



P.L. LIGHT SYSTEMS

THE LIGHTING KNOWLEDGE COMPANY

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Multi Channel Signal Amplifier (MCSA)

Compatible Luminaires

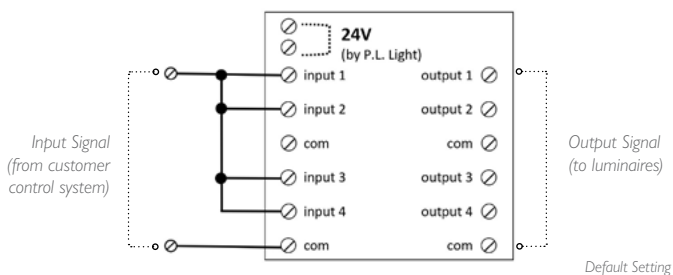
ParFX Ultra TriPlane Linear
VertiMax

The P.L. Light Systems MCSA will amplify your 1-10V sink or source control signal—allowing you to increase the number of luminaires that can be controlled.

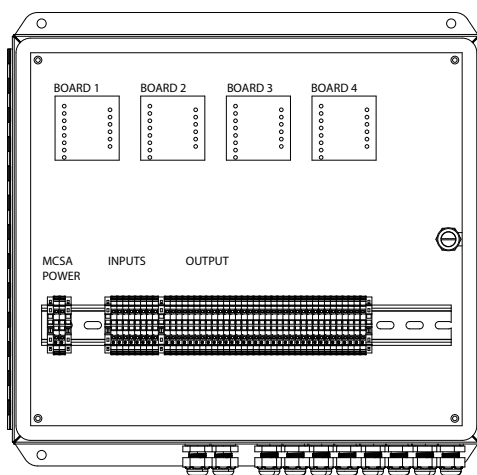
Max # Luminaires / MCSA

	# 4-Channel Signal Boards in MCSA			
	1 board	2 boards	3 boards	4 boards Default Configuration
ParFX Ultra	100	200	300	400
TriPlane Linear	100	200	300	400
VertiMax	44	88	132	176

Each signal board can accommodate up to four (4) inputs and four (4) outputs.



The default configuration for the MCSA is with four 4-channel signal boards.



Default: 4 board configuration

SIGNAL BOARD SPECIFICATIONS

Number of Channels	4 channels
Current Capacity / Channel	20 mA at 0-10V* / 1-10V* (depending on luminaire)
Input Configuration	1, 2, 3 or 4 channels 0-10V or 1-10V sink or source (input and output protocols must be the same for each channel) based on jumper selection
Output Configuration	1, 2, 3 or 4 channels that duplicate the input channel, based on jumper selection

*Exceeding 10V or 20 mA on any channel may result in permanent board damage.

MCSA SPECIFICATIONS

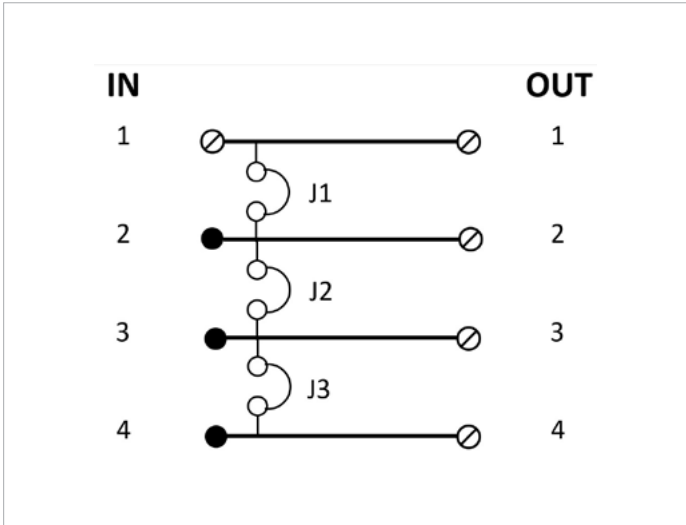
Number of Signal Boards	1-4 boards
Plug-In Power Supply	24V at 1 A Center positive 2.1mm x 5.5mm plug
Main Power Supply	24V DC via plug at 120V power supply
Temperature	10 - 40 °C / 50 - 104 °F
IP Rating	IP65
Dimming Connection	Strain relief to the MCSA board; dimming cable [†] connecting MCSA to pre-installed dimming circuit to be supplied by customer

[†]Consult with a local certified electrical contractor for a suitable dimming cable. Specifications to consider include safety certifications; UV rated; voltage rating, temperature rating of ≥90°C; and should be 18 gauge twisted pair with foil.

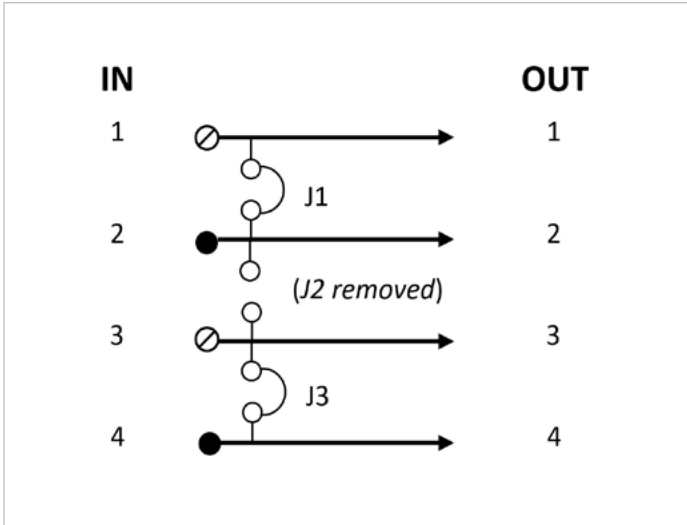
CONTROL CHANNELS

Each signal board can accommodate up to four (4) inputs and four (4) outputs.

The default setting for each board is for single-channel control, with all three (3) pre-installed jumpers in place—allowing for one (1) input signal to control all four (4) output signals. To modify the number of channels used, simply remove the relevant jumpers on the board. For example, if two control-amplifying channels are required, then simply remove J2 from the board (see Modified Setting image below).

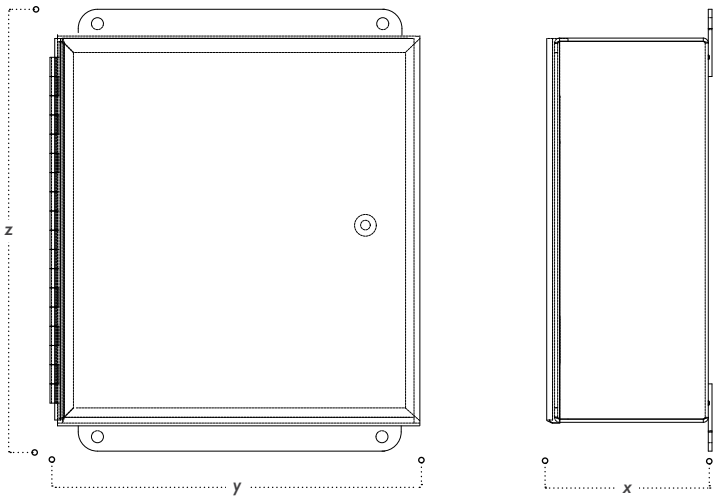


Default Setting: 1 in; 4 out



Modified Setting: 2 in; 4 out

NOTE: 10 kΩ resistor is required for unused outputs from the signal board.



The MCSA is covered by an in-field customer replacement part warranty for a period of (2) years.

MCSA DIMENSIONS	
x = depth	6.750 in. (17.15 cm)
y = width	16.250 in. (41.28 cm)
z = height	15.875 in. (40.32 cm)
weight	23.1 lb. (10.48 kg)