

VSD200 differential switch

INFICON Vacuum Switches are designed for accurate and reliable pressure detection. These robust electronic switches are used in all vacuum applications, including pressure interlock. The switches are available in two versions, absolute (references vacuum) or differential (references ambient).

BENEFITS

- Corrosion resistant all stainless steel design
- Robust design, cleanroom compliant
- Easy installation with setpoints factory preset or field-adjustable

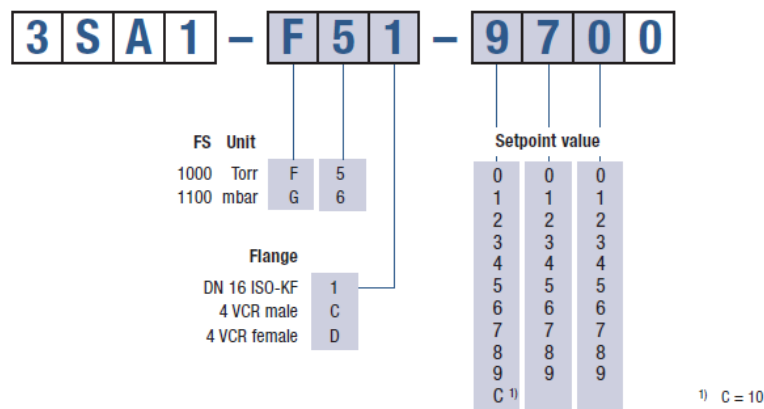
FEATURES

- IP 44 protection
- Relay output with potential free contacts
- High-accuracy temperature compensated sensor
- Pressure range 1×10^{-9} mbar ... 2 bar



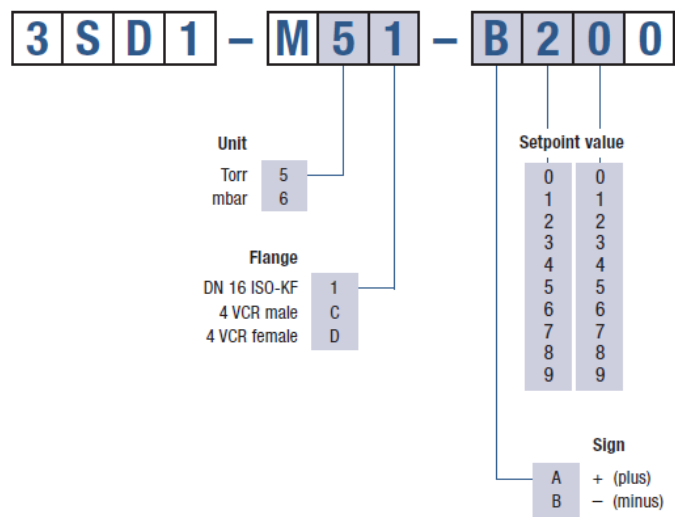
ORDERING INFORMATION

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VSA200 ABSOLUTE SWITCH



Example: Setpoint at 970 Torr absolute pressure, DN 16 ISO-KF: **3SA1-F51-9700**
Setpoint at 1080 mbar absolute pressure, 4 VCR male: **3SA1-G6C-C800**

ORDERING INFORMATION
VSD200 DIFFERENTIAL SWITCH



Example: 20 Torr below ambient pressure, DN 16 ISO-KF: **3SD1-M51-B200**

SPECIFICATIONS

Type		-100 ... +50 mbar	-100 ... +50 Torr
Differential range (1)	mbar	-100 ... +50	–
Differential range (1)	Torr	–	-100 ... +50
Setpoint range	mbar	-99 ... +46	–
Setpoint range	Torr	–	-99 ... +46
Admissible pressure	bar (absolute)	2	2
Setpoint relay			
Relay output		n.o., n.c., potential free	n.o., n.c., potential free
Setpoint relay			
Contact rating	V (dc)	30	30
Setpoint relay			
Contact rating	A (dc)	1	1
Setpoint relay			
Contact rating	V (ac)	30	30
Setpoint relay			
Contact rating	A (ac)	0.3	0.3
Setpoint accuracy	percent FS	0.5	0.5
Temperature effect on zero and span	percent FS/°C	≤±0.02	≤±0.02
Response time	ms	≤45	≤45
Hysteresis	percent FS	2	2
Electrical connection		D-Sub, 9-pin	D-Sub, 9-pin
Supply voltage	V (dc)	14 ... 30	14 ... 30
Power consumption	W	<0.5	<0.5
Admissible temperature			
Operation (ambient)	°C	0 ... 70	0 ... 70
Storage	°C	-40 ... 80	-40 ... 80
Materials exposed to vacuum		stainless steel	stainless steel
Mounting orientation		any	any
Internal volume			
DN 16 ISO-KF	cm ³ (in. ³)	2.81 (0.17)	2.81 (0.17)
4 VCR	cm ³ (in. ³)	0.93 (0.057)	0.93 (0.057)
Weight	g	140	140
Degree of protection		IP 40	IP 40
Sensor protection		Short circuit protection and reverse polarity protection	Short circuit protection and reverse polarity protection

(1) References to ambient pressure.

DIMENSIONS

