MVS-030AB Instruction Manual

Thank you for purchasing a MVS-030AB vacuum sensor. Please read this instruction manual carefully and make it sure that you understand its operation procedures before using the product. This manual is important for later reference, so please keep it in good hands



CAUTION -

No protection against water, oil and lubricant, so do not install this product to the place exposed to water, oil and lubricant, because the electrical elements inside of this product will be deteriorated due to the water, oil etc. soaking into there from the outside.

Do not use with corrosive or flammable gases.

Do not apply excessive force by spanner etc. to the parts except metal adapters when installing a single type sensor.

Do not insert a screw driver, wires etc. into the pressure port. Diaphragm may be damaged and out of order of the sensor's function.

In approx. 2 sec. after input of electrical supply, no sensing of the correct value is available.

Use a power supply of 12 to 24VDC to the sensor and set the ripple to Vp-p-10% or less. Avoid excessive voltage and voltage surges by using the electrical supply separated from the power supply for relays, solenoid valves, motors etc.

Pressure tolerance is 0.5MPa. Be careful please. Proper earth of power supply is requested.

Do not insert the cables of the sensor in the common duct for power supply and high voltage cables.

12VDC rather than 24VDC is better for the power supply of the sensor.

In case of 100/200VAC power supply, OMRON Sensor Controler ^r S3D2_J or equivalent is to be applied.

Collector current of the output transistor is designated for 80mA or less with loaded voltage of 30MDC or less.

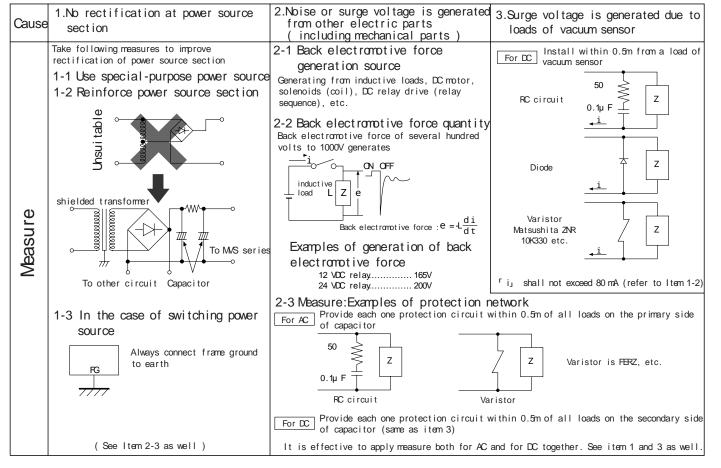
When installing the single type sensor to CONUM, the adapter or sensor base is needed separately. Please turn over.

Specification and dimension of the sensor are to be referred to the catalog.



SPECIAL CAUSION ON VACUUM SENSOR-

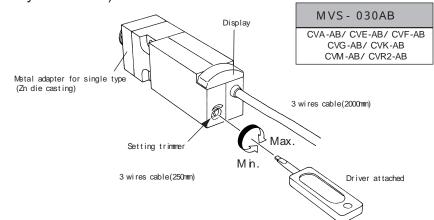
Diffusion type semiconductor pressure transducers are integrated for the vacuum sensors in M/S series. For the use of the sensors, pay special attention to the followings to avoid the error and damages caused by voltage surges.



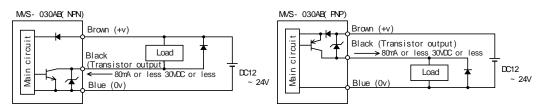
■ Value Setting (Set value at ex-factory:-46.6kPa)

Setting Trimmer turns clockwise upto -100.9kPa and anticlockwise upto 0kPa.

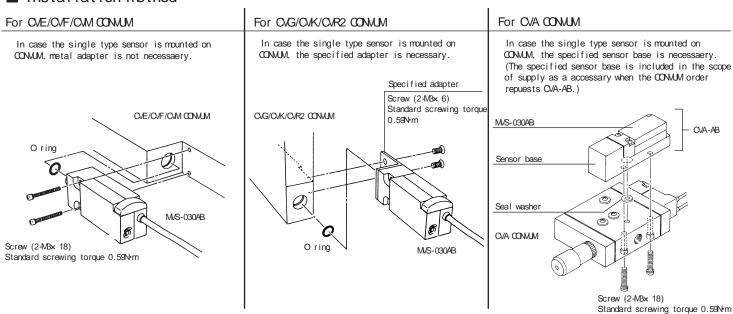
Be careful not to push the trimmer by excessive force and turn it slowly. (The pushing force by driver is 0.49N or less.)



■ Wiring diagram -



■ Installation method -



Accessories

MODEL	Parts	Remarks	Q'TY
Single type M/S-030AB	Driver for trimmer		1
	Screw	M3x 18 with spring washer	2
CONUM mountable type CV -AB	Driver for trimmer		1
	Screw	MBx 18 (CVE/CVF/CMM CONNUM)	2
		MBx 6 (CVG/CVK/CVR2 CONVUM)	2
		MBx 25 (CVA CONNUM)	2
	Oring	(CVE/CVF/CMM CONNUM)	1
	Adaper + O ring	(CVG/CVK/CVR2 CONVUM)	each 1
	Sensor base	(CVA CONUM)	1

CONVUM

http://www.convum.co.jp