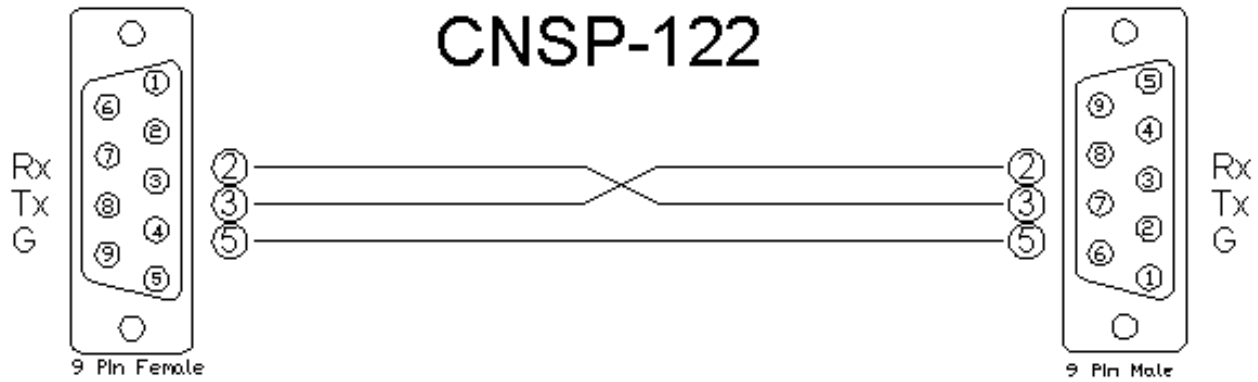


Partner: Sony
Model: VPL-PX21 / VPL-PX31
Device Type: Video Projector



GENERAL INFORMATION	
SIMPLWINDOWS NAME:	Sony VPL-PX21 + VPL-PX31 Projector
CATEGORY:	TV/Video Projector
VERSION:	1.2
SUMMARY:	Controls Power, Source Select, Picture Mute, Aspect Ratio, Contrast, Brightness, Color, Hue, Sharpness, RGB Enhancer and Elapsed Lamp Hours.
GENERAL NOTES:	<p>This module will control the Sony VPL-PX21 and VPL-PX31 Projectors. It was tested with a VPL-PX31 only. True feedback is provided for all functions including elapsed lamp hours. When any command is sent to the projector, it will acknowledge that the command was processed properly and the corresponding feedback will be reflected at the outputs of this module. Picture settings will only be updated when the appropriate input is selected.</p> <p>When the Poll_Enable input is asserted(Default =1), the projector will be polled every 15 seconds to determine the state of power, input source and picture mute.</p> <p>If it is desired to poll the projector for picture setting changes made using the IR remote control, or by the controls on the projector itself, you can assert the Poll_Settings input(Default =1). When this input is high, the projector will be polled every 45 seconds to determine the state of aspect ration, brightness, contrast, sharpness, color, hue, RGB Enhancer, and elapsed Lamp Hours. Typically, you could enable either polling option when the projector's particular control page is active and displayed on a touch panel. You would then disable polling at other times.</p>
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM, CNMSX Internal Com Ports
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 38400 Parity: Even Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-122

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CONTROL:

Power_On/Off/Toggle	D	Changes the power state of the projector
Input_*	D	Selects the video/s-video/Input A/Input B source on the projector
Picture_Mute_On/Off	D	Turns picture mute on or off
Aspect_43/169	D	Selects any of the two available aspect ratios
Contrast_Up/Down	D	Press and hold to adjust the level of contrast. This is only valid when viewing vide/s-video sources
Brightness_Up/Down	D	Press and hold to adjust the level of brightness. This is only valid when viewing vide/s-video sources
Color_Up/Down	D	Press and hold to adjust the level of color. This is only valid when viewing vide/s-video sources
Hue_Up/Down	D	Press and hold to adjust the level of hue. This is only valid when viewing vide/s-video sources
Sharpness_Up/Down	D	Press and hold to adjust the level of sharpness. This is only valid when viewing vide/s-video sources
RGB_Enhance_Up/Down	D	Press and hold to adjust the level of RGB Enhance. This is only valid when viewing RGB sources
Poll_Enable	D	When high, projector will be polled for it's general settings every 15 seconds (Default=1).
Poll_Settings	D	When high, projector will be polled or it's picture settings and elapsed lamp hours every 45 seconds (Default=1).
From_Device\$	S	Serial signal to be routed from a 2-way RS232 port

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**FEEDBACK:**

Power_On/Off/Tog_Fb	D	True feedback indicating current power state
Input_*_Fb	D	True feedback indicating current selected input source
Picture_Mute_On/Off_Fb	D	True feedback indicating current picture mute state
Aspect_*_Fb	D	True feedback indicating current aspect ratio
*_Analog	A	Analog value of picture settings to be sent to bar graph
Lamp_Hours	A	Decimal value indicating elapsed lamp hours
To_Device\$	S	Serial data signal to be routed to a 2-way Com Port

TESTING:

OPS USED FOR TESTING:	V3.088.cuz
COMPILER USED FOR TESTING:	SimplWindows Version 2.05.17
SAMPLE PROGRAM:	Sony VPL-PX21 + VPL-PX31 Demo
REVISION HISTORY:	None