

VACUUM Switch

Order No.

VP 32 V - 01 F1 - C □



① Pressure Range

- **C** - Compound (-100.0 ~ 100.0 kPa)
- **V** - Negative (-101.3 ~ 0 kPa)
- **P** - Positive (0.00 ~ 1.00 MPa)

② Output type

- **01** - 2 NPN Output
- **02** - 2 PNP Output

※ for Analog type

01:1.NPN + 1Analog Output 03:1.PNP + 1Analog Output

③ Pressure Port

- **F1** - PT1/8" male, M5 female

④ Cable Specification

- **Nomark** : Lead wire type (2M)
- **C** : M8-4 Pin male connector

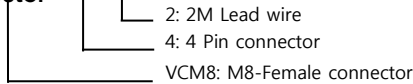
⑤ Analog output

- **Nomark** : Without analog output
- **A** : Analog output (1~5V)



Option

- **VCM8 4 2** : M8-4 pin female connector



- **Bracket D** : Mounting bracket (BT 3 + BT 4)
- **Bracket E** : Mounting bracket (PA 3 + PA 4)
- **Bracket E** : Panel adapter + Front protective lid (PA 3 + PA 4 + FPC 2)



Operating Specifications

Specifications	Mod	VP32 C..	VP32 V..	VP32 P..
Fluid		Air, Non-corrosive gases, incombustible gases		
Setting pressure range		-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	0.000 ~ 1.000 MPa
Withstand pressure		300 kPa		1.5 MPa
Indicator resolution	kPa	0.1		-
	MPa	-		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	mmHg	1		-
Power supply voltage		12~24 VDC±10%, Ripple (P-P) 10% or less		
Current consumption		≤ 40 mA (with no load)		
Switch output		NPN open collector Max. load current : 125mA Max. supply voltage: 30VDC Residual voltage : ≤ 1.5V (load current 125mA)		PNP open collector Max. load current : 125mA Max. supply voltage: 24VDC Residual voltage : ≤ 1.5V (load current 125mA)
Analog output		Output Voltage: 1~5V ≤ ±2.5%F.S.(within rated pressure range) Linearity : ≤±1% F.S. Output impedance : 1kΩ		
Repeatability (Switch output)		≤±0.2% F.S. ±1digit		
Response time		≤2.5ms (chattering-proof function : 25ms,100ms, 250ms, 500ms, 1000ms, 1500ms selections)		
Output short circuit protection		Yes		
Indicator accuracy		≤±2% F.S ±1 digit (ambient temperature : 25±3℃)		
Hysteresis	One point set	Adjustable within 1~8 digits		
	Hysteresis mode	Adjustable within 1~8 digits		
	Window mode	Fixed (3 digits)		
Environment	Enclosure	IP40		
	Ambient temp. range	Operation : 0 ~ 50℃, Storage : -10 ~ 60℃ (No condensation or freezing)		
	Ambient humidity range	Operation/ Storage: 35~85% RH (No condensation)		
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-150Hz-10Hz scan for 1 minute, hours each direction of X,Y and Z		
	Shock	1000 m/s ² (10G), 3 times each indirection of X,Y and Z		
Temperature characteristic		≤±2% F.S of detected pressure (25℃) at temp. range 0~50℃		
Port size		PT 1/8" male, M5		
Lead wire		F1: 1/8" PT, M5		
Weight		Approx. 80g (with 2M lead wire), Approx. 45g (with male connector)		