LV-12SBP

Amplifier Unit, Expansion Unit, PNP

*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. Contact Us: 1-888-539-3623
Compliance with the certification standard is ensured as of the time of shipment from our company.

Recommended Replaceable Products: Multi-Purpose Digital Laser Sensor - LV-N series

Specifications

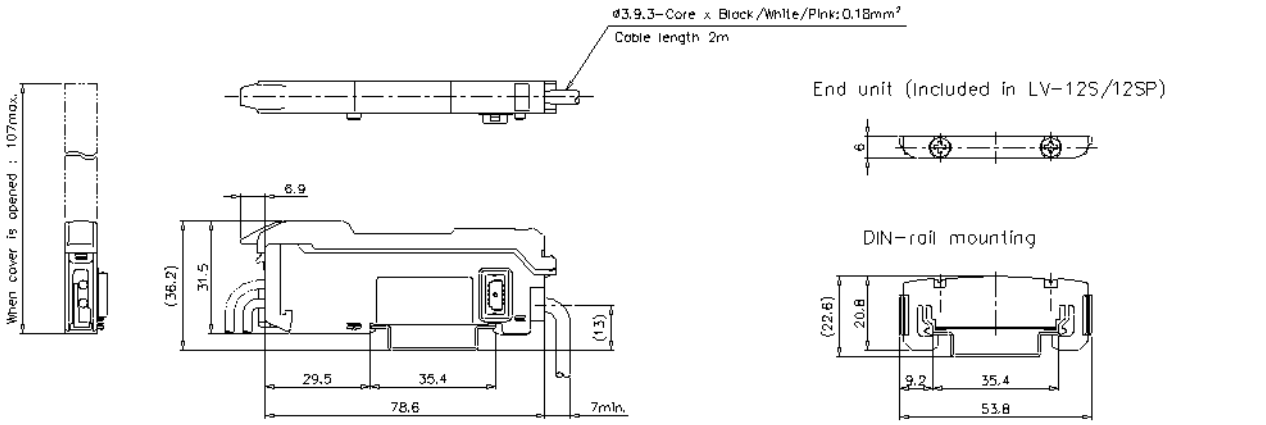
Model			LV-12SBP*1
Type			Expansion unit (1 line)
Output			PNP
Control output			PNP open-collector x 2 ch 30 VDC max. 100 mA max. per output
Response time	ExceptLV-S31	ULTRA	4 ms
		SUPER	2 ms
		TURBO	500 µs
		FINE	250 µs
		HSP	80 µs
	LV-S31standard mode		500 µs
	LV-S31standard mode	SPED2	2 ms
		SPED3	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 +55ºC 14 to 131ºF
3 to 10 units connected: -10 to +50ºC 14 to 122ºF
11 to 16 units connected: -10 to +45ºC 14 to 113ºF
*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

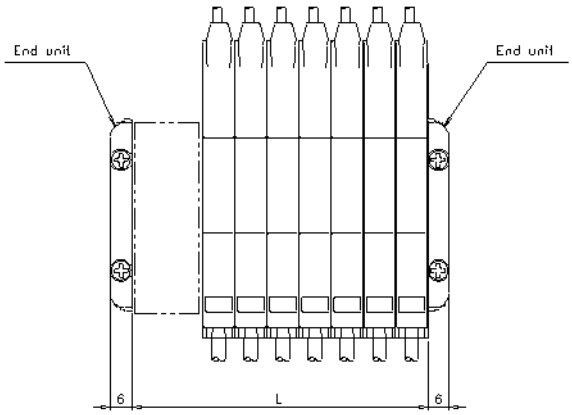
Dimensions

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

LV-12S/12SP



When several units are connected

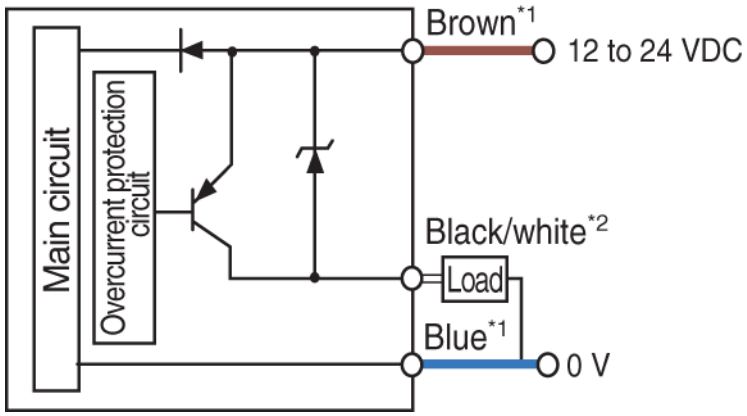


No. of units	L
1	18
2	27
3	36
4	45
5	54
6	63
7	72
8	81
9	90
10	99
11	108
12	117
13	126
14	135
15	144
16	153

I/O Circuit Connection diagram

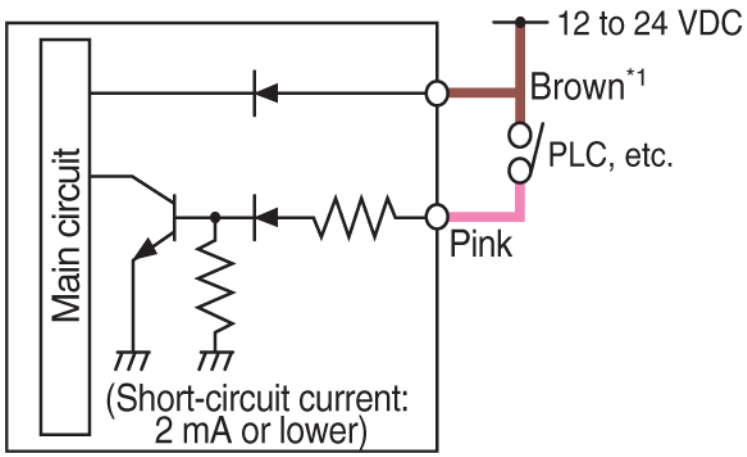
* Download CAD file or product manual for larger image/text and more detail.

I/O Circuit



*1. LV-11SBP 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-11SBP only