



LV-12SB

Amplifier Unit, Expansion 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-12SB*1
Type			Expansion unit (1 line)
Output			NPN
Control output			NPN open-collector x 2 ch 40 VDC max. 100 mA max. per output
Response time	ExceptLV-S31	ULTRA	4 ms
		SUPER	2 ms
		TURBO	500 μs
		FINE	250 μs
		HSP	80 μs
	LV-S31standard mode		500 μs
	LV-S31standard mode	SPED2	2 ms
		SPED3	8 ms
		SPED4	32 ms
	LV-S31High-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**

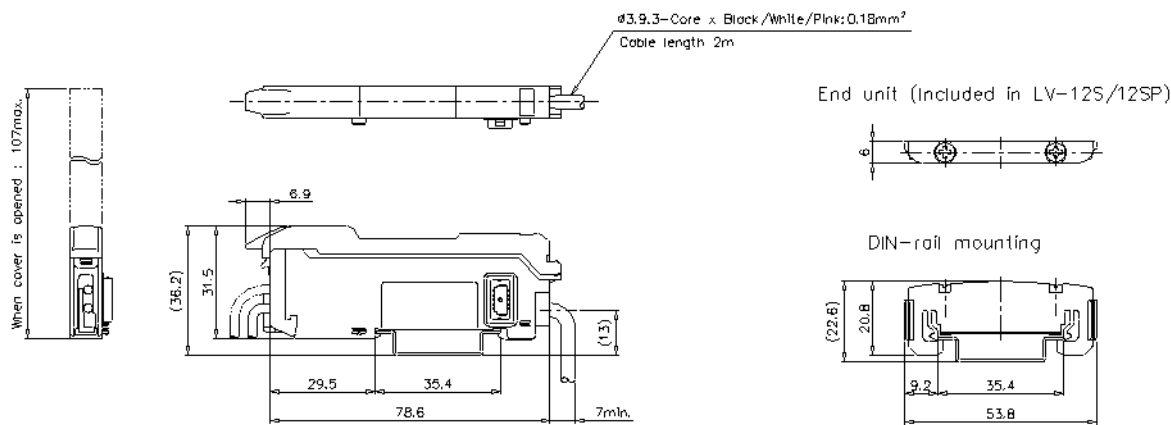
*4 When more than 8 units connected, be sure to use supply voltage 24 VDC Ripple (P-P) 10 % or less

*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**

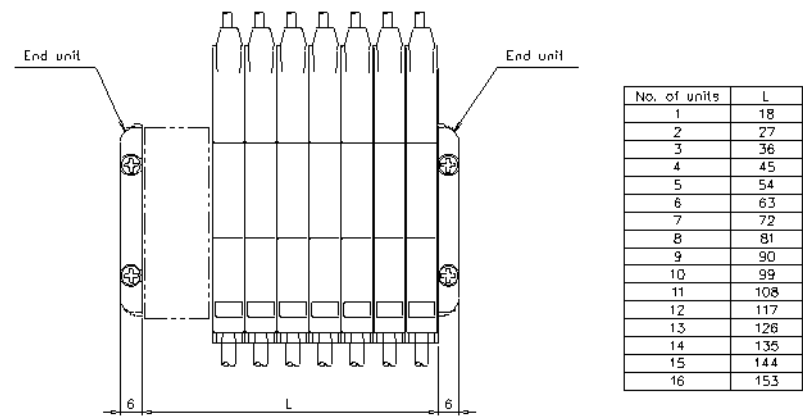
Dimensions

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

LV-12S/12SP



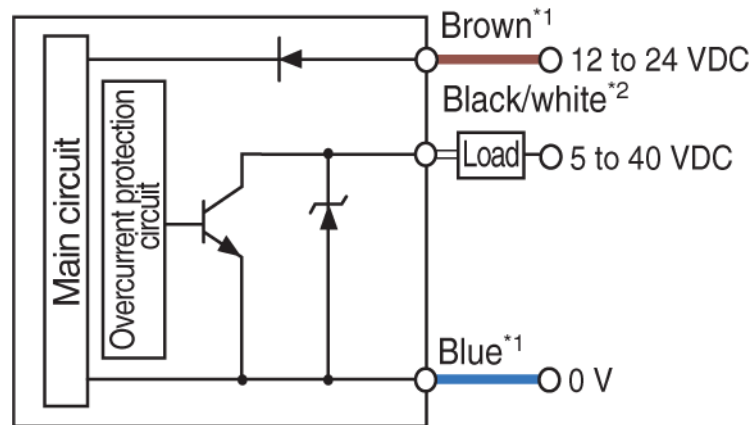
When several units are connected



I/O Circuit Connection diagram

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

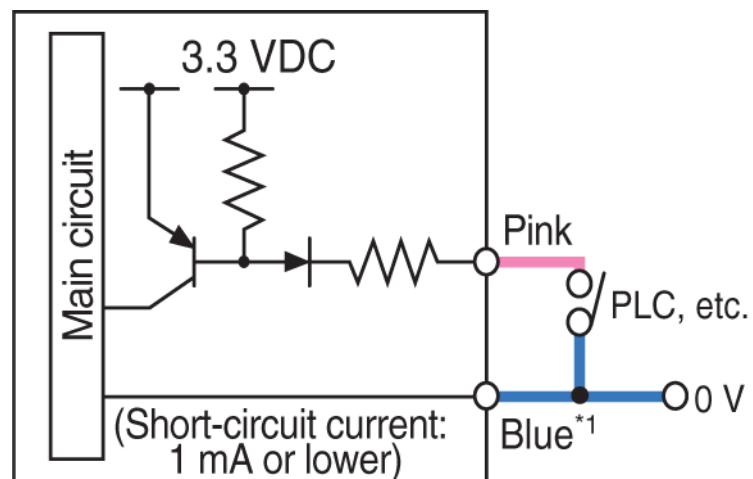
I/O Circuit



*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