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KEYENCE

Digital Pressure Sensor
AP-C/V Series



< Actual Size >

The World's Smallest Digital Pressure Sensor



Built-in
Amplifier type
AP-C30K Series



Separate
Amplifier type
AP-C40W Series



Separate Thin
Amplifier type
AP-V40AW Series

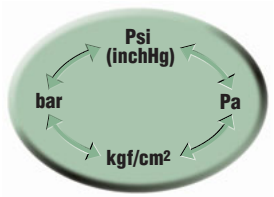
C type

Compact Pressure Sensor
The Ideal Size for Easy Installation and Operability

World's Smallest Model with the Largest Character Height

The world's most compact pressure sensor with a width of 1.18" (30 mm), height of 0.98" (25 mm) and the largest character height in its class of 0.43" (11 mm). Furthermore, the AP-C30K Series incorporates a very easy-to-see 2-color LED display





Unit conversion function
The pressure can be displayed in any of the four pressure units enabling it to be used worldwide.

Subminiature Digital Pressure Sensor
AP-C30K Series

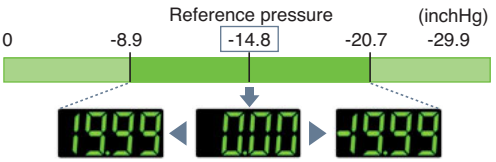
Highest Performance in its Class

Highest in Class **High Resolution: 10x Area Focus Function (AP-C31K and AP-C33K)**

Based on the set reference pressure, the detected pressure can be precisely displayed within a ±20% pressure range. The AP-C30K Series ensures a resolution of 0.01 inchHg*, which is the highest in its class. The AP-C30K also features a zero-shift function.

* When the AP-C31K is used in focus mode.

Reference pressure set to -14.8 inchHg (AP-C31K)



A range between -8.9 and -20.7 inchHg is displayed as shown above. "FFF" or "-FFF" will be displayed in excess of the focus range.

Industry's First **All-in-one I/O Function**

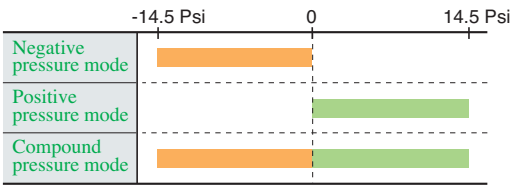
Independent 2-point output, analog monitor output, and a zero-shift input are incorporated as standard functions. There is no need to have multiple sensors to solve your pressure application.

* Either the analog output or zero-shift input is selectable.

Independent 2-point output | Analog monitor output | Zero-shift input

Industry's First **A Multi-range Model Playing Three Roles (AP-C30K)**

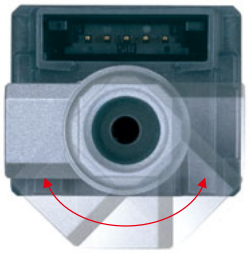
A new multi-range model is available, which supports a number of applications. By making setting changes, the AP-C30K can be used as a negative pressure model, positive pressure model, or a compound pressure model. Therefore, there is no need to keep a variety of models in stock.

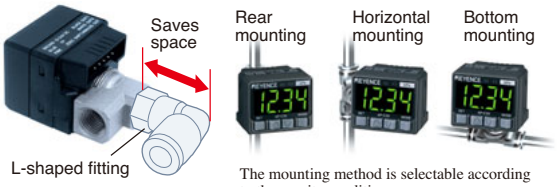


Flexible Mounting

World's First Rotary Pressure Port

The unit incorporates a pressure port that rotates 180˚, which directly connects to pipes in any direction. The pressure port is of non-slip structure. Therefore, the connection angle will not shift due to vibration. Furthermore, in the case of horizontal mounting, the unit does not require any L-shaped fittings, thus saving the space behind the rear panel.





The mounting method is selectable according to the on-site condition.

Connector-type Wiring Ensures Ease of Installation and Maintenance

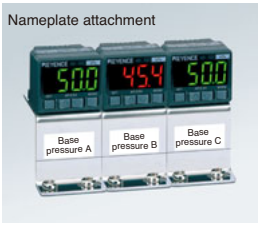
The wiring cables are provided with connectors for easy connection.

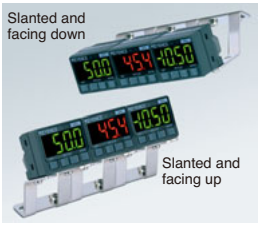


Power supply and I/O cables are provided with connectors that ensure ease of connection and disconnection.

Versatile Mounting using a variety of brackets

Four types of brackets allow mounting of the sensor up to 13 different ways, including a nameplate attachment type and a slanted type.











Flush side-by-side mounting

A newly designed panel attachment allows side-by-side close mounting vertically or horizontally, thus saving space.



Front protection cover



Unrivaled Ease of Use

As Easy as Fiberoptic Sensors

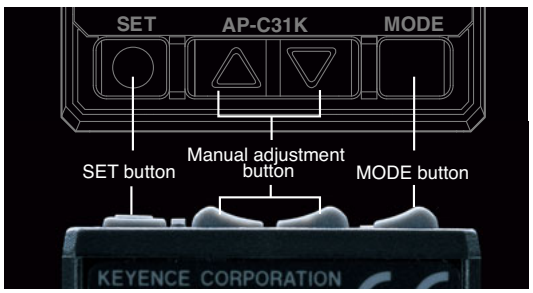
The button arrangement of the AP-C30K models is the same as fiberoptic sensors. Auto tuning is possible by just pressing the SET button. Furthermore, it allows manual threshold value adjustments, thus making it possible to operate the unit just like fiberoptic sensors.



DIRECT ACCESS
Direct access to threshold values

Button Layout Based on Human Ergonomics

The buttons are laid out with importance attached to operability. For example, the SET button is placed at a lower level to prevent operational mistakes, such as pressing more than one button simultaneously.



V type

High-speed, High-precision, Separate Amplifier Type with No Pneumatic Tubing Layout Required

Separate Sensor Head and Amplifier

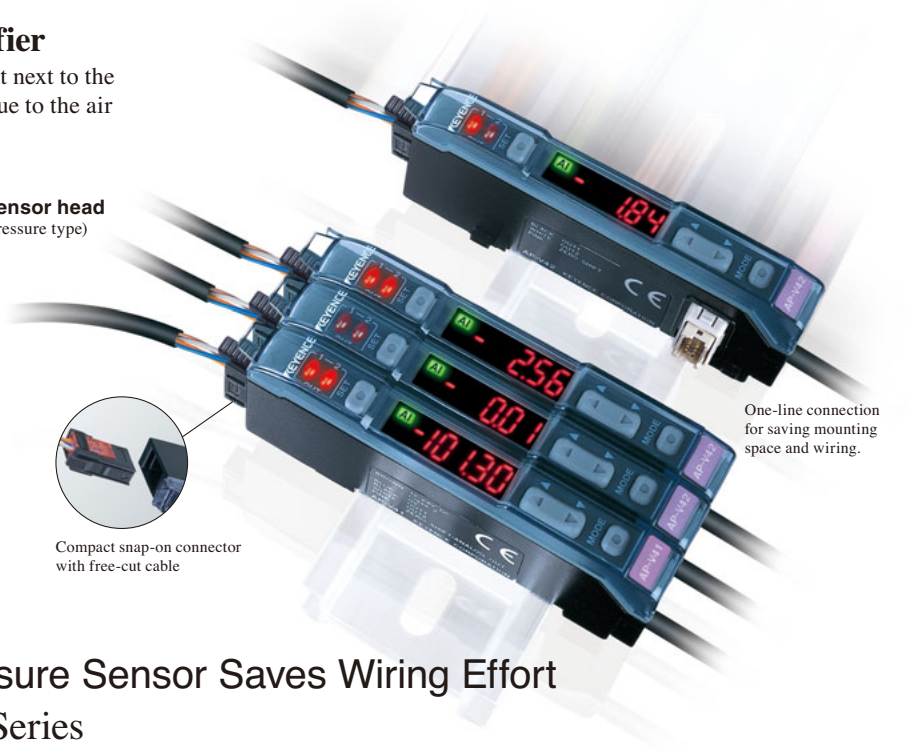
The subminiature sensor head can be mounted right next to the detection point. As a result, loss of response time due to the air tube length is eliminated.



Subminiature sensor head
AP-41M (Negative pressure type)

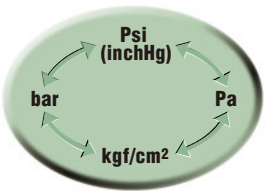
Super-tough Electrical Cable

The cable is highly flexible, thus allowing easy routing and handling compared to urethane tubing.



One-line connection for saving mounting space and wiring.

Compact snap-on connector with free-cut cable



Unit conversion function
The pressure can be displayed in any of four pressure units enabling it to be used worldwide.

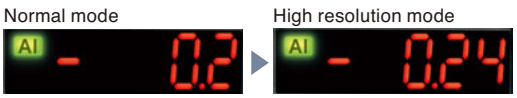
Digital Pressure Sensor Saves Wiring Effort
AP-V40AW Series

Features

Highest in Class High resolution: 10x

The AP-41M and AP-41 can achieve a resolution of 0.01 inchHg. A minute difference in pressure can be stably detected.

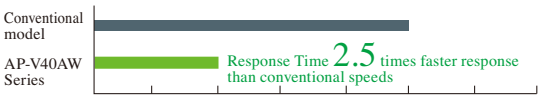
* High-resolution mode



The unit displays the present value down to 1/100 of a digit, thus allowing fine settings.

Highest in Class 1 ms High-speed Response

The AP-V40AW Series ensures a response time as low as 1 ms. The AP-V40AW Series has an analog monitor output without any delay, because the processing time is only 1 ms.



Industry's First All-in-one I/O Function (AP-V41AW)

Independent 2-point output, analog monitor output, and a zero-shift input are incorporated as standard functions. There is no need to select multiple sensors to solve your applications.

* Either the analog output or zero-shift input is selectable.

Independent 2-point output | Analog monitor output | Zero-shift input

World's First New AI (Artificial Intelligence) Tuning Function Incorporated

The pressure change is sampled while the system is in operation, and the optimum zero-shift timing and threshold values are automatically set. Suction check can be easily done.



New-style Amplifier

Operation is Just Like Fiberoptic Sensors

Auto tuning of the AP-V40AW Series is possible by just pressing the SET button. Furthermore, manual threshold value adjustment is made possible with a simple rocker switch. The AP-V40AW Series operates just like our fiberoptic sensors.



Industry's First Space-saving Design

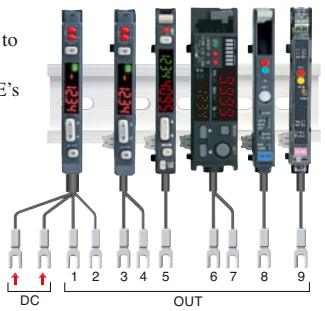
The amplifier is only 0.35" (9 mm) wide, which is the industry's thinnest model. A number of units can be coupled and installed side-by-side, minimizing the required mounting space.



Industry's First The Industry's First Wire-saving Pressure Sensor

The one-line system supplies power through the connector to the expansion units on the side of the main amplifier. This eliminates two wires from each expansion unit. KEYENCE's Fiberoptic Sensors and Laser Sensors can be used in combination with the AP-V.
(If only AP-VAW amplifiers are used, a maximum of eight expansion units can be coupled.)

Main unit: AP-V41AW
Expansion unit: AP-V42AW

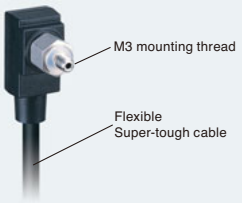


From left to right
AP-V41AW
Pressure Sensor
AP-V42AW
Pressure Sensor
FS-V22
Fiberoptic Sensor
LV-22A
Laser Sensor
PS-T2
Photoelectric Sensor
ES-M2
Proximity Sensor

Versatile head variations for every application

Subminiature Sensor Head

AP-41M (Negative Pressure Type)



Half the size of the Conventional Model and Ultra-light Weight of 4.8 g

The head is 0.68" (L) x 0.41" (W) x 0.27" (H) (17.3 (L) x 10.3 (W) x 6.8 (H) mm) in size, the volume of which is half the size of conventional ones. Furthermore, the head weighs only 4.8 g and is ideal for compact, high-speed suction devices.

Compact Sensor Head

AP-41 (Negative pressure model)
AP-43 (Positive pressure model)
AP-44 (Compound pressure model)



Multi-Purpose Sensor Supporting Most Pressure Applications

Negative pressure, positive pressure, and compound pressure models are all available. The AP-41, AP-43, and AP-44 are compact and suitable for most applications, including suction checks, base pressure control and leak testing.

The High-precision, Separate Amplifier Cube Models

C type

- Industry's most compact amplifier
- Easy-to-see, large, two-color LED display
- High-resolution (10x), area focus function
- Fast response time of 1 ms
- Supports zero-shift input
- Zero-shift timer incorporated
- Analog output function incorporated
- Active two-point tuning function incorporated



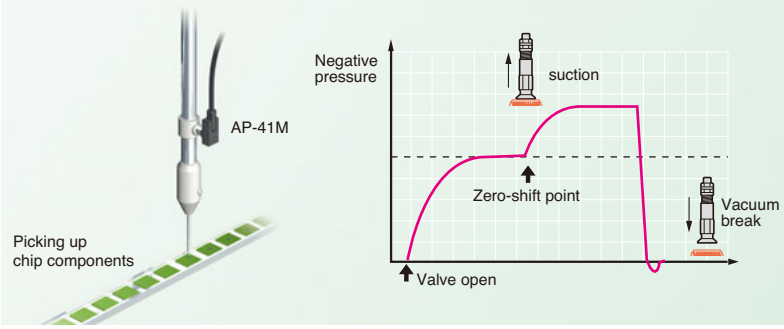
Separate Amplifier Type
Subminiature Digital Pressure Sensor
AP-C40W Series

Versatile Application Solving Functions

Suction Check

[F-1 mode] [A-1 mode] Recommended models AP-C30K/C31K
AP-41(M)/44

[Point 1] Zero-shift Ensures Pressure Change is only Monitored During Suction.



The zero-shift function forces the set pressure value before suction to zero so that only the change of suction is detected. This function cancels the influence of fluctuation in base pressure and the change of temperature, thus making it possible to detect the displacement only. A single negative pressure model as well as a single compound pressure model makes it possible to detect both suction and vacuum break pressures.

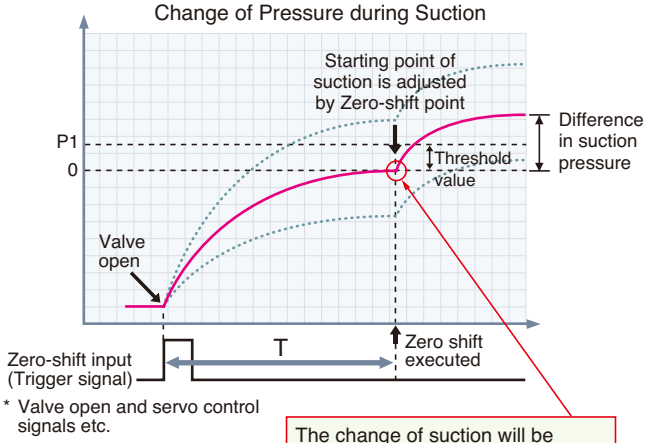
[Point 2] Dedicated Suction Check Mode to Ensure Stable Detection

AP-C/V models incorporate the A-1 mode (a dedicated suction check mode). In order to make stable suction checks, it is necessary to make a zero shift at a point as close as possible to the starting port of suction. AP-C/V models incorporate a zero-shift timer which can set in 1-ms increments the time between the input of the zero-shift signal and the moment a zero shift is executed.

AI Tuning Sets All Values Automatically

AI tuning samples the difference in pressure of equipment during continuous operation, and calculates the optimum zero-shift timer value (T) and the threshold value (P1), thus making ideal settings automatically. (AP-V model only)

Change of Pressure during Suction



* Valve open and servo control signals etc.

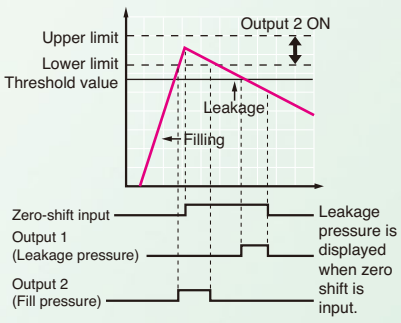
The change of suction will be detected precisely, without being influenced by external disturbances, such as the change of base pressure, if the pressure at this point is shifted to the reference value (zero).

Leakage Test

[A-2 mode] Recommended models AP-C30K/C33K
AP-43/44

[Point 1] Detects Both Fill and Leakage Pressure


PET bottle leakage test



Output 1 detects leakage pressure
Output 2 detects fill pressure

1. When the air/gas builds up to a certain pressure, output2 turns on and closes the valve. Zero-shift is also set.
2. Only the difference in displacement pressure due to leakage will be displayed while the zero shift is ON.
3. The pressure change due to leakage is checked with output1.
4. Normal pressure will be displayed when the zero-shift function turns OFF. Then the fill pressure can be checked again.
(Output 2 always detects the difference from atmospheric pressure.)

A single unit plays two display roles.

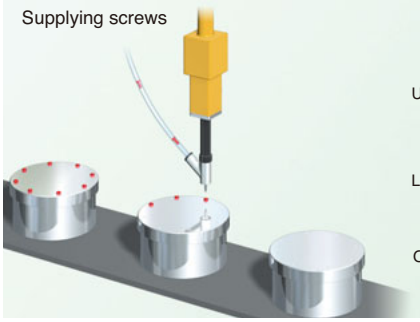


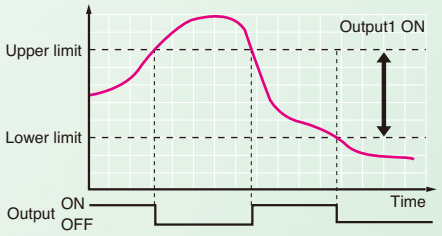
*Output 1 will be displayed while zero-shift input is ON when in A-2 mode.

Base Pressure Control

[F-3 mode] Recommended models AP-C33K
AP-43

[Point 1] Upper and Lower "Window" Tolerances are easily set.



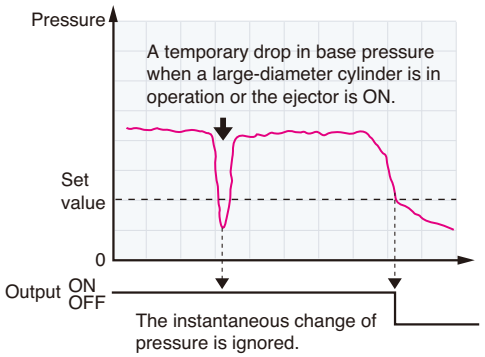


Window Mode [F-3]

Base pressure monitoring is possible by just setting upper and lower pressure limits. Moreover, the output will turn OFF in the event of wire disconnection as if an error in pressure is detected. Use the F-1/F-2 modes to allow two independent outputs for the upper and lower limit values.

[Point 2] Chatter Prevention

The chatter prevention function is incorporated so that instantaneous changes in pressure can be ignored.



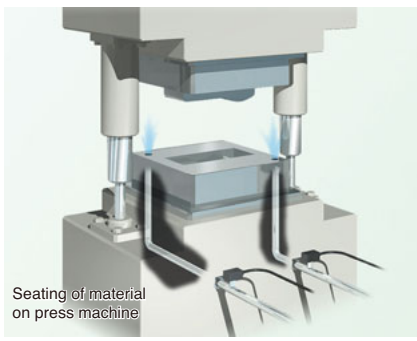
[Point 3] Easy-to-see 2-color LED Display

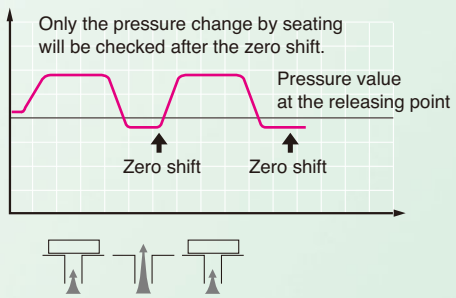
Using two colors allows an error to be instantly recognized (Green while in normal operation and red when pressure is in excess of the upper or lower limit).

Seating Check

[F-1 mode] Recommended models AP-C30K/C33K
AP-43/44

[Point 1] Zero-shift Function Cancels Base Pressure Fluctuation

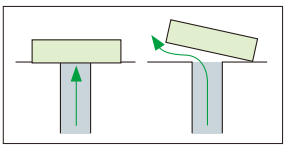




By performing a zero shift at the time of starting the system, a seating check will be made according to the base pressure of the day. By performing a zero shift before the valve is seated, a lighter pressure change can be detected.

[Point 2] Resolution: 10x

If the high-resolution mode (on the AP-V40AW Series) or the area focus mode (excluding the AP-C30K) is used, the AP can not only check the existence of the workpiece but also check the delicate difference in pressure caused by positioning of the workpiece.



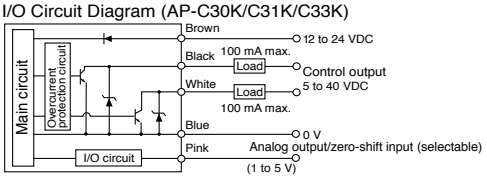
Specifications

Type		Multi range			Negative pressure	Positive pressure
Model	NPN	AP-C30K			AP-C31K	AP-C33K
	PNP	AP-C30KP			AP-C31KP	AP-C33KP
		145 Psi 29.9 inchHg 0 -29.9 inchHg				
Rated pressure range		Negative pressure mode 0 to -29.9 inchHg	Positive pressure mode 0 to 29.5 inchHg	Compound pressure mode 29.9 to -29.9 inchHg	0 to -29.9 inchHg	0 to 145.0 Psi
Proof pressure		500kPa				1.5MPa
Fluid type		Air or non-corrosive gases				
Pressure type		Gauge pressure				
Electrical rating	Power supply voltage	12 to 24 VDC ±10% with ripple (p-p) of 10% max.				
	Power consumption		12 V	24 V		
		Normal	720 mW (60 mA) max.	960 mW (40 mA) max.		
		Economical mode	480 mW (40 mA) max.	720 mW (30 mA) max.		
Display		3 1/2-digit, 2-color, 7-segment LED (Character height: 0.43" (11 mm)) Display cycle: 10 times/s				
Set and display range [1]		-10 to +110% of F.S.			-15 to +110% of F.S.	
Operation indicator		Red LED x 2 (corresponding to control output 1 and 2)				
Resolution	Multi range	Negative 0.1 inchHg	Positive 0.1 inchHg	Compound 0.1 inchHg	—	
	Normal mode	—			0.1 inchHg	0.2 Psi
	Focus mode				0.01 inchHg	0.02 Psi
Hysteresis [2]		Variable (Standard: 0.5% of F.S.)				
Display temperature characteristic		±1% of F.S. max.				
Response time (chatter prevention function)		2.5, 5, 100, or 500 ms (selectable)				
Zero-shift input		Input time: 2 ms or more. (or analog output selectable)				
Control output		NPN open collector 100 mA max. (at 40 V or below) with max. residual voltage of 1 V, 2 outputs (NO or NC selectable)				
Analog output		1 to 5 V with load impedance of 1 kΩ max. (or zero-shift input selectable)				
Ambient temperature		0 to 50°C (32 to 122°F), No condensation				
Relative humidity		35 to 85%, No condensation				
Vibration		10 to 55 Hz, 0.06" 1.5 mm double amplitude in X, Y, and Z directions, 2 hours respectively				
Pressure port		NPT 1/8 180° rotation				
Material		Front housing: Polysulfone, Rear housing: PBT, Front seat: Polycarbonate, Pressure port: Zinc die-casting				
Weight		Approx. 30 g (without cable) Approx. 85 g (with 6.6' 2-m cable)				
Accessory		Power supply cord (6.6' 2-m with connector), Unit seal [3]				

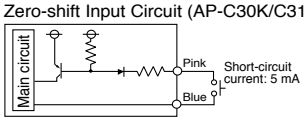
1. The focus range applies while in focus mode only. 2. A standard of 0.2% of FS applies while in focus mode. 3. The seal is provided with the AP-C33K only.

Connection Diagrams

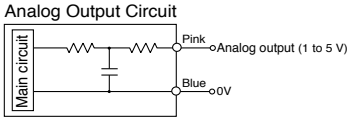
I/O Circuit Diagram (AP-C30K/C31K/C33K)



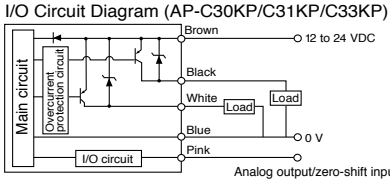
Zero-shift Input Circuit (AP-C30K/C31K/C33K)



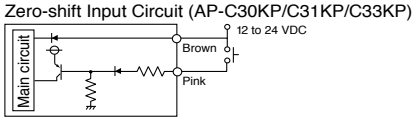
Analog Output Circuit



I/O Circuit Diagram (AP-C30KP/C31KP/C33KP)



Zero-shift Input Circuit (AP-C30KP/C31KP/C33KP)



Display Unit Selection Chart

Display unit can be changed by setting as shown below.

AP-C30K Series

Model		Multi range AP-C30K	Negative pressure AP-C31K	Positive pressure AP-C33K
Setting	PA	kPa	kPa	MPa (kPa)
	GF	kg/cm²	—	kg/cm²
	nnH	mmHg	mmHg	—
	inH	inHg	inHg	—
	Psi	psi	psi	psi
	Bar	bar	bar (mbar)	bar

( ) shows the data in Focus mode.

AP-C40W/V40AW Series

Model		Negative pressure AP-41	Positive pressure AP-43	Multi range AP-44
Setting	PA	kPa	Mpa (kPa)	kPa
	GF	—	kgf/cm²	—
	nnH	mmHg	—	mmHg
	inH	inHg	—	inHg
	Psi	psi	psi	psi
	Bar	bar (mbar)	bar	bar (mbar)

( ) shows the data in Focus (AP-C40) or High-Resolution (AP-V40A) mode.

AP-V40AW/C40W

Sensor Head Variations

Shape	Rated pressure range*	Pressure type	Major application	-29.9 inchHg 0 29.9 inchHg 145 Psi	Model
	0 to -29.9 inchHg	Negative pressure	Suction check		AP-41M
	0 to -29.9 inchHg	Negative pressure	Suction check		AP-41
	0 to 145.0 Psi	Positive pressure	Base pressure control and leakage test		AP-43
	29.9 to -29.9 inchHg	Compound pressure	Suction check and vacuum break check		AP-44

*The set pressure range is between -15 and 110% of the rated pressure range.

Specifications

Sensor Head

Model	AP-41M	AP-41	AP-43	AP-44
Rated pressure range	0 to -29.9 inchHg		0 to 145.0 Psi	29.9 to -29.9 inchHg
Proof pressure	500kPa		1.5MPa	500kPa
Fluid type	Air or non-corrosive gases			
Pressure type	Gauge pressure			
Temperature characteristic	±2% of F.S. max.			
Pressure port	M5 (M3) male screw			
Ambient temperature	0 to 50°C (32 to 122°F), No condensation			
Relative humidity	35 to 85%, No condensation			
Vibration	10 to 55 Hz, 0.06" 1.5mm double amplitude in X, Y, and Z directions, 4 hours respectively			
Shock	1,000 m/s² in X, Y, and Z directions 10 times respectively (60 times in total)			
Material	Housing: PBT, Screw: Stainless steel			
Weight	7 g (without cable) 70 g (with 9.8' 3-m cable) (41M: 4.8 g / 67.8 g)			

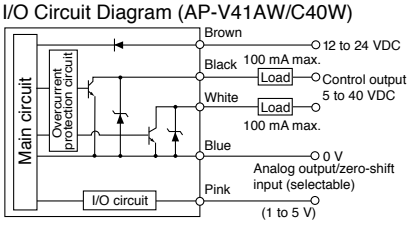
Amplifier Unit

Model	NPN	AP-V41AW/V42AW/C40W					
	PNP	AP-V41AWP/V42AWP/C40WP					
Applicable sensor head		AP-41M/41		AP-43		AP-44	
Electrical rating	Power supply voltage	12 to 24 VDC ±10% with ripple (p-p) of 10% max.					
	Power consumption	AP-V41AW/V42AW	12 V	24 V	AP-C40W	12 V	24 V
		Normal	720 mW (60 mA) max.	960 mW (40 mA) max.	Normal	780 mW (65 mA) max.	1080 mW (45 mA) max.
		Economical mode	480 mW (40 mA) max.	720 mW (30 mA) max.	Economical mode	540 mW (45 mA) max.	840 mW (35 mA) max.
Display	AP-V41AW/V42AW	4 1/2-digit, 2-color, 7-segment LED (Character height: 0.18" 4.5 mm) AI indicator (green) Display cycle: 10 times/s					
	AP-C40W	3 1/2-digit, 2-color, 7-segment LED (Character height: 0.43" 11 mm Display cycle: 10 times/s					
Set and display range		-15 to 110% of F.S. [2]					
Operation indicator		Red LED x 2 (corresponding to control output 1 and 2)					
Resolution	Standard mode	0.1 inchHg		0.01 kgf/cm²		0.1 inchHg	
	High-resolution/Focus mode	0.01 inchHg		0.02 Psi		0.01 inchHg	
Repetitive precision		±0.2% of F.S.					
Hysteresis		Variable (Standard: 0.5% of FS; high-resolution/focus mode: 0.1% of F.S.)					
Display temperature characteristics		±1% of F.S. max.					
Response time (chatter prevention function)		1 (in high-speed mode only), 2.5, 5, 100, or 500 ms (selectable)					
Zero-shift input		Input time : 2 ms or more. (or analog output selectable)					
Control output		NPN open collector 100 mA max. (at 40 V or below) [3] with max. residual voltage of 1 V, 2 outputs (NO or NC selectable)					
Analog output [1]		1 to 5 V with load impedance of 1 kΩ max. (or zero-shift input selectable)					
Ambient operating temperature		0 to 50°C (32 to 122°F), No condensation					
Ambient operating humidity		35 to 85%, No condensation					
Vibration resistance		10 to 55 Hz, 0.06" 1.5 mm double amplitude in X, Y, and Z directions, 2 hours respectively					
Material	AP-V41AW/V42AW	Polycarbonate					
	AP-C40W	Front housing: Polysulfone, Rear housing: PBT, Front seat: Polycarbonate					
Weight		AP-V41AW and AP-V42AW: Approx. 80 g (with 6.6' 2-m cable) AP-C40W: Approx. 74 g (with 6.6' 2-m cable)					
Accessory	AP-V41AW/V42AW	Mounting bracket (AP-V41AW), End unit (AP-V42AW), Head connector, and Expansion seal (AP-V42AW)					
	AP-C40W	Power supply cord (6.6' 2-m cable with connector), Head connector, and Unit seal					

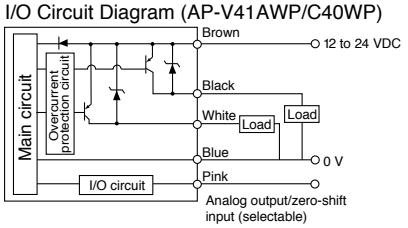
1. Only the AP-V41AW(P) (Main unit) and AP-C40W(P) apply. 2. The focus range applies while in focus mode only.
3. The maximum current is 20 mA if the AP-V42AW as an expansion unit is installed.

Connection Diagrams

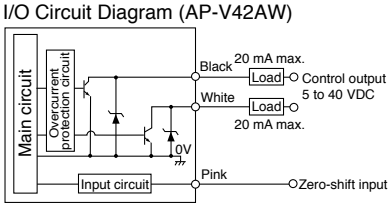
I/O Circuit Diagram (AP-V41AW/C40W)



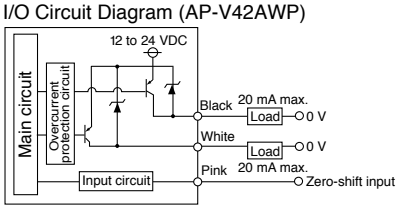
I/O Circuit Diagram (AP-V41AWP/C40WP)



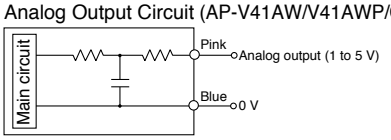
I/O Circuit Diagram (AP-V42AW)



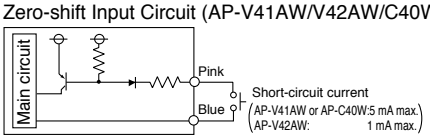
I/O Circuit Diagram (AP-V42AWP)



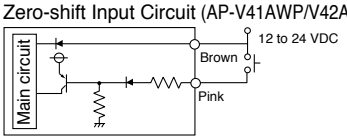
Analog Output Circuit (AP-V41AW/V41AWP/C40W)



Zero-shift Input Circuit (AP-V41AW/V42AW/C40W)



Zero-shift Input Circuit (AP-V41AWP/V42AWP/C40WP)



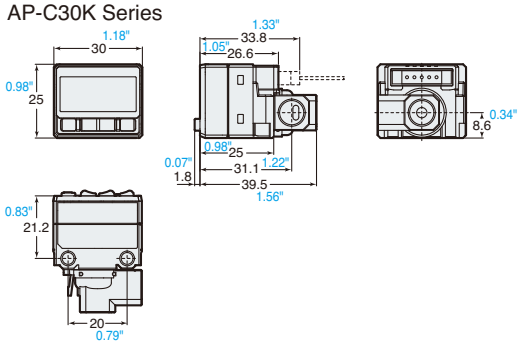
AP-C30K/C40W

Dimensions

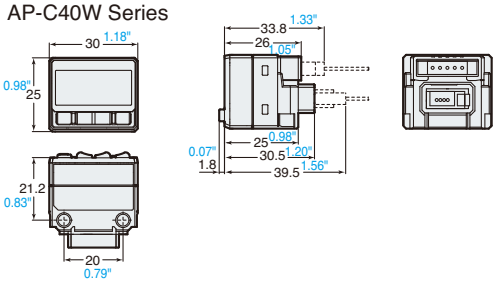
Unit: mm Inch

Amplifier Unit

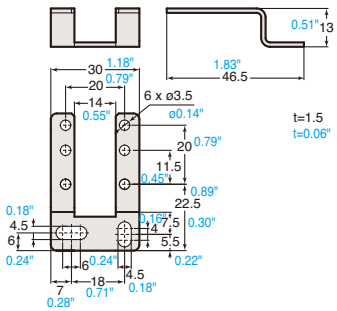
AP-C30K Series



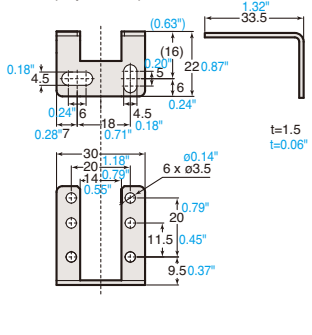
AP-C40W Series



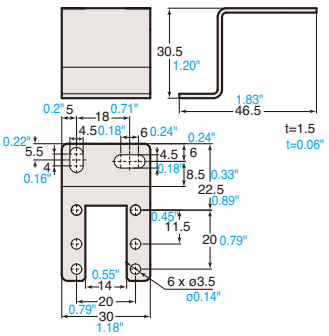
AP-B01 Mounting Bracket (Optional)



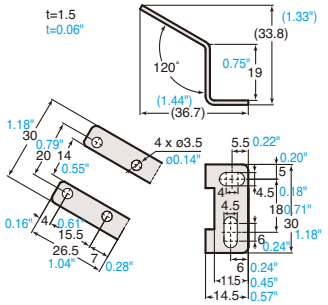
AP-B02 Mounting Bracket (Optional)



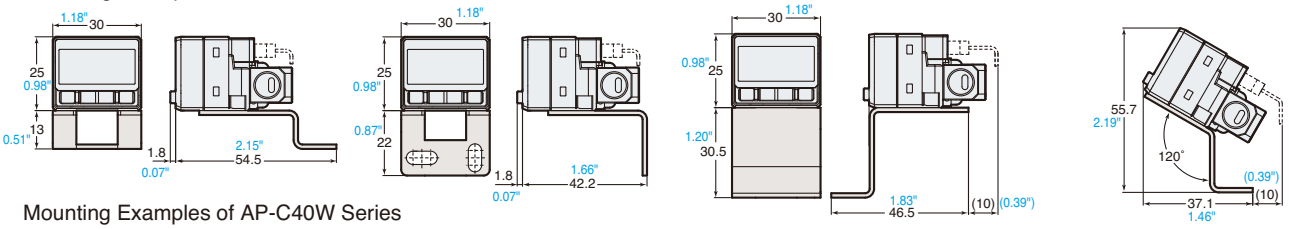
AP-B03 Mounting Bracket (Optional)



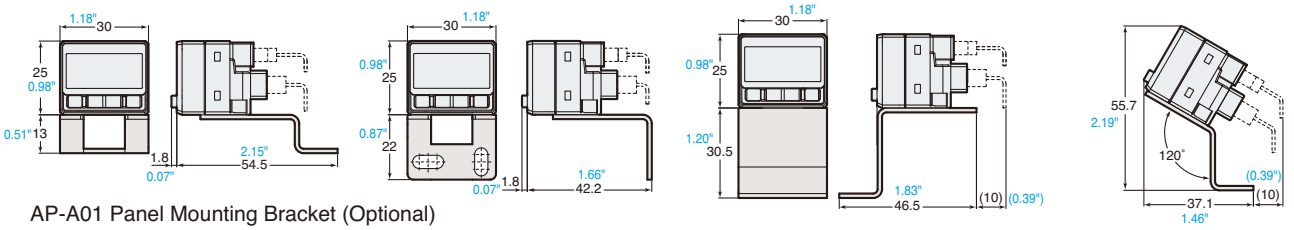
AP-B04 Mounting Bracket (Optional)



Mounting Examples of AP-C30K Series

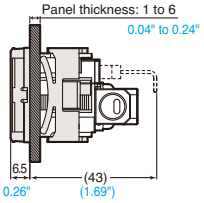


Mounting Examples of AP-C40W Series

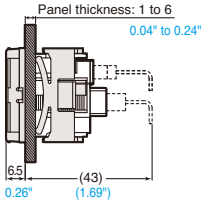


AP-A01 Panel Mounting Bracket (Optional)

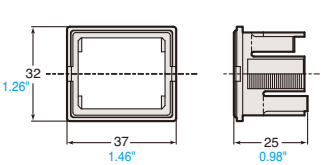
Mounting Examples of AP-C30K Series



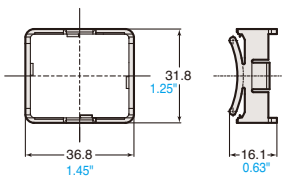
Mounting Examples of AP-C40W Series



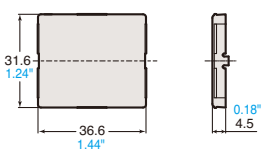
Panel Mounting Bracket



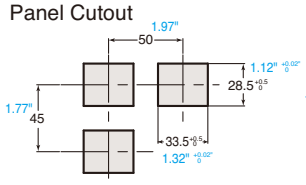
Panel Mounting Ring



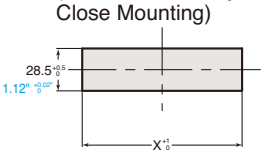
Protective Front Cover



Panel Cutout

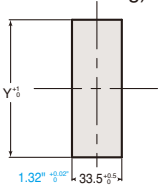


(Horizontal Side-by-side Close Mounting)



Number of units mounted: A
X=33.5+(A-1)x37
X=1.32"+(A-0.04")x1.46"

(Vertical Side-by-side Close Mounting)



Number of units mounted: A
Y=28.5+(A-1)x32
Y=1.12"+(A-0.04")x1.26"

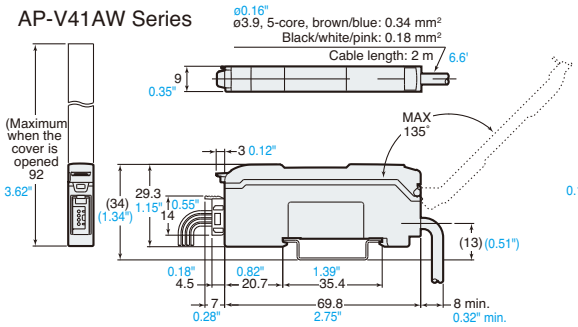
AP-V40AW

Unit: mm Inch

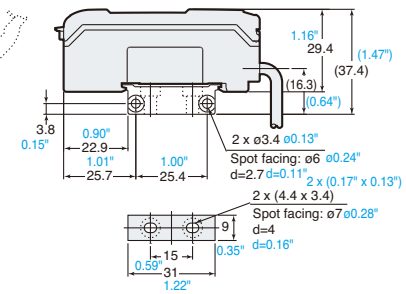
Dimensions

Amplifier Unit

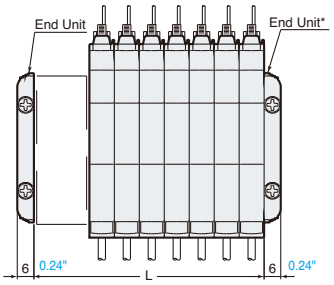
AP-V41AW Series



With Mounting Bracket (included with AP-V41AW)

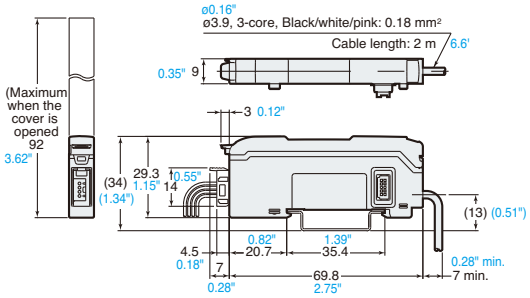


When several units are connected

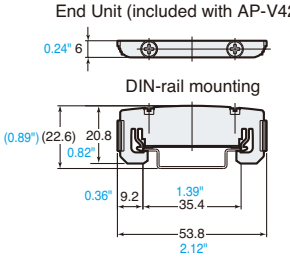


* When using expansion units, be sure to use the end unit.

AP-V42AW Series



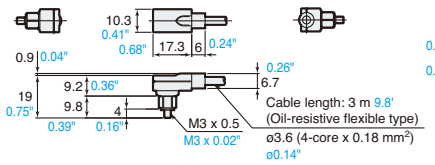
End Unit (included with AP-V42AW)



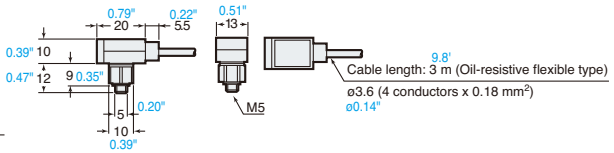
No. of expansion units	L (mm)
1	0.71" 18
2	1.06" 27
3	1.42" 36
4	1.77" 45
5	2.13" 54
6	2.48" 63
7	2.83" 72
8	3.19" 81

Sensor Head

AP-41M



AP-41/43/44



AP-C30K and AP-C40W Use

Horizontal Mounting Bracket AP-B01



Wall Mounting Bracket AP-B02



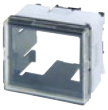
Nameplate Mounting Bracket AP-B03



Slanted Mounting Bracket AP-B04



Panel Mounting Bracket AP-A01













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