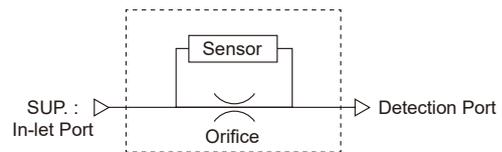




Features

- Digital LCD display, easy readout
- IP65 enclosure
- Detection distance : 0.01 ~ 0.10 mm
- Repeatability : $\pm 5 \mu\text{m}$

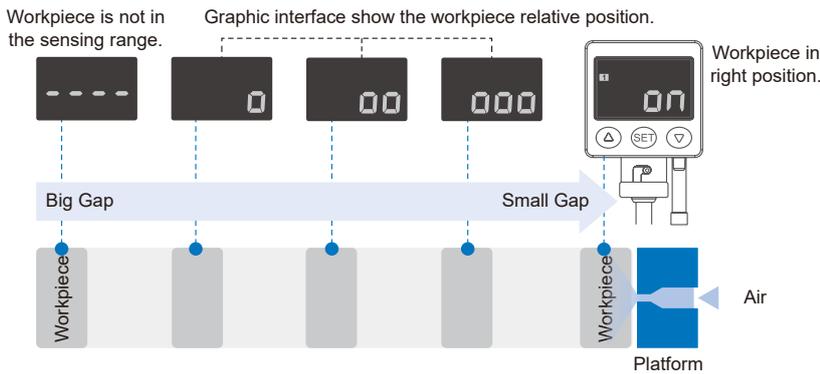
Detection Circuit



Features highlight

Easy to check workpiece located on the right place

- Intuitive recognize in graphic interface, easy to check the gap between workpiece and platform.

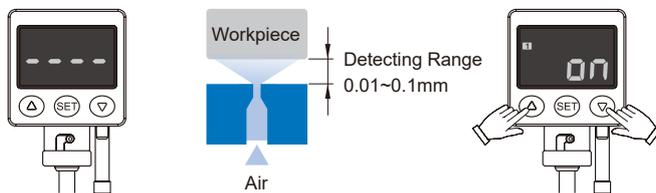


IP65 compliance



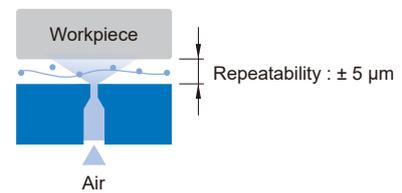
Reference gap easy setting

- To set the reference gap by press up + down at the same time.

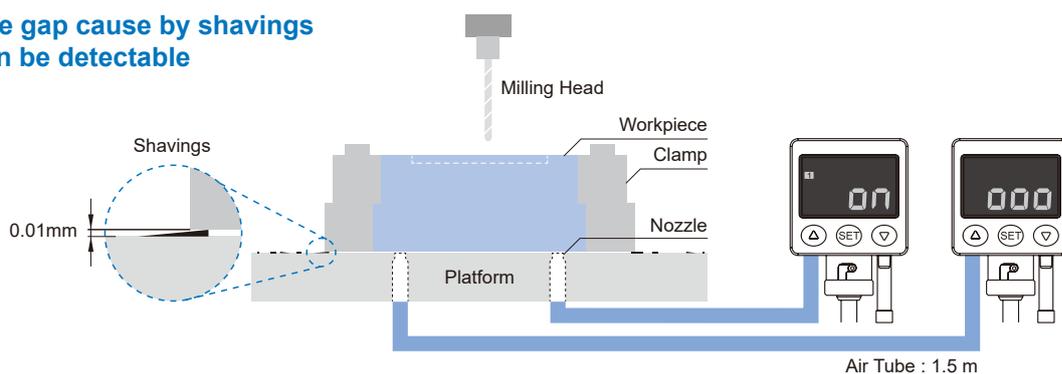


Repeatability : $\pm 5 \mu\text{m}$

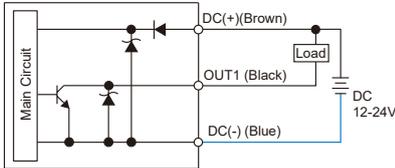
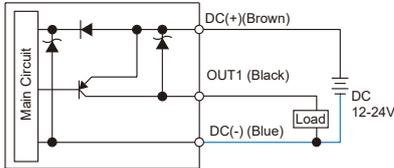
- The higher repeatability is, the more guarantee is.



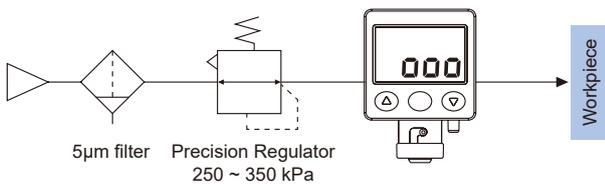
The gap cause by shavings can be detectable



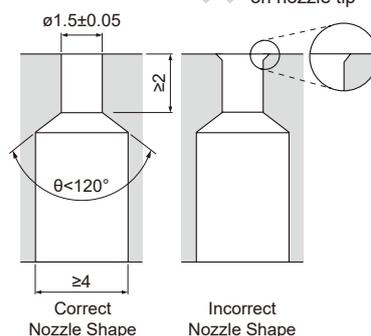
Specification

Model	MPGS01-□-02	MPGS01-□-04
Detection Distance	0.01 ~ 0.10 mm	
Operating Pressure Range	250 ~ 350 kPa	
Withstand Pressure	600 kPa	
Fluid	Clean air, Non-corrosive / Non-flammable gas *1	
Power Supply Voltage	12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %	
Current Consumption	≤ 20 mA	
Switch Output	1 NPN : open collector 1 output Max. Load Current : 125 mA Max. Supply Voltage : 30 V DC Residual Voltage : ≤ 1.5 V	1 PNP : open collector 1 output Max. Load Current : 125 mA Max. Supply Voltage : 24 V DC Residual Voltage : ≤ 1.5 V
Consumption Flow Rate	≤ 16 L/min @ 300 kPa	
Repeatability	±5 μm	
Hysteresis	Adjustable 1 ~ 30 digits	
Output Short Circuit Protection	Yes	
Display	3 ½ digital, 7 segment LCD display (White) (Sampling rate : 5 times / sec.)	
Switch on Indicator	White Indicator 1 : OUT	
Detection Nozzle	ø1.5 mm *2	
Environment	Enclosure	IP65
	Ambient Temp. Range	Operation: 0 ~ 50 °C, Storage: -10 ~ 60 °C (No condensation or freezing)
	Ambient Humidity Range	Operation / Storage: 35 ~ 85 % RH (No condensation)
	Withstand Voltage	1000 V AC 1-min (between case and lead wire)
	Insulation Resistance	≥ 50 MΩ (at 500 V DC, between case and lead wire)
	Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz ~ 55 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z
	Shock	100 m/s ² (10 G), 3 times each in direction of X, Y and Z
Piping Specifications	Supply Port	F1C : Rc1/8" *3
	Detection Port	
Lead wire	ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm ²) - 3 cores	
Weight (with 2 meter lead wire)	Approx. 115 g	
Circuit wiring diagrams		

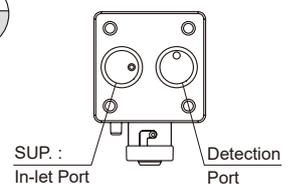
*1. Please use air filter to clean air (5 μm or less) and install precision regulator.



*2. Detection nozzle



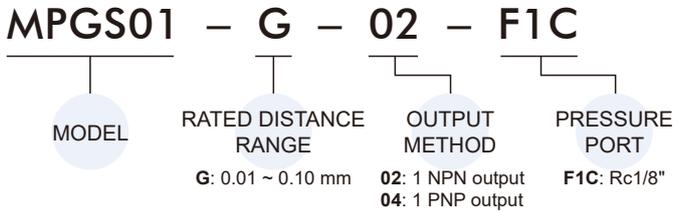
*3. Back side of product



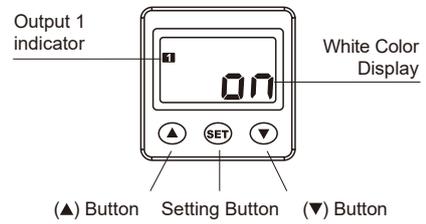
*4. Dustproof protector must be installed to maintain IP65.

GAP SENSOR

Order example



Panel instructions

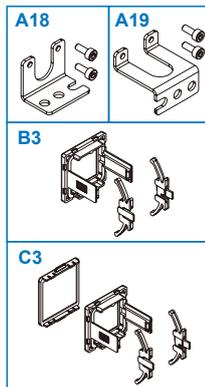


Mounting accessories (Option)

MP - A18

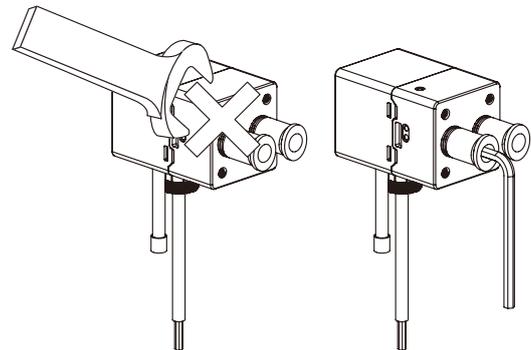
MODEL OPTION PARTS

A18: Mounting bracket
A19: Mounting bracket
B3: Panel adapter
C3: Panel adapter + Front protective lid



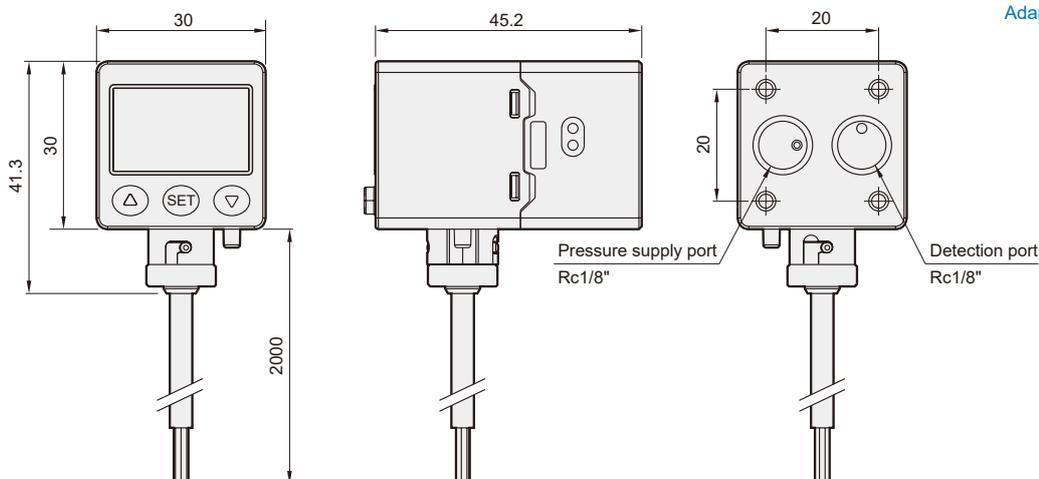
Installation precautions

- When mounting, don't apply tool fix to the body, it will damage the sensor.
- Over tightening may cause damages to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.



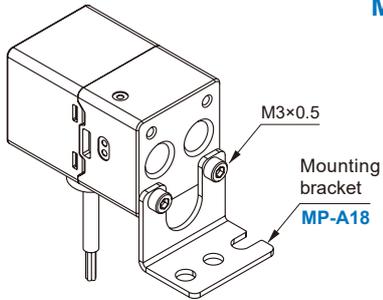
* Internal Hex Straight Tube-to-Tube Adaptors are recommended.

Dimensions

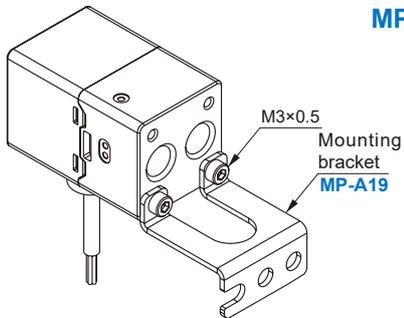
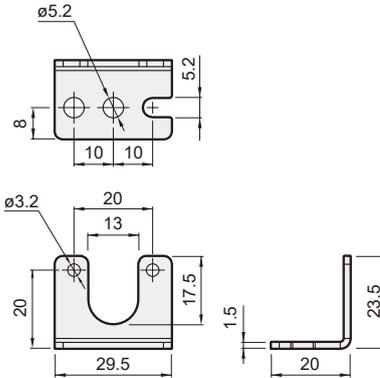


Mounting accessories

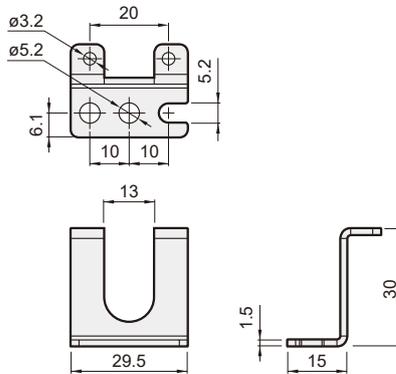
Mounting bracket



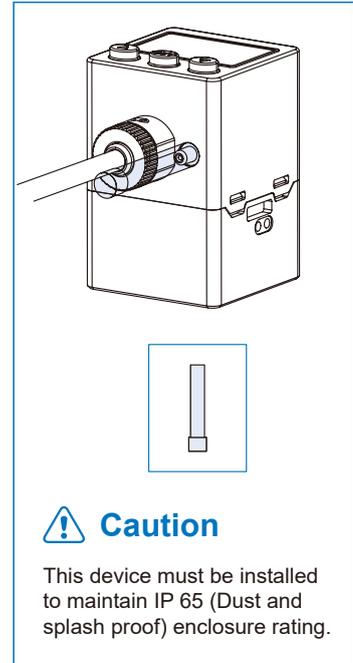
MP-A18



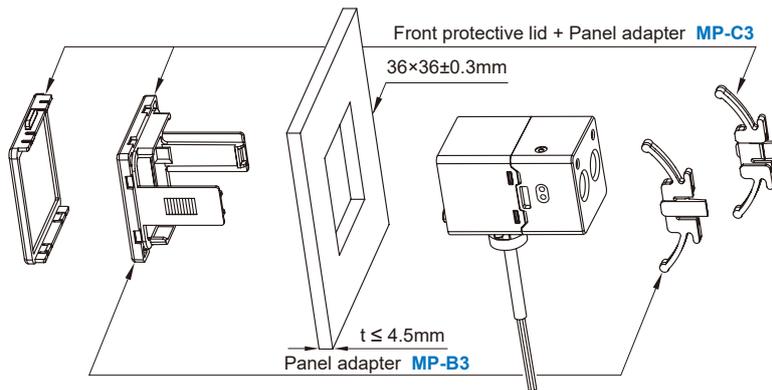
MP-A19



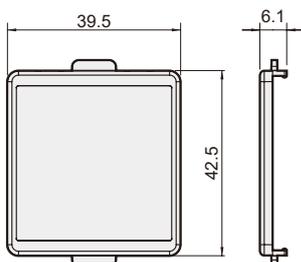
Dustproof



Panel type



Front protective lid



Panel adapter

