

# Vacuum switch

## MVS-030AB series



- Vacuum switch
- Small size, high-accuracy
  - High-speed response time: 2ms
- Can be mounted on several CONVUM ejectors
  - Easy sensor replacement

### How to order

MVS - 030AB - R

Port size

R	R1/8
NPT	NPT1/8
G	G1/8

### CONVUM ejector mounting reference

MVS - 030AB P - MC22

① Output type

Blank	NPN open collector
P	PNP open collector

② Applicable series

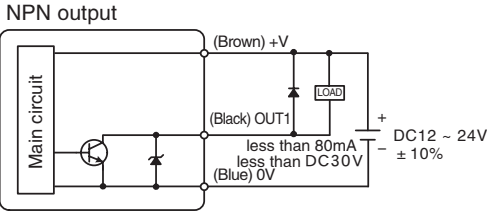
MC22	For MC22
CVA	For CVA2
CVF	For CVF
MC72	For MC72
MPV3	For MPV3
CV4	For CV4

### Specifications

Type	Unit	MVS-030AB
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 (no condensation)
Port size		R1/8, NPT1/8, G1/8
Power supply	V	DC12 ~ 24 ± 10%
Power consumption	mA	20
output	Display	LED, RED color
	Type	NPN/PNP Open collector
	Rated	max.DC30V 80mA
Repeatability	%	± 3 F.S
Response time	msec	Less than 2
Noise resistance		Vp-p240V, 10ms, 0.5μs(by noise simulator)
Setting method		2/3 turn trimmer
Cable specifications		φ4 3pin × 0.15mm length 2m
Materials		ABS plastic, Zinc Die-cast
Mass(including Cable)	g	64

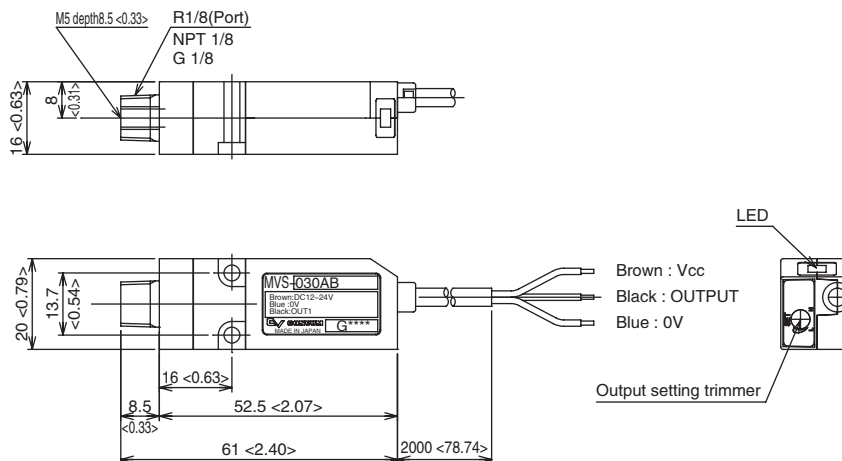
No protection against oil, water.

### Internal circuit diaphragm



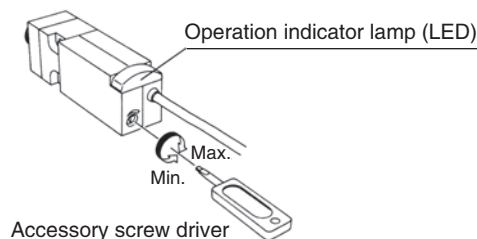
## Dimensions (port saize R)

Unit : mm <inch>



## Adjusting method of set degree of vacuum

It is possible to set the vacuum degree toward  $-101.2\text{kPa}$  and  $0\text{kPa}$  by turning the vacuum setting trimmer clockwise and counterclockwise respectively, by means of an accessory screw driver. (Change set value while checking degree of vacuum using a vacuum gauge.)

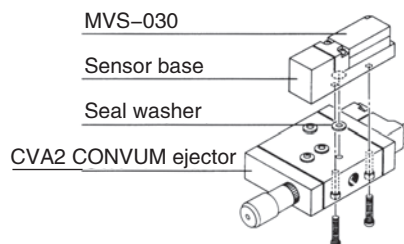


## Mounting method on various CONVUMs

### ■ Mounting of pressure 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 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/MC72/CVR2 CONVUM ejector, MPV3 switching valve

