



## LV-11SB

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.

⚠ 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: [Multi-Purpose Digital Laser Sensor - LV-N series](#)

## Specifications

Model		LV-11SB*1	
Type		Main unit	
Output		NPN	
Control output		NPN open-collector x 2 ch 40 VDC max. 100 mA max. per output	
Response time	Except LV-S31	ULTRA	4 ms
		SUPER	2 ms
		TURBO	500 μs
		FINE	250 μs
		HSP	80 μs
	LV-S31 standard mode		500 μs
	LV-S31 standard mode	SPED2	2 ms
		SPED3	8 ms
		SPED4	32 ms
LV-S31 High-speed mode		250 μs	
Control input		Light emission stop input, external calibration, set value bank selection input, or shift input	
Number of interference prevention units	ULTRA	4*2	
	SUPER		
	TURBO	2*2	
	FINE		
	HSP	0*2	
Unit expansion		Up to 16 expansion units can be installed (17 units including the main unit)*3	
Rating	Power voltage		12 to 24 VDC, Ripple (P-P) 10 % or less, Class2*4
	Power consumption	Normal	1.7 W max. (70 mA max. for 24 V)
		Eco-Half Eco-All	1.55 W max. (65 mA max. for 24 V)
Environmental resistance	Ambient temperature		-10 to +55 °C 14 to 131 °F (No freezing)*5
	Vibration resistance		10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z axis
Material	Main unit	Main body, cover: Polycarbonate	
Weight	Approx. 80 g (including 2 m 6.6' cable)		

\*1 LV-S62 and LV-S63 can ONLY be used with amplifiers ending with B or BP.

\*2 Numbers for the LV-S31 are four in standard mode and two in high-speed mode.

\*3 To connect several units they must be mounted on a METAL DIN rail. Ensure that the output current is 20 mA max. With several units connected, the allowable ambient temperature range varies as follows:

1 to 2 units connected: -10 to +55°C 14 to 131°F

3 to 10 units connected: -10 to +50°C 14 to 122°F

11 to 16 units connected: -10 to +45°C 14 to 113°F

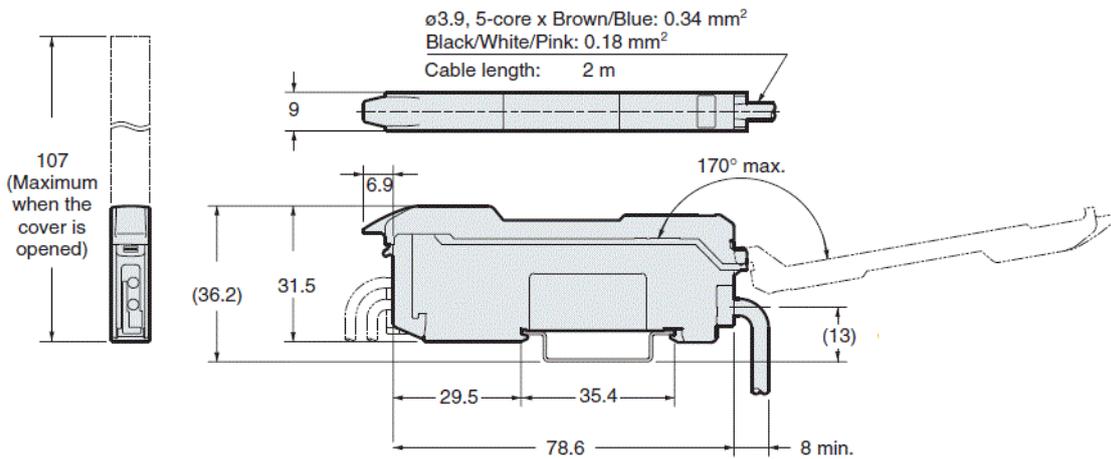
\*4 When more than 8 units connected, be sure to use supply voltage 24 VDC Ripple (P-P) 10 % or less

\*5 To connect several units they must be mounted on a METAL DIN rail. Ensure that the output current is 20 mA max. With several units connected, the allowable ambient temperature range varies as follows: 1 to 2 units connected: -10 to +55 °C 14 to 131°F, 3 to 10 units connected: -10 to +50 °C 14 to 122°F, 11 to 16 units connected: -10 to +45 °C 14 to 113°F

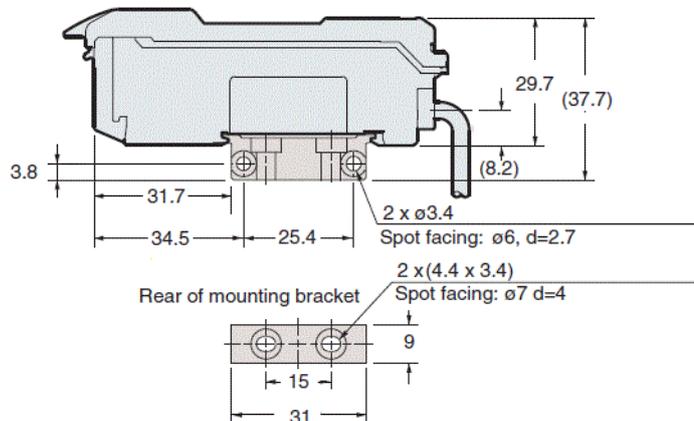
## Dimensions

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

### LV-11SA/11SAP



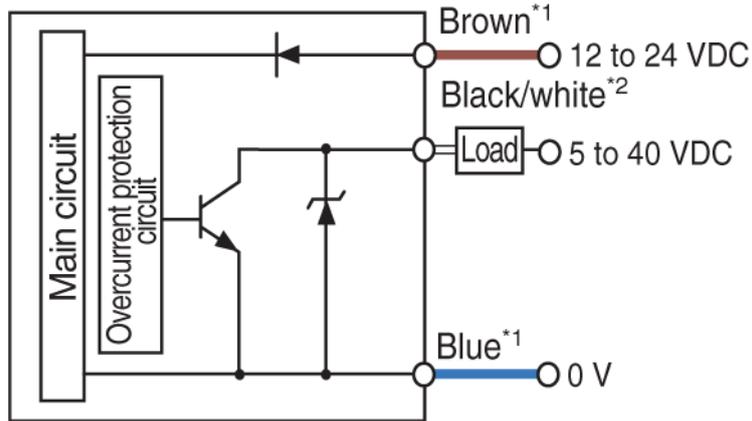
**When the mounting bracket (included with LV-11SA(P)) is attached:**



# I/O Circuit Connection diagram

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

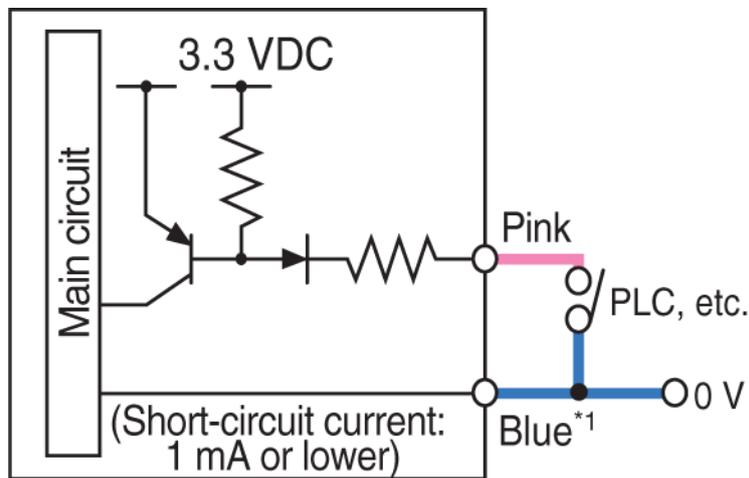
## I/O Circuit



\*1. LV-11SB only

\*2. Black: Control output 1, white: Control output 2

## Laser emission stop input/External calibration input/Setting value bank selection input/Received light intensity shift input



\*1. LV-11SB only