

## Features

- Simple installation, plug-in port or thread-in fitting
- Compact size : 30(L)x13(W)x12(H)mm
- Setting pressure range : -0.1 ~ 0.4 MPa  
(-14.5 ~ 58 psi)



## ■ SPECIFICATION

MODEL	AP101	AP102
0.4 MPa (58 psi) 0 -100 kPa (-14.5 psi)		
Operating pressure range	-0.1 ~ 1.0 MPa (-14.5 ~ 145 psi)	
Setting pressure range	-0.1 ~ 0.4 MPa (-14.5 ~ 58 psi)	
Withstand pressure	1.5 MPa (217 psi)	
Fluid	Filtered air, Non-corrosive/Non-flammable gas	

## ■ FEATURES HIGHLIGHT

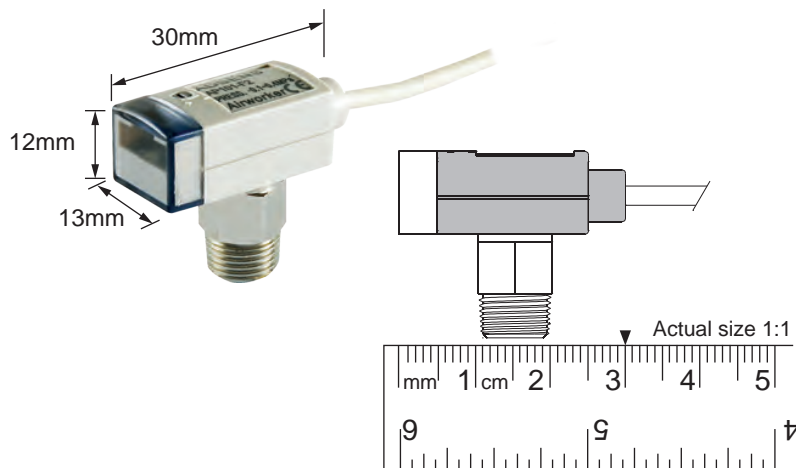
### 1 Simple installation

Plug-in port for push-to-connect fittings



### 2 Compact size

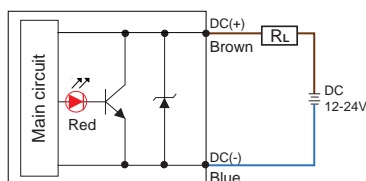
Extremely compact size 30(L)x13(W)x12(H)mm to fit the most confined areas



### ■ SPECIFICATION

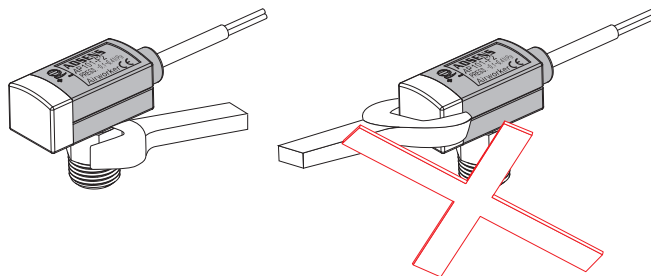
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Withstand pressure	1.5 MPa (217 psi)	
Fluid	Filtered air, Non-corrosive/Non-flammable gas	
Load voltage	12 to 24V DC $\pm 10\%$ , Ripple (P-P) 10% or less	
Load current	5~40mA	
Leak current	$\leq 1\text{mA}$	
Internal voltage drop	$\leq 5\text{V}$	
Switch output	Present Press. $\geq$ Set Press. : ON	Present Press. $\geq$ Set Press. : OFF
Repeatability	$\pm 1\%$ F.S.	
Response time	Approx. 1ms	
Hysteresis	$\leq 4\%$ F.S.	
Indicator	Red LED turns ON	
Enclosure	IP 40	
Temperature characteristic	$\leq 3\%$ F.S. of detected pressure (77 °F) at temp. Range of 32 ~ 122 °F	
Ambient temp. range	Operation : 32 ~ 140 °F (No condensation or freezing)	
Piping method	$\varnothing 6\text{ mm}$ ; $\varnothing 1/4$ ; R1/8", M5; NPT1/8", M5; G1/8"(BSPP), M5; M5 $\times$ 0.8P	
Lead wire	Oil-resistance cable, 2 wires (0.18mm <sup>2</sup> ), $\varnothing 2.6\text{mm}$ , 3M	
Weight	Approx. 39g (with 3-meter lead wire)	

### ■ CIRCUIT WIRING DIAGRAM



### ■ INSTALLATION PRECAUTIONS

- When mounting, always use the wrench on the metallic area near the pressure port. Never apply a wrench to the plastic 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.
- Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.



### ORDERING INFORMATION

**A P 1 0 1 - F 1 -**

#### Sensor Specification

101 : Sensor turns ON when the pressure is larger than setting pressure.

102 : Sensor turns OFF when the pressure is larger than setting pressure.

#### Cable Length / Connector

Blank : With 3-meter cable

C : With M8, 3-Pin male connector

#### Optional Part

KM83R-PVC-2M / KM83R-PVC-5M :  
M8, 3-Pin female cordset

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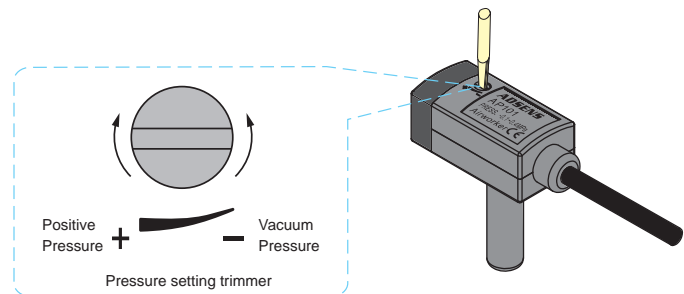


■ KM83R-PVC-2M  
KM83R-PVC-5M

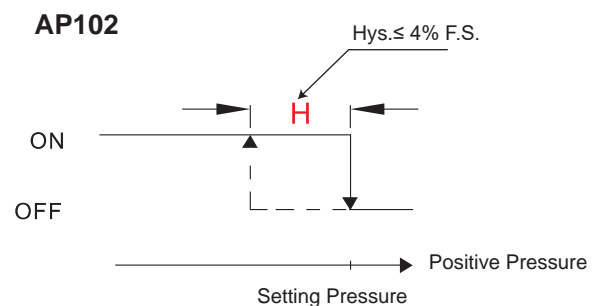
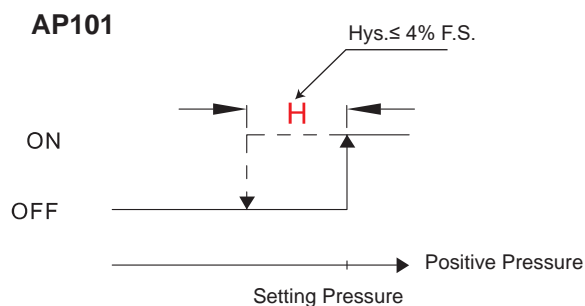
Pressure Port	R6 / 1/4"	F1 / F2 / F3	M5
Appearance			
Port size	R6 : Ø 6mm 1/4" : Ø 1/4"	F1 : R1/8", M5 F2 : NPT1/8", M5 F3 : G1/8"(BSPP), M5	M5 : M5 x 0.8P

### HOW TO SET PRESSURE

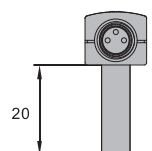
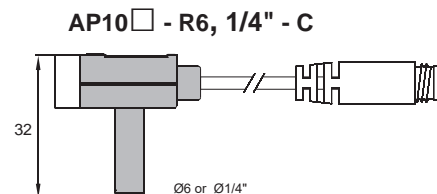
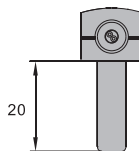
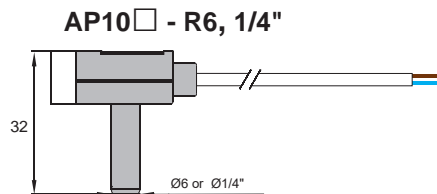
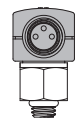
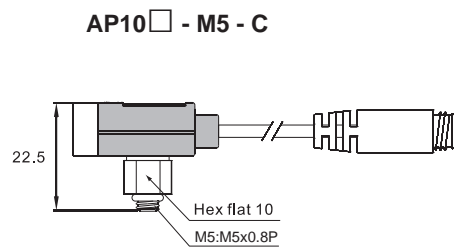
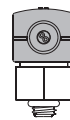
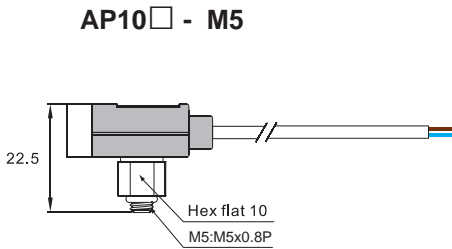
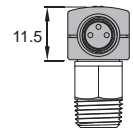
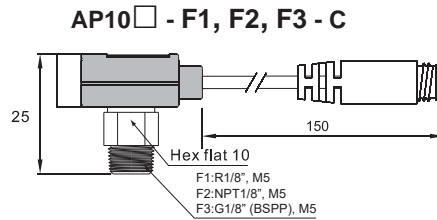
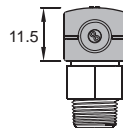
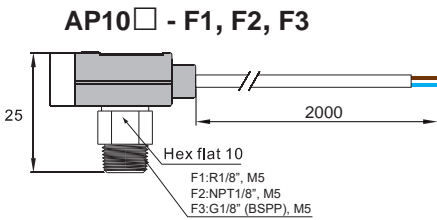
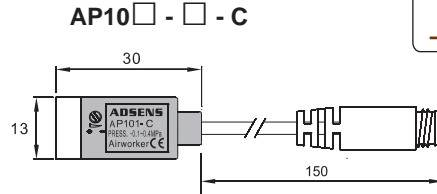
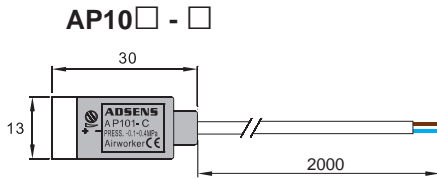
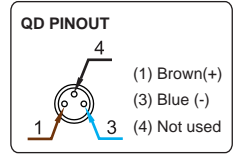
- Use the Pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint . Rotate counter-clockwise to decrease pressure setpoint .
- Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. To prevent damage to the Pressure setting trimmer, DO NOT force the trimmer when it comes to a stop.



### OUTPUT TYPE



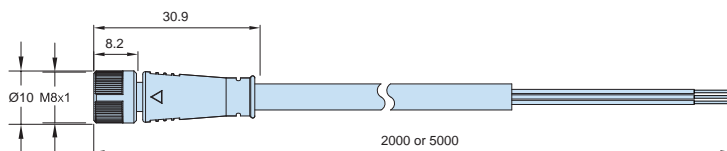
### DIMENSION



Unit:mm

### OPTIONAL PART DIMENSIONS

**M8 Female Cordset** Model : KM83R-PVC-2M \ KM83R-PVC-5M



Unit:mm

