

# Vacuum switch MVS-035G series



- Vacuum switch
- Small size, high-accuracy
  - High-speed response time: 2msec
- With analog output (1-5V)
- Hysteresis variable type
- Can be mounted on several CONVUM ejectors

Easy sensor replacement

## How to order

MVS - 035G -	<b>R</b>
	Port size
R	R1/8
NPT	NPT1/8
G	G1/8

## CONVUM ejector mounting reference

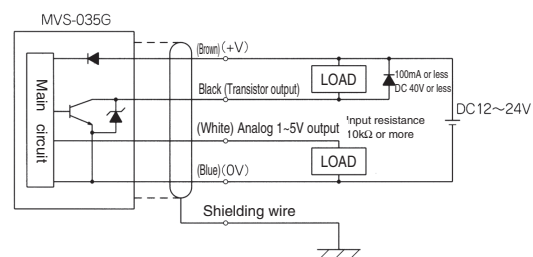
MVS - 035G -	<b>CVF</b>
①Aplicable CONVUM	
MC22	for, MC22
CVA2	for, CVA2
CVF	for CVF
MPV3	for, MC72, CVR2, MPV3, MPV6
CV4	for CV4

## Specifications

Type	Unit	MVS-035G
Fluid		Air (non corrosive, nonflammable gas)
Pressure range	kPa	-2.7 ~ -101.2
Setting value before shipment	kPa	-46.6
Proof pressure	MPa	0.5
Operating ambient temperature	°C	0 ~ 50
Operating humidity	%	35 ~ 85 RH (without condensation)
Port size		R1/8、NPT1/8 or G1/8
Power supply	V	DC12 ~ 24 ± 10%
Power consumption	mA	20
output	Display	LED, RED color
	Type	NPN Open collector
	Rated	max.DC40V 100mA
Repeatability	%	± 3 F.S
Response time	msec	Less than 2
Hysteresis		Variable (2 ~ 9% )
Noise resistance		Vp-p240V、10ms、0.5μs(by noise simulator)
Setting method		Vacuum: 3-turn trimmer、Hysteresis: 2/3-turn trimmer
Cable specifications	m	φ4 4 pin KVV AWG26 standard shield
Materials		PBT plastic, Zinc die cast
Mass (including cable)	g	110

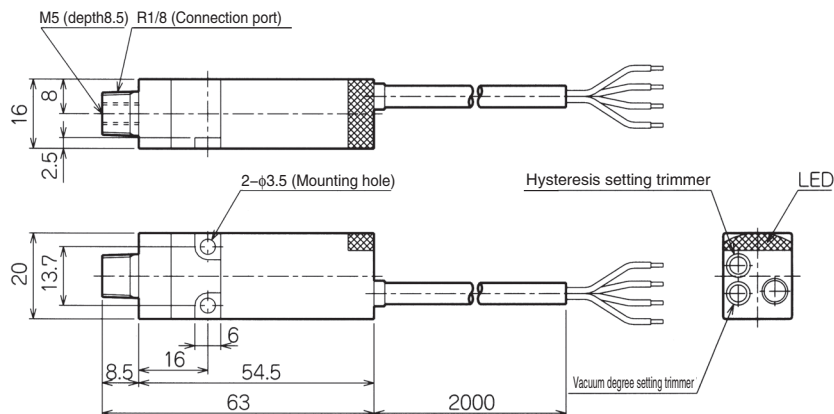
No protection against oil,water

## Internal circuit diaphragm



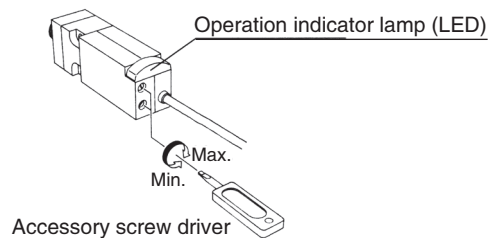
- Note 1) A direct operation amplifier is connected to the analog output. Connect the analog output to an input resistance larger than 10kΩ without fail.
- Note 2) Useless the analog output is used, cut off white lead wire and prevent it from touching other terminals by wrapping it with insulating tape.

## Adjusting method of set degree of vacuum



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It is possible to set the vacuum degree toward  $-100.9\text{kPa}$  and  $0\text{kPa}$  by turning the vacuum setting trimmer clockwise and counterclockwise, respectively, by means of an accessory screw driver. It is also possible to increase and decrease the hysteresis by turning the hysteresis setting trimmer clockwise and counterclockwise, respectively.

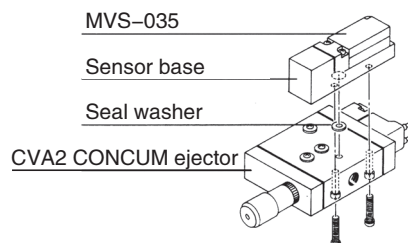


## Mounting method on various CONVUMs

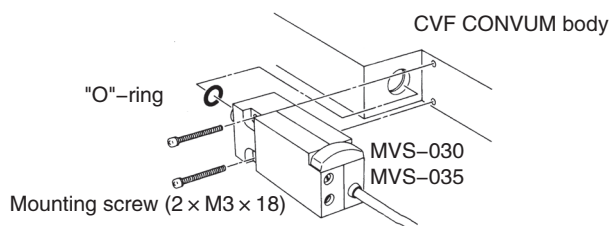
### ■ Mounting of vacuum switch only on the CONVUM ejector

- Remove the adapter from the body by removing pan-head machine screws (4) with a screwdriver. The adapter is not required when installing the vacuum switch on the CONVUM ejector.

### ■ Mounting method of vacuum switch on CVA2 CONVUM ejector



### ■ Mounting method of vacuum switch on CVF CONVUM ejector



### ■ Mounting method of vacuum switch on MC22 CONVUM ejector, MPV3 switching valve

