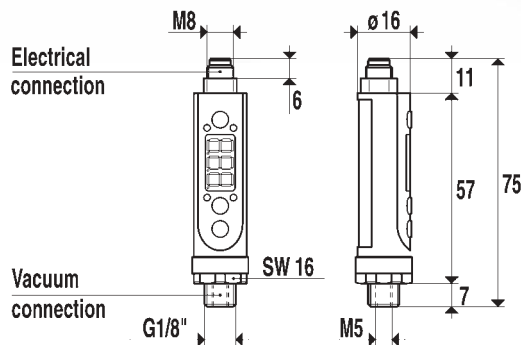




[Digital vacuum switch]



This vacuum switch is a real innovation in the field of vacuum checking and measurement. Contained in a sturdy ABS-capsule, the vacuum switch is compact and extremely light; these features allow installation on the machine and close to the application.

The digital vacuum switch, accurately calibrated and compensated for temperatures, is able to give very precise measurements values.

The measured values are shown on the display, making vacuum gauges redundant.

Two LED, one red and one green, built into the small control panel, show the switch state of the two output digital signals. The two switch outputs are completely independent.

The switch point between 0 and -1 bar as well as the hysteresis from 0 to 100% of the set up value can be easily programmed by the means of the small push buttons incorporated in the small control panel. Also, other functions can be programmed, such as the comparison between two values, contacts N.O. and N.C., choice of the vacuum unit, lock of the values and the programmed functions, reversible display, etc.

This switch can be rotated freely, without unscrewing it from the vacuum connection, to orientate the display in the required position.

The vacuum connection is dual threaded: G 1/8" external and M5 internal.

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.

Digital vacuum switch are suitable for the measurement and the control of dry air and non-corrosive gases.

It is recommended for use in a vacuum circuit where determination of a safe vacuum level is required prior to the start of a production cycle, for the grip control of a vacuum cup(s), etc.

Also with the adjustable hysteresis, it is possible to control the compressed air for vacuum generators, allowing a considerable energy saving.

ELECTRICAL FEATURES AND DATA

ART. 12 10 10

Adjustment range	from 0 to -1 bar(g)
Supply voltage	10.8 ÷ 30 VDC (protection against polarity reversal)
Current input	≤ 55 mA to programme; ≤ 35 mA during operation
Switch outputs	2 digital PNP, NO or NC, max switch power 250 mA
Display tolerance	± 1%
Response time	≤ 2,5 ms
Switch frequency	400 Hz
Hysteresis	Adjustable from 0 to 100% of the max set up value
Repeatability	± 0,2% of measuring range
Display	LED 3 digit 7segment display
Insulation resistance	< 100 MΩ at 500 VDC
Proof voltage	1000 VDC -1 min
Class of protection	IP 65

ENVIRONMENTAL CONDITIONS

Position of installation	anywhere
Measuring fluids	non-corrosive gases and dry air
Working temperature	0 ÷ +50°C
Storage temperature	-20 ÷ +80 °C
Emitted interference	according to EN 50081-1
Interference immunity	according to EN 50082-2

MECHANICAL FEATURES AND DATA

Container	plastics ABS-PC
Connections	nickel-plated brass
Weight	~ 25 g.
Electrical connector	M8-4 pin plug
Connection to fluid	thread G 1/8" external, M5 internal

ACCESSORIES

Electrical connection cable	with axial connector, mt 5 - PUR M8 x 1 x 0,25 mm - Item No. 00 12 20
Electric connection cable	with radial connector, mt 5 - PUR M8 x 1 x 0,25 mm - Item No. 00 12 21
Kit for fixing to wall	adaptor flange with bracket, OR and screws. - Item No. 00 12 22