



AP-V41AW  
Amplifier Unit, Main Unit, NPN



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

Specifications

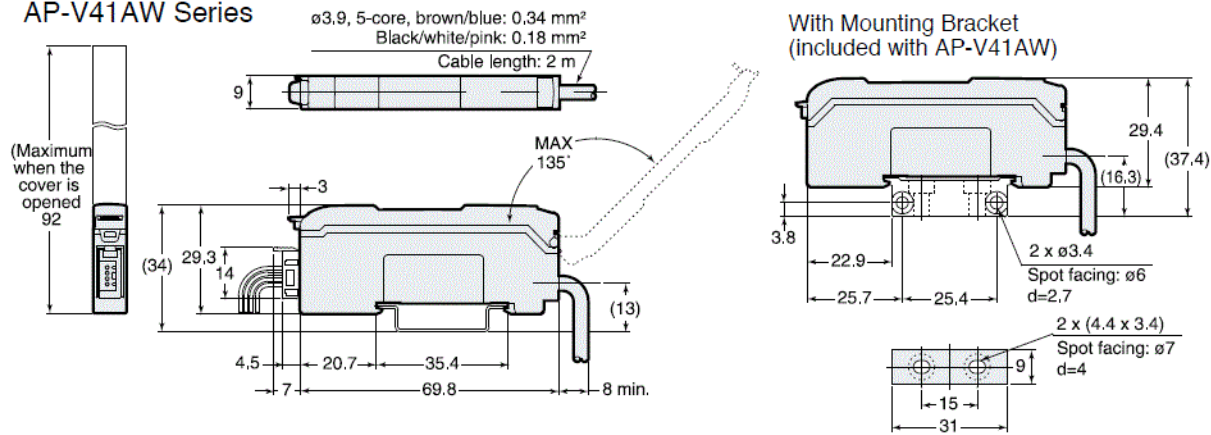
Model			AP-V41AW
Type			Amplifier Unit, NPN
Applicable sensor head			AP-41M, AP-41, AP-43, AP-44
Set and display range			-15 to +110 % of F.S.*1
Display			4 1/2-digit, 2-color, 7-segment LED (Character height: 4.5 mm 0.18"), AI indicator (green), Display cycle: 10 times/s
Operation indicator			Red LED x 2 (corresponding to control output 1 and 2)
Repeatability			±0.2 % of F.S.
Display resolution			AP-41M/41/44: Standard mode 0.1 inchHg, High-resolution/Focus mode 0.01 inchHg AP-43: Standard mode 0.01 kgf/cm <sup>2</sup> , High-resolution/Focus mode 0.02 Psi
Power consumption	Normal		12 V: 720 mW (60 mA) max., 24 V: 960 mW (40 mA) max.
Display temperature characteristic			±1 % of F.S. max.
Hysteresis			Variable (Standard: 0.5 % of FS; high-resolution/focus mode: 0.1 % of F.S.)
Response time (Chattering prevention function)			1 (in high-speed mode only), 2.5, 5, 100, or 500 ms (selectable)
I/O	Analog output		1 to 5 V with load impedance of 1 kΩ max. (or zero-shift input 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)
Rating	Power voltage		12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Power consumption	Eco mode	12 V: 480 mW (40 mA) max., 24 V: 720 mW (30 mA) max.
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 directions
Material			Polycarbonate
Accessories			Mounting bracket, Head connector
Weight			Approx. 80 g (with 2-m 6.6' cable)

\*1 The focus range applies while in focus mode only.

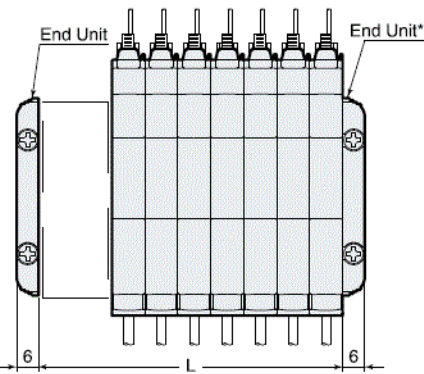
Dimensions

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

Amplifier Unit  
AP-V41AW Series



When several units are connected



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

No. of expansion units	L (mm)
1	18
2	27
3	36
4	45
5	54
6	63
7	72
8	81

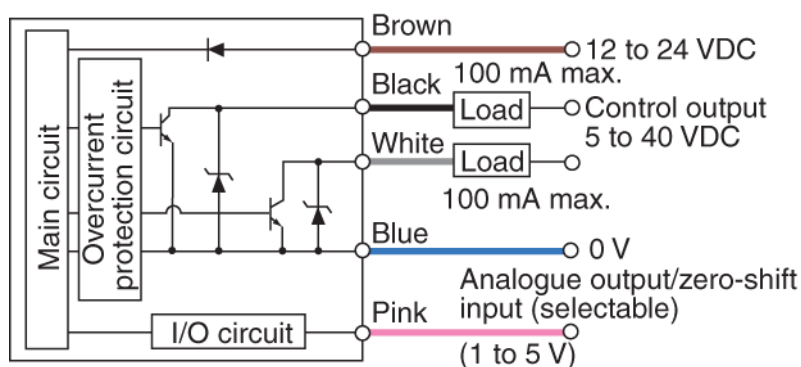
## I/O Circuit Connection diagram

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

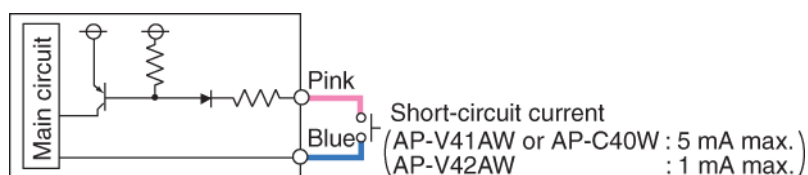
AP-C40W/V40AW Series

NPN

I/O circuit diagram (AP-V41AW/C40W)



Zero-shift input circuit (AP-V41AW/V42AW/C40W)



Analogue output circuit (AP-V41AW/C40W)

