

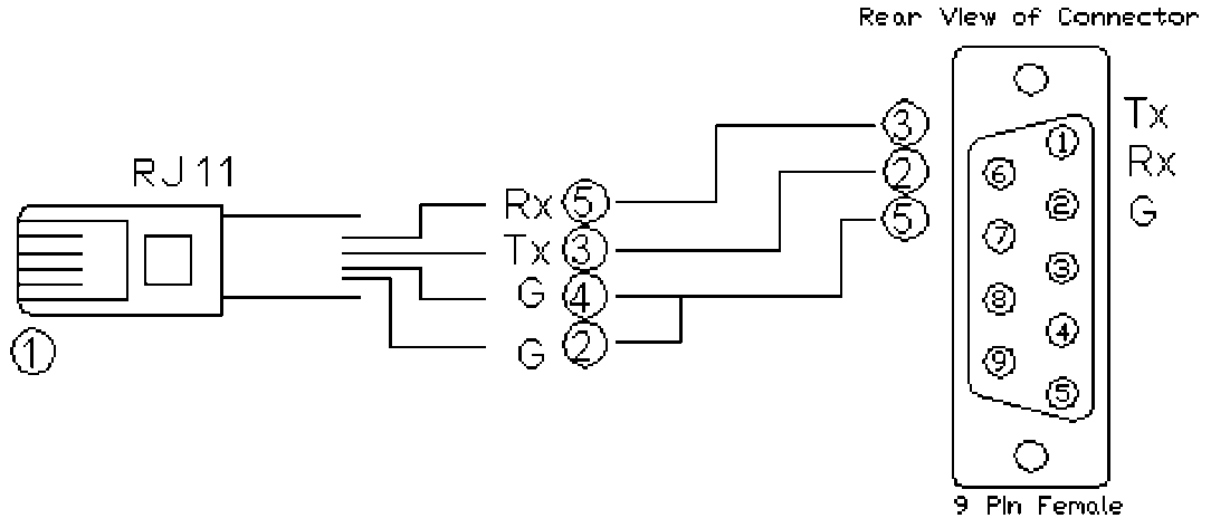
Partner: CLO Systems
Model: X-arm
Device Type: Generic



GENERAL INFORMATION

SIMPLWINDOWS NAME:	CLO Systems X-arm v2.0
CATEGORY:	Miscellaneous
VERSION:	2.0
SUMMARY:	This module controls the functions of the CLO Systems X-arm.
GENERAL NOTES:	<p>This module was tested with a CLO Systems X-arm robotic display mount. Polling for status takes place every second if Poll_Enable is held high.</p> <p>This module is SystemBuilder compatible.</p>
CRESTRON HARDWARE REQUIRED:	CNXCOM-2, ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 2400 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	None
CABLE DIAGRAM:	N/A

Partner: CLO Systems
Model: X-arm
Device Type: Generic


CONTROL:

Power_On	D	Pulse to power on the X-arm.
Power_Off	D	Pulse to power off the X-arm.
Move_In_Or_Out	D	Pulse to move the X-arm in towards the home position or to extend out.
Tilt_Up	D	Pulse to tilt the X-arm up (note: re-pulsing stops motion as in the IR remote).
Tilt_Down	D	Pulse to tilt the X-arm down (note: re-pulsing stops motion as in the IR remote).
Tilt_Left	D	Pulse to tilt the X-arm left (note: re-pulsing stops motion as in the IR remote).
Tilt_Right	D	Pulse to tilt the X-arm right (note: re-pulsing stops motion as in the IR remote).
Move_In(Home)	D	Pulse to move the X-arm in towards the home position.
Move_Out(Extension)	D	Pulse to move the X-arm out to extend.
Stop	D	Pulse to stop all X-arm movement.
Memory_1_Set	D	Pulse to set memory 1 position of the X-arm.
Memory_2_Set	D	Pulse to set memory 2 position of the X-arm.
Memory_3_Set	D	Pulse to set memory 3 position of the X-arm.
Memory_4_Set	D	Pulse to set memory 4 position of the X-arm.

Partner: CLO Systems
Model: X-arm
Device Type: Generic



Memory_1_Recall	D	Pulse to recall memory 1 position of the X-arm.
Memory_2_Recall	D	Pulse to recall memory 2 position of the X-arm.
Memory_3_Recall	D	Pulse to recall memory 3 position of the X-arm.
Memory_4_Recall	D	Pulse to recall memory 4 position of the X-arm.
Poll_Enable	D	Hold high to enable real-time feedback status queries.
From_Device	S	Serial signal to be routed from a 2-way serial port.

FEEDBACK:

General_Error_Exists	D	Status High when there is a general error.
Axis_1_Error_Exists	D	Status High when there is an error on Axis (motor) 1.
Axis_2_Error_Exists	D	Status High when there is an error on Axis (motor) 2.
Axis_3_Error_Exists	D	Status High when there is an error on Axis (motor) 3.
High_Current_Error_Exists	D	Status High when there is an error caused by a high current condition.
Motor_1_Is_Home	D	Status High when X-arm motor 1 is in home position.
Motor_2_Is_Home	D	Status High when X-arm motor 2 is in home position.
Motor_3_Is_Home	D	Status High when X-arm motor 3 is in home position.
Motor_Right_Is_Moving_Backward	D	Status High when right motor is rotating backward.
Motor_Right_Is_Moving_Forward	D	Status High when right motor is rotating forward.
Motor_Right_Is_On	D	Status High when right motor is on.
Motor_Right_Is_Off	D	Status High when right motor is off.
Motor_Center_Is_Moving_Backward	D	Status High when center motor is rotating backward.
Motor_Center_Is_Moving_Forward	D	Status High when center motor is rotating forward.

Partner: CLO Systems
Model: X-arm
Device Type: Generic



Motor_Center_Is_On	D	Status High when center motor is on.
Motor_Center_Is_Off	D	Status High when center motor is off.
Motor_Left_Is_Moving_Backward	D	Status High when left motor is rotating backward.
Motor_Left_Is_Moving_Forward	D	Status High when left motor is rotating forward.
Motor_Left_Is_On	D	Status High when left motor is on.
Motor_Left_Is_Off	D	Status High when left motor is off.
Motor_Left_Position_Gauge	A	Gauge indicating the position of the left motor.
Motor_Center_Position_Gauge	A	Gauge indicating the position of the center motor.
Motor_Right_Position_Gauge	A	Gauge indicating the position of the right motor.
To_Device	S	Serial signal to be routed to a 2-way serial port.

TESTING:

OPS USED FOR TESTING:	v4.000.0226
SIMPL WINDOWS USED FOR TESTING:	v2.10.32
CRES DB USED FOR TESTING:	v20.13.8
SYMBOL LIBRARY USED FOR TESTING:	v567
SAMPLE PROGRAM:	CLO Systems X-arm v2.0 Demo PRO2.smw
REVISION HISTORY:	<p>v1.0 – Original release.</p> <p>v1.1 – Fixed the wiring diagram.</p> <p>v2.0 – Revised the wiring diagram for RJ-11. Added Presets 3 and 4, added Stop command. SystemBuilder compatibility added.</p>