




AP-40  
Amplifier Unit NPN



\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.



This model has been discontinued.  
Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [Network Compatible Pressure Sensor - AP-N series](#)

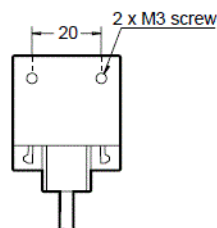
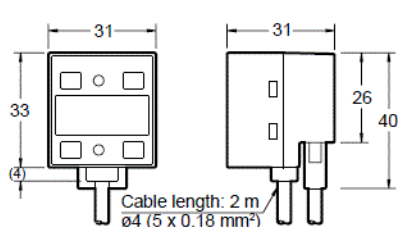
Specifications

Model		AP-40
Type		Main unit, NPN
Applicable sensor head		AP-41, AP-43, AP-44
Rated pressure		-15 to +110 % of F.S.
Display		3 1/2-digit, 2-color, 7-segment LED (Character height: 11 mm 0.43"), Display cycle: 5 times/sec.
Display resolution		AP-41: 0.1 kPa, 1 mmHg, 0.1 inchHg, 0.001 bar AP-43: 0.001 MPa, 0.01 kgf/cm², 0.2 Psi, 0.01 bar AP-44: 0.2 kPa, 2 mmHg, 0.1 inchHg, 0.002 bar
Display temperature characteristic		±1.0 % of F.S.
Temperature fluctuation for analog output		±2.0 % of F.S.
Mounting		With supplied mounting bracket (2 types) or optional panel mounting bracket
Response time (Chattering prevention function)		2.5/5/100/500 ms
I/O	Control output	NPN open-collector: 100 mA max. (40 V max.), Residual voltage: 1 V max. 2-output (N.O./N.C. selectable)
	Analog voltage output	1 to 5 V
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple 10 % or less
	Current consumption	105 mA (12 V), 55 mA (24 V) (including sensor head)
Environmental resistance	Ambient temperature	0 to +50 °C 32 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z axis
	Shock resistance	100 m/s², 3 times in each of X, Y and Z axis
Material		Front housing: Polyamide, Rear housing: Polysulfone
Weight		80 g (including 2 m 6.6' cable) (28 g without cable)

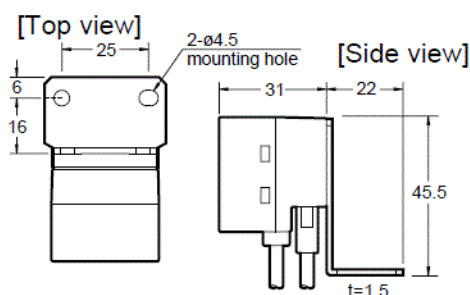
## Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

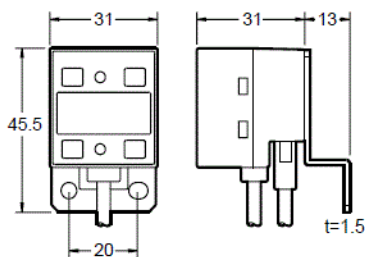
### AP-40/40Z



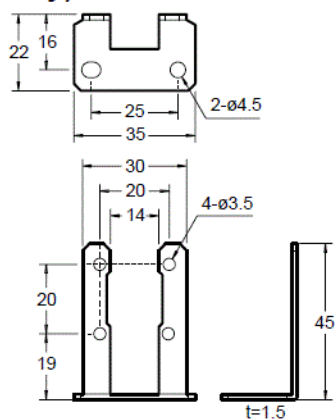
#### When mounting bracket A is attached



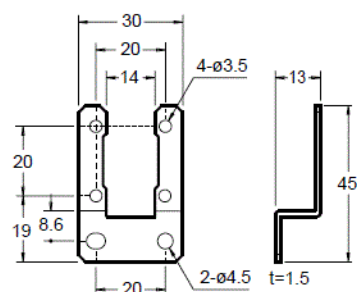
#### When mounting bracket B is attached



#### Mounting bracket A (Accessory)



#### Mounting bracket B (Accessory)

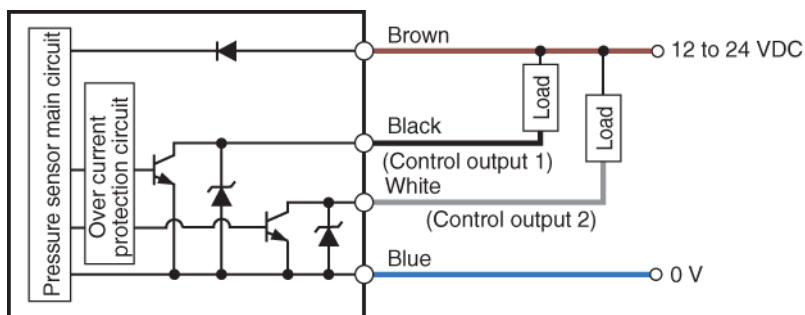


Unit: mm

## I/O Circuit Connection diagram

\* Download CAD file or product manual for larger image/text and more detail.

AP-40 Series  
Output circuit  
NPN



## Analogue output circuit

