SWCN-B



- Supplied with: - 4 fixing screws M4x5 ISO 724 (fine pitch)
- 1 fixing bracket for surface mounting (A)
- 1 fixing bracket for wall mounting (B)



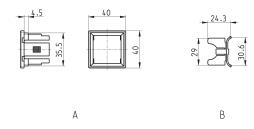
Mod. SWCN-B



#### Panel mounting set Mod. SWCN-F

#### Supplied with:

- 1 pressure switch holder (A)
- 2 panel mounting brackets (B)



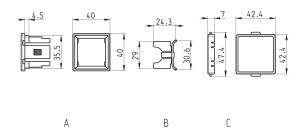
Mod. SWCN-F



#### Panel mounting set + transparent cover Mod. SWCN-FP

#### Supplied with:

- 1 pressure switch holder (A)
- 2 panel mounting brackets (B)1 transparent cover (C)



Mod.

SWCN-FP



#### Circular M8 4-pole connectors, Female

With PU sheathing, non shielded cable. Protection class: IP65

M8x1 Ø10	M8x1 18 62 02 02 02 02 02 02 02 02 02 02 02 02 02	3 1
'	`	

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

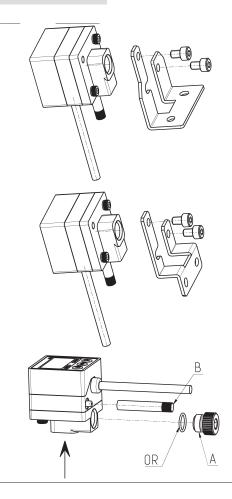


2

#### 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



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

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

