

ANALOGUE VACUUM SWITCH

These compact and extremely light switches come enclosed in a sturdy ABS casing; these features allow their installation on the machine and close to the application. If accurately calibrated, these analogue switches provide very precise measurements values. The adjustment range is from 0 to -1 bar and can be interfaced with external logics via an analogue output from 1 to 5 Volts and a digital PNP output, configurable via Teach-In.

The switching point, as well as the hysteresis from 0 to 100% of the set value, can be easily programmed via push buttons located on the control panel; the two two-colour LEDs on the control panel signal the commutation status and the error code, if any.

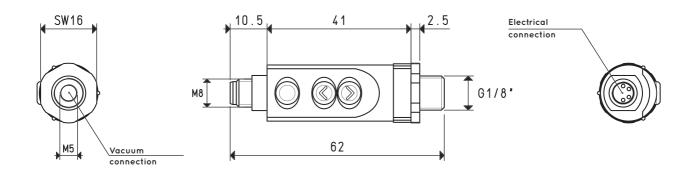
These devices can be rotated freely to place the display in the desired position, without having to unscrew them from the vacuum connection.

The vacuum connection is dual threaded: male G 1/8" or female M5. The electrical connection is an M8 4-pin threaded plug and upon request the connection cable is available in PUR, with an axial or radial connector.

These vacuum switches are suited for measuring and controlling dry air and non-corrosive gasses.

They are recommended in all those cases that require a measurement and commutation to be installed on safety or energy-saving devices, on systems for optimising the work cycle time and in circuit level of vacuum adjustment circuits.

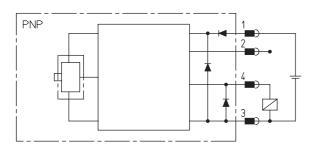




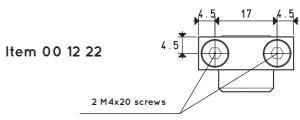


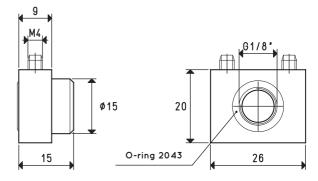


WIRING DIAGRAM



WALL FIXING KIT





Connections

1. V+

2. analogue output

3. V-

Electrical absorption

Commutation output Analogue output

Output tolerance

Reaction time **Commutation frequency**

Hysteresis

Repeatability

Offset



Cable colours Pin1 = brown Pin2 = white Pin3 = blue

Pin4 = black 4.commutation output

Characteristics and electrical specifications Item 12 07 10 Vacuum switch from 0 to -1 bar Adjustment range Maximum overpressure 5 bar Operating voltage 10.8 - 30 VDC (Protection against polarity inversion)

≤30 mA

1 digital PNP, NO or NC programmable, maximum commutation current 250 mA

1 - 5 V; impedance load ≥500 Ω

±1% 1 V - 0.1 Volt ≤2.5 ms 400Hz

Adjustable from 0 to 100% of the maximum set value

±0.2% of the measuring range

Error code signal	Two-colour LED	
Insulation resistance	100 MΩ to 500 VDC	
Test voltage	1000 VAC, 1 min	
Degree of protection	IP 65	
Environmental operating conditions		
Installation position	Any	
Measurable fluids	Non-corrosive gas and dry air	
Operating temperature	0 - +50 °C	
Storage temperature	-20 - +80 °C	
Interference emission	In compliance with DIN EN 50081 - 1	
Resistance to interference	In compliance with DIN EN 50082 - 2	
Characteristics and mechanical specifications		
Container material	ABS plastic - PC	Τ
Connection material	Nickel-plated brass	
Weight	19 g	

Electrical connection With M8 - 4 pin coupler Connection to the fluid Male G 1/8" or female M5 threading Accessories Electrical connection cable With axial connector, 5 m - PUR M8 x 1x 0.25 mm - Item 00 12 20 **Electrical connection cable** With radial connector, 5 m - PUR M8 x 1x 0.25 mm - Item 00 12 21 Wall fixing kit Support with o-ring and screws - Item 00 12 22