

P3010 Vacuum switch, adjustable with LED-Display

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- Patented multistage COAX® cartridge - MINI - with Pi, Si, Xi cartridge.
- Includes a flow-through silencer and a built-in vacuum filter for harsh environments.
- High system reliability in case of fluctuating or low feed pressure.
- Suitable for fast and reliable evacuation in sealed systems.

Technical data

Description	Unit	Value
Feed pressure, max. (pump)	psi	101.50.7
Noise level	dB(A)	66-68
Pressure, max. (switch)	psi	29
Vacuum range	-inHg	0-30
Material		PP, PA, PC, POM, NBR, Al, SS
Temperature range	°F	14-122
Weight	oz	7.76-16.6
Function		2 NO, NPN/PNP
Hysteresis	-inHg	0.60
Voltage supply	VDC	12-24
Dielectric strength, 1 min	VAC	500
Safety classification		IP40
Humidity	%RH	35-85
Response time	ms	2
Accuracy at 77°F		±3% F.S
Current consumption, maximum	mA	35
Insulation resistance, at 500 VDC	MO/MW	100
Display		2-digits LED
Current output, max.	mA	80

Vacuum flow

COAX® Cartridge	Feed pressure* psi	Air consumption scfm	Vacuum flow (scfm) at different vacuum levels (-inHg)										Max vacuum -kPa
			0	3	6	9	12	15	18	21	24	27	
Pi12-3	45	0.93	2.97	1.27	0.93	0.57	0.40	0.30	0.21	0.13	0.06	—	27.0
Si08-3	87	0.93	2.84	1.55	1.17	0.74	0.49	0.36	0.28	0.17	—	—	22.2
Xi10-3	72.5	0.97	3.03	1.48	1.06	0.70	0.40	0.32	0.23	0.15	0.10	0.02	27.8

For vacuum flows at other feed pressures, see COAX® Cartridge data sheets. *Feed pressure tolerance, +/- 1.45 psi

Evacuation time

COAX® Cartridge	Feed pressure* psi	Air consumption scfm	Evacuation time (s/cf) to reach different vacuum levels (-inHg)									Max vacuum -inHg
			3	6	9	12	15	18	21	24	27	
Pi12-3	45	0.93	2.27	6.52	13.9	28.3	48.2	73.7	110	178	—	27.0
Si08-3	87	0.93	2.83	7.08	13.6	22.7	36.8	56.7	82.2	—	—	22.2
Xi10-3	72.5	0.97	2.55	7.37	14.2	25.5	42.5	62.3	96.3	147	249	27.8

For evacuation times at other feed pressures, see COAX® Cartridge data sheets. *Feed pressure tolerance, +/- 1.45 psi

Blow flow

COAX® cartridge	Feed pressure psi	Air consumption scfm	Blow flow (scfm) at different pressure levels (psi)												Max pressure psi
			0	3	6	9	10	12	13	15	16	17	19	20	
Pi12-3	87	1.59	3.96	2.97	2.82	2.37	2.18	2.18	2.18	2.18	2.12	2.01	1.82	1.67	20
Si08-3	87	0.93	3.77	2.46	2.18	1.82	1.70	1.59	1.40	1.12	—	—	—	—	10
Xi10-3	87	1.14	3.81	2.75	2.33	2.08	1.80	1.78	1.67	1.50	1.29	—	—	—	13

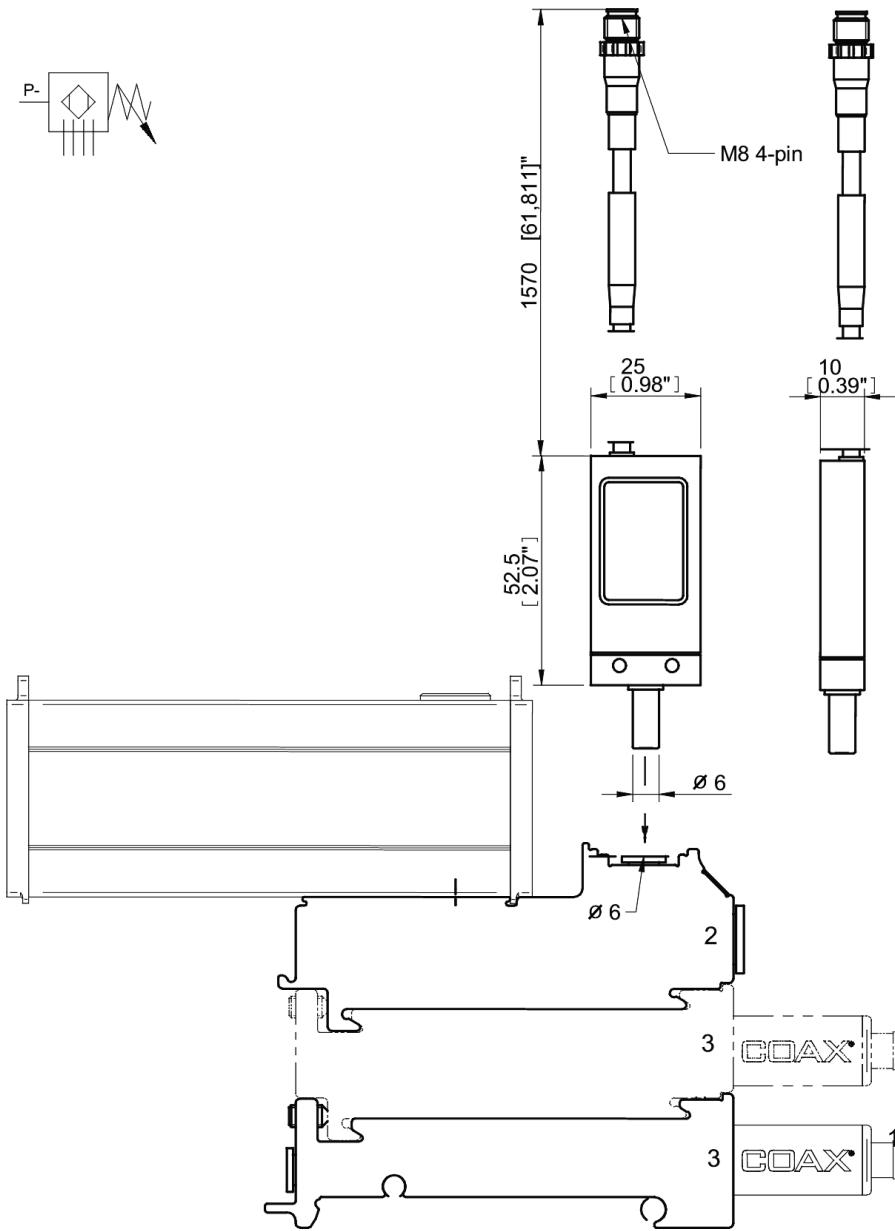
Ordering information**1. Select housing** **P3010 Code**Housing, connection Ø=6 mm 00Housing, connection 1/8" NPSF 01**2. COAX® cartridge modules** **P3010 Code**COAX® cartridge module Pi12-3FSx1 AECOAX® cartridge module Pi12-3FSx1, non-return valve AFCOAX® cartridge module Pi12-3FSx2 AGCOAX® cartridge module Pi12-3FSx2, non-return valve AHCOAX® cartridge module Si08-3FSx1 AACOAX® cartridge module Si08-3FSx1, non-return valve ABCOAX® cartridge module Si08-3FSx2 ACCOAX® cartridge module Si08-3FSx2, non-return valve ADCOAX® cartridge module Xi10-3FSx1 AICOAX® cartridge module Xi10-3FSx1, non-return valve AJCOAX® cartridge module Xi10-3FSx2 AKCOAX® cartridge module Xi10-3FSx2, non-return valve AL**3. Select connection and function module** **P3010 Code**Function Quick-release connection, 10 and 6 mm, 3 cm³ 04Function Quick-release connection, 8 and 6 mm, 30 cm³ 05Function Quick-release connection, 8 and 6 mm, 60 cm³ 06Function Quick-release connection, 10 and 6 mm, 30 cm³ 07Function Quick-release connection, 10 and 6 mm, 60 cm³ 08Function Quick-release connection, 1/4" NPSF and 6 mm, 3 cm³ 09Function Quick-release connection, 1/4" NPSF and 6 mm, 30 cm³ 10Function Quick-release connection, 1/4" NPSF and 6 mm, 60 cm³ 11Function Quick-release connection, 8 and 6 mm, 3 cm³ 12

For detailed information on Quick-release, see separate datasheet.

4. Select ES **P3010 Code**No energy saving AAValve DS23 AB

For detailed information on Valve DS 23, see separate datasheet.

5. Select vacuum sensing **P3010 Code**Vacuum switch, adjustable, PNP NO DM8 09Vacuum switch, adjustable, NPN NO DM8 10**Example** **Ordering number**Housing, connection Ø 6 mm Pi12-3FSx1, Function Quick-release module 10/6 3cm³, no energy saving, Vacuum switch PNP NO DM8 P3010.00.AE.04.AA.09



Ordering information,
accessories

Description

Sealing kit P3010, NBR

Part No.

01.04.201

The sealing kit includes flap valves, compressed air filter and vacuum filter.