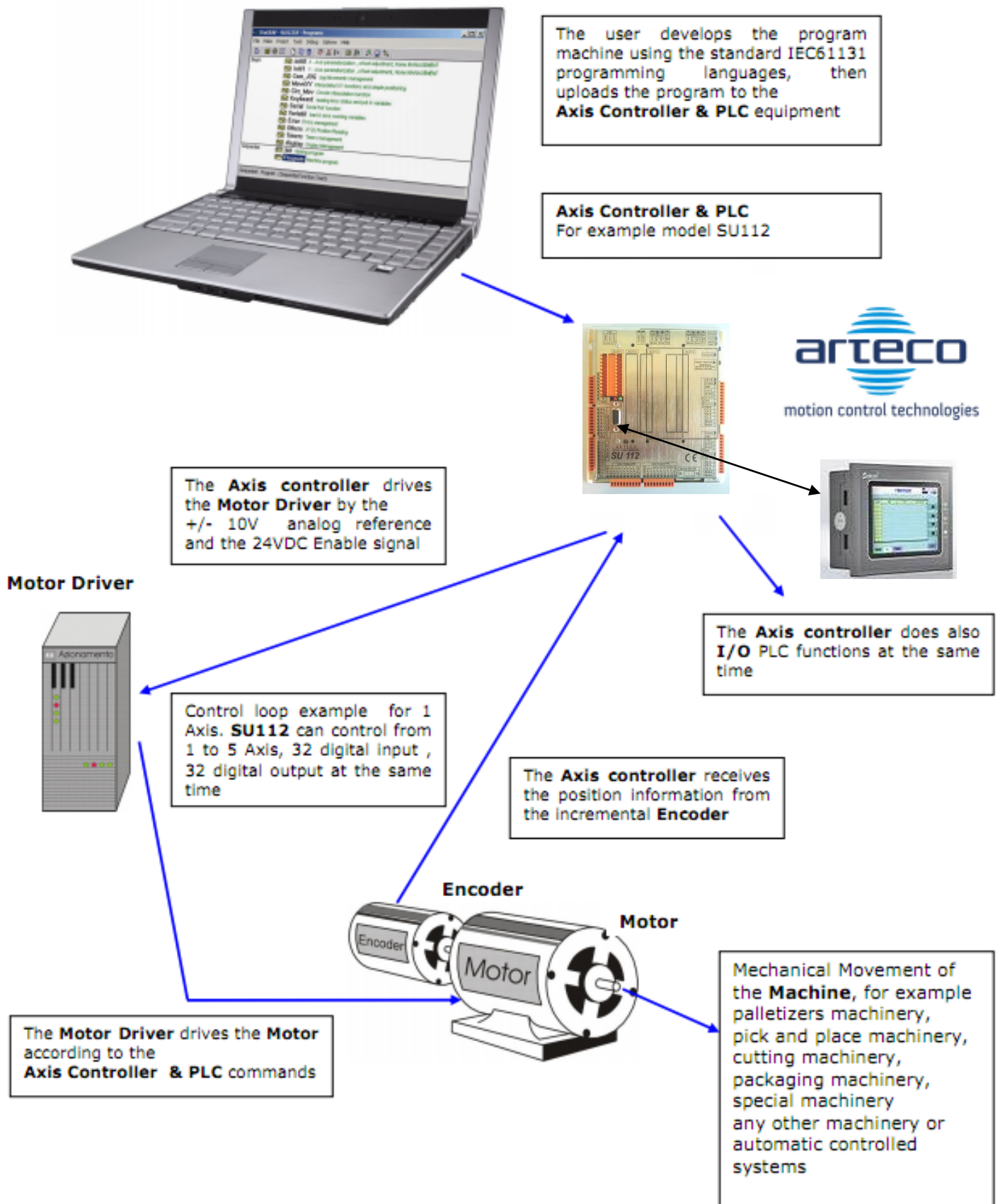


ARTECO MOTION TECH - Axis Controllers & PLCs for Automatic Machinery control.

The **Axis Controller with included PLC** is an advanced control equipment able to fully control all axis and I/O of an automatic machine. All of Arteco Motion Tech controllers can control the movement to the needed position of mechanical axis moved by electric motors.



General description:

Arteco Italy manufactures Axis Controllers with standard PLC in only one device. It means that the user can install only one device to control one or more axis and digital input and output. This solution makes it possible to save time and money.

The above indicated example shows SU112C (C stands for closed version of SU112) to control one axis system.

SU112C is provided without built-in HMI. The user can connect SU112C to any HMI simply using a RS232 OR RS422/485 cable (the supported protocol is the STANDARD Modbus RTU) .

The user can develop the HMI program using the free development HMI program tool. It provides rapid development HMI pages. Each object (text box, button, indicator, progress bar etc.) will have its own modbus RTU address and it will be connected to the SU112 declared Modbus RTU variables automatically.

The user can develop the Axis controller & PLC program using the standard IEC61131-3 programming PLC Tool. It provides ALL the five IEC-61131-3 standard programming languages. The Motion Control Functions can be used in the same PLC program. The user does not have to learn any new programming language, only he have to know how the Motion Control Functions work.

Hardware connections:

SU112 (or any other Arteco Axis controllers with PLC included) can be connected to HMIs using the following ways:

RS232
RS422
RS485

SU112 (or any other Arteco Axis controllers with PLC included) can be connected to the axis system using the following way:

To receive the position feedback from the Machine: by Incremental Encoder Line driver or push pull 5V


To provide speed reference to the SERVODRIVER: by standard analog +/- 10V differential

To provide ENABLE signal to the SERVODRIVER: by standard 24VDC pnp output.


All the Axis Controllers with PLC included made by Arteco provide also the Emg input (Emergency input). It means that the machine emergency can be connected also to the Arteco Controller making it possible to immediately stop all the movements and resetting the outputs if an emergency state occurs.

Configuration:

Available models of SU112C:

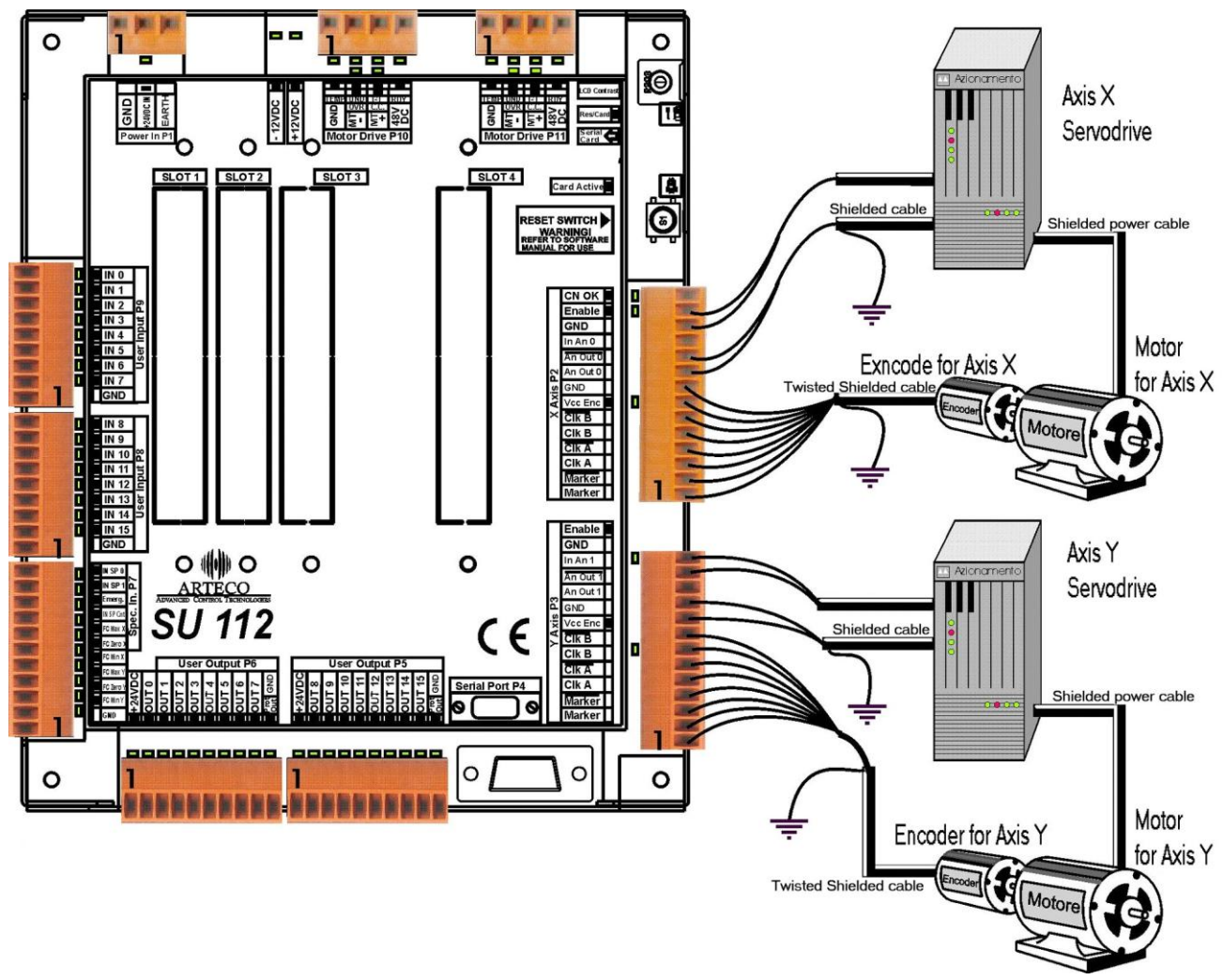
Model SU112C	Axis	DI Pnp 0-24V	DO Pnp 0-24V	Analog in 0-10V 10bit	Serial Port RS232/422 /485	CanBUS Port	Expandable with DSP
							
SU112C-XY-16I-16O	2	16	16	2	1	-	yes
SU112C-XY-24I-24O-SC	2	24	24	2	2	1	yes
SU112C-XY-32I-32O-SC	2	32	32	2	2	1	yes
SU112C-XY-40I-40O-SC	2	40	40	2	2	1	yes
SU112C-XY-48I-48O-SC	2	48	48	2	2	1	yes
SU112C-XYZ-16I-16O	3	16	16	2	1	-	yes
SU112C-XYZ-24I-24O-SC	3	24	24	2	2	1	yes
SU112C-XYZ-32I-32O-SC	3	32	32	2	2	1	yes
SU112C-XYZ-40I-40O-SC	3	40	40	2	2	1	yes
SU112C-XYZU-16I-16O	4	16	16	2	1	-	yes
SU112C-XYZU-24I-24O-SC	4	24	24	2	2	1	yes
SU112C-XYZU-32I-32O-SC	4	32	32	2	2	1	yes
SU112C-XYZU-40I-40O-SC	4	40	40	2	2	1	yes
SU112C-XYZUV-16I-16O	5	16	16	2	1	-	yes
SU112C-XYZUV-24I-24O-SC	5	24	24	2	2	1	
SU112C-XYZUV-32I-32O-SC	5	32	32	2	2	1	

Available models of SU112 (with 40 membrane Keys + LCD 20 characters x 8 lines)

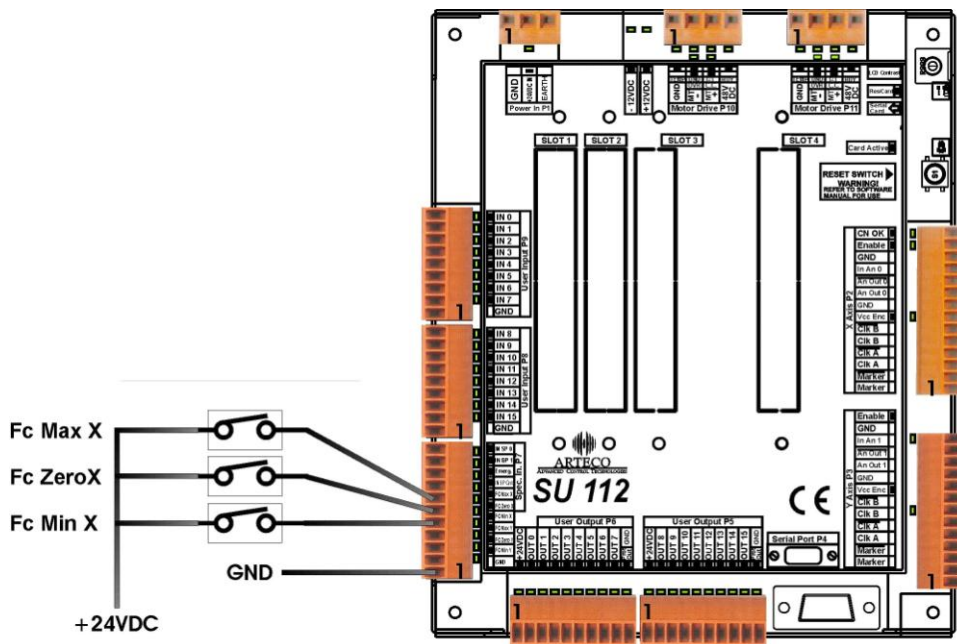
Model SU112	Axis	DI Pnp 0-24V	DO Pnp 0-24V	Analog in 0-10V 10bit	Serial Port RS232/422 /485	CanBUS Port	Expandable with DSP
							
SU112C-XY-16I-16O	2	16	16	2	1	-	yes
SU112C-XY-24I-24O-SC	2	24	24	2	2	1	yes
SU112C-XY-32I-32O-SC	2	32	32	2	2	1	yes
SU112C-XY-40I-40O-SC	2	40	40	2	2	1	yes
SU112C-XY-48I-48O-SC	2	48	48	2	2	1	yes
SU112C-XYZ-16I-16O	3	16	16	2	1	-	yes
SU112C-XYZ-24I-24O-SC	3	24	24	2	2	1	yes
SU112C-XYZ-32I-32O-SC	3	32	32	2	2	1	yes
SU112C-XYZ-40I-40O-SC	3	40	40	2	2	1	yes
SU112C-XYZU-16I-16O	4	16	16	2	1	-	yes
SU112C-XYZU-24I-24O-SC	4	24	24	2	2	1	yes
SU112C-XYZU-32I-32O-SC	4	32	32	2	2	1	yes
SU112C-XYZU-40I-40O-SC	4	40	40	2	2	1	yes
SU112C-XYZUV-16I-16O	5	16	16	2	1	-	yes
SU112C-XYZUV-24I-24O-SC	5	24	24	2	2	1	
SU112C-XYZUV-32I-32O-SC	5	32	32	2	2	1	

Examples of hardware connecting:

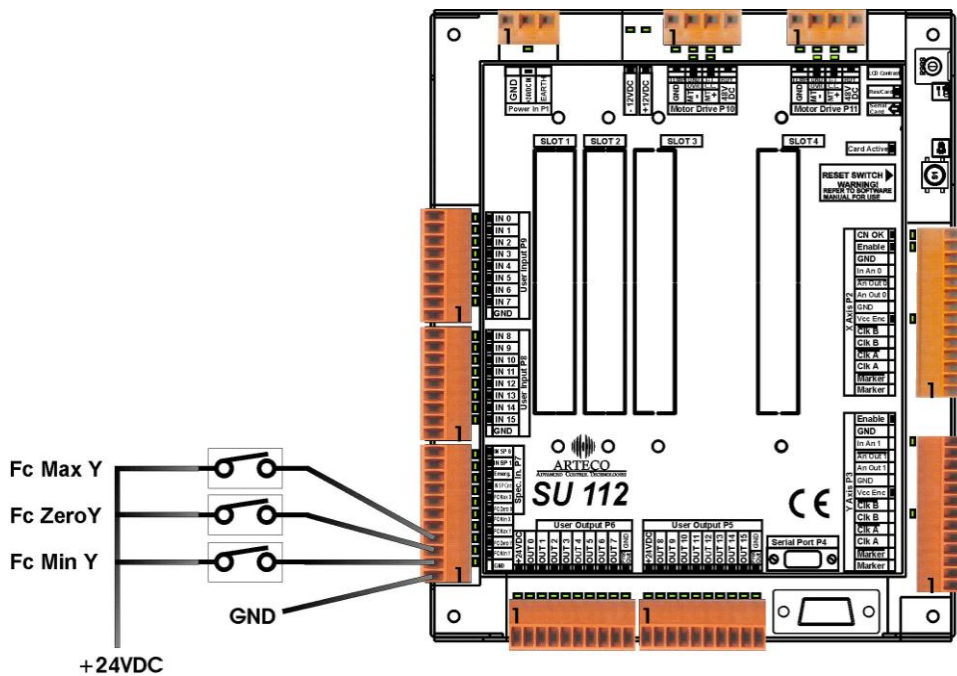
Two Axis Connecting:



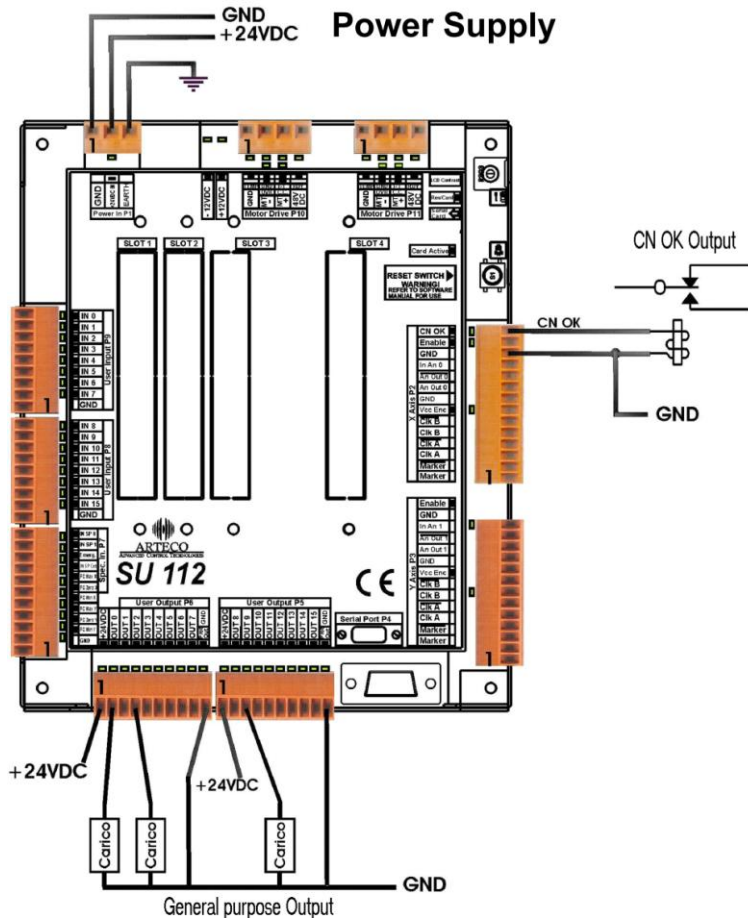
Two Axis Limit Sensors Connecting Axis X :



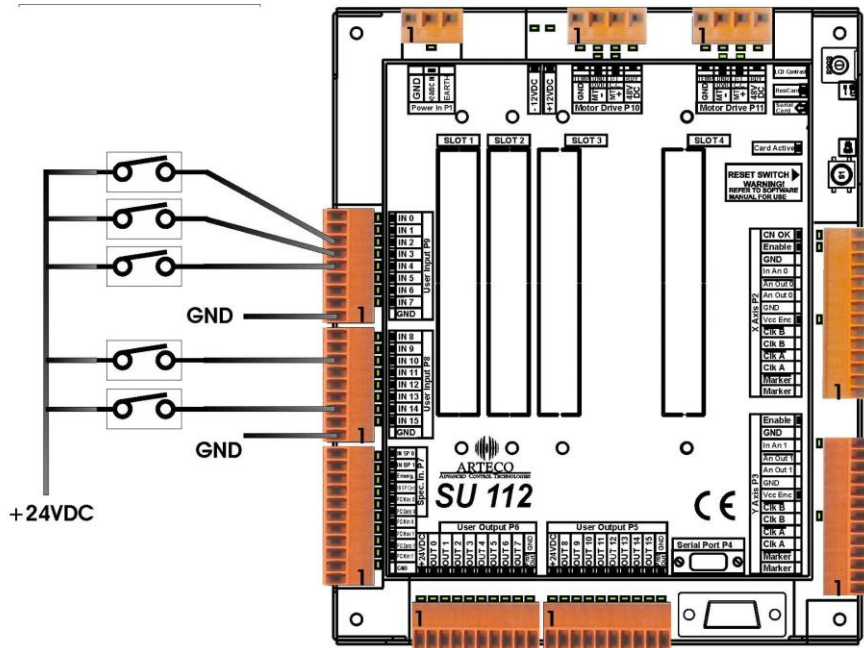
Two Axis Limit Sensors Connecting Axis Y :



General purpose Output connecting:



General purpose input connecting:



Example of application:

