



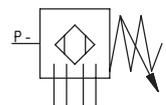
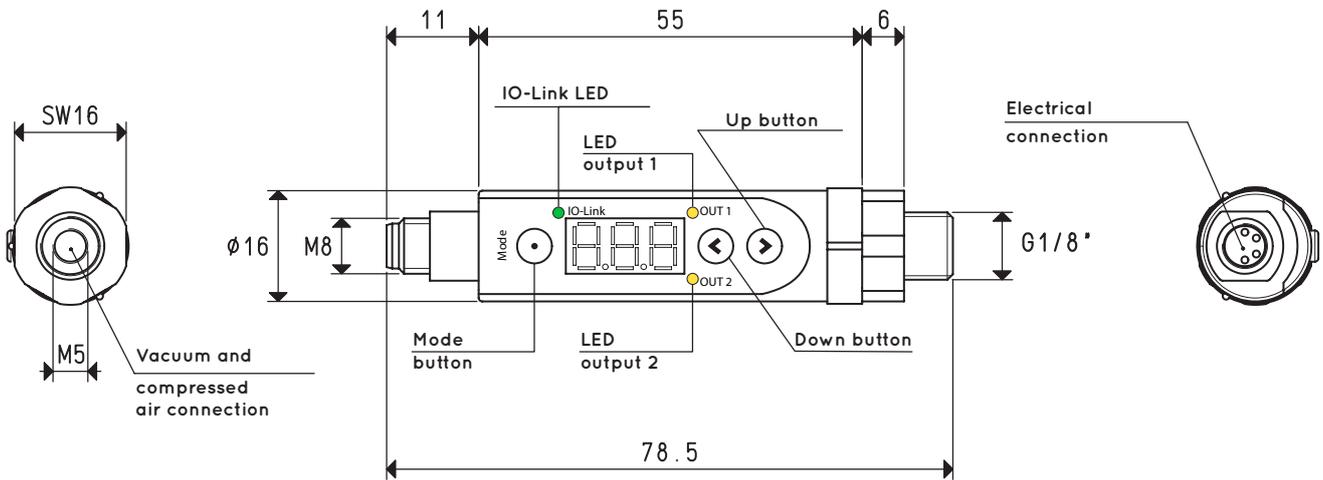
DIGITAL IO-Link VACUUM AND PRESSURE SWITCHES

3D drawings are available on vuototecnica.net

- **Physical characteristics:** Robust ABS housing, compact and lightweight; mountable on machinery and near the point of use.
- **Precision and display:** Calibrated and temperature-compensated; integrated display shows values, making an external vacuum gauge unnecessary.
- **Signal indication:** Two LEDs indicate the status of the two independent digital output signals.
- **Programming:** Switching points and hysteresis (0–100% of set value) programmable via buttons. Also configurable: threshold comparison, NO/NC contacts, unit selection, parameter lock, and display inversion.
- **Display rotation:** Free rotation to orient the display without disconnecting pneumatic connections.
- **Connections:** Pneumatic with double-threaded G 1/8 inch male or M5 female; electrical M8 4-pin (PUR cable with axial or radial connector available on request).
- **Applications:** Measurement and control of dry air and non-corrosive gases; ideal for safety signals, cycle start, vacuum suction cup control, and optimizing energy consumption of vacuum generators.
- **IO-Link:** IO-Link version distinguishable from the standard model by the logo and the "IO-Link" inscription on the housing. Enables bidirectional digital communication, remote parameterization, and advanced diagnostics, turning the sensor into an intelligent device for Industry 4.0.



 **IO-Link**
Ready!



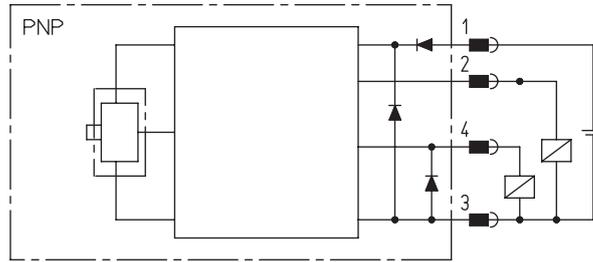
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.134

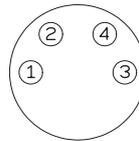


WIRING DIAGRAM



Connections

1. Ub+
2. Control output / diagnostics
3. Ub- (Gnd)
4. Control output / IO-Link



Cable colours

- Pin1 = brown
- Pin2 = white
- Pin3 = blue
- Pin4 = black

Characteristics and electrical specifications	Item 12 10 10 Vacuum switch	Item 12 25 11 Pressure switch
Measuring range	-100 ÷ 0 kPa -1000 ÷ 0 mbar	0 ÷ 10 bar
Maximum overpressure	5 bar	16 bar
Minimum detectable values	0.01 bar 1 kPa 0.2 Psi	0.01 bar -- --
Operating voltage	10.8 - 30 VDC (Protection against polarity inversion)	
Electrical absorption	<15 mA / <3 mA energy saving mode	
Commutation output	2 digital PNP, NO or NC programmable, maximum commutation current 250 mA	
Display tolerance	≤ ±2% F.S.	
Reaction time	≤ 2.8 ms	
Commutation frequency	200Hz	
Hysteresis	Adjustable from 0 to 100% of the maximum set value	
Repeatability	±0.2% of the measuring range	
Display	3-digit, 7-segment 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	
Connection material	Nickel-plated brass	
Weight	20 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	