

THE LIGHTING KNOWLEDGE COMPANY

T: 905.563.4I33

Toll Free: 1.800.263.0213

ParFX Ultra / Plus

F: 905.563.0445 www.pllight.com







Each signal board can accommodate up to four (4) inputs and four (4) outputs. 24V Ø (by P.L. Light) output 1 🕢 input 1 output 2 🕢 input 2 Input Signal ⊘ com com 🕢 Output Signal (from customer (to luminaires) output 3 🕢 control system) output 4 🕢 o input 4 **⊸**⊘ com com 🕢 Default Setting

Multi Channel Signal Amplifier (MCSA) HortiLED Top 2.0 Compatible Luminaires TriPlane TriPlane Linear

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.

VertiMax

	Max # Luminaires / MCSA				
	# 4-Channel Signal Boards in MCSA				
	1board	2 boards	3 boards	4 boards Default Configuration	
HortiLED Top 2.0	100	200	300	400	
ParFX Ultra / Plus	100	200	300	400	
TriPlane	100	200	300	400	
TriPlane Linear	100	200	300	400	
VertiMax	44	88	132	176	

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.

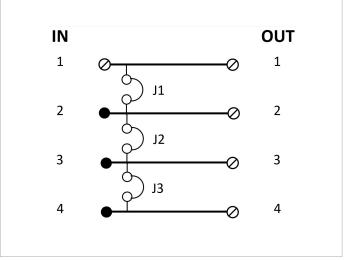
MCSA SPECIFICATIONS	
Number of Signal Boards	1-4 boards
Plug-In Power Supply	24V at 1 A Center positive 2.1mm × 5.5mm plug
Main Power Supply	24V DC via plug at 120V power supply
Temperature	10 - 40 °C / 50 - 104 °F
IP Rating	65
Dimming Connection	Strain relief to the MCSA board; dimming cable† connecting 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.

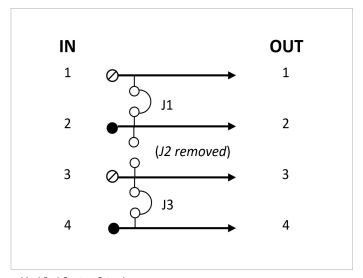
CONTROL CHANNELS

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).

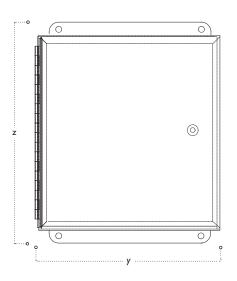


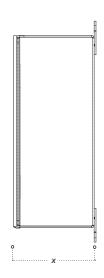
Default Setting: I in; 4 out



Modified Setting: 2 in; 4 out

NOTE: 10 $\mbox{k}\Omega$ 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)	