

User Manual

BCL1501 Installation Guide

BCL1501A/BCL1501B

I/O and Servo Axis Extension Module

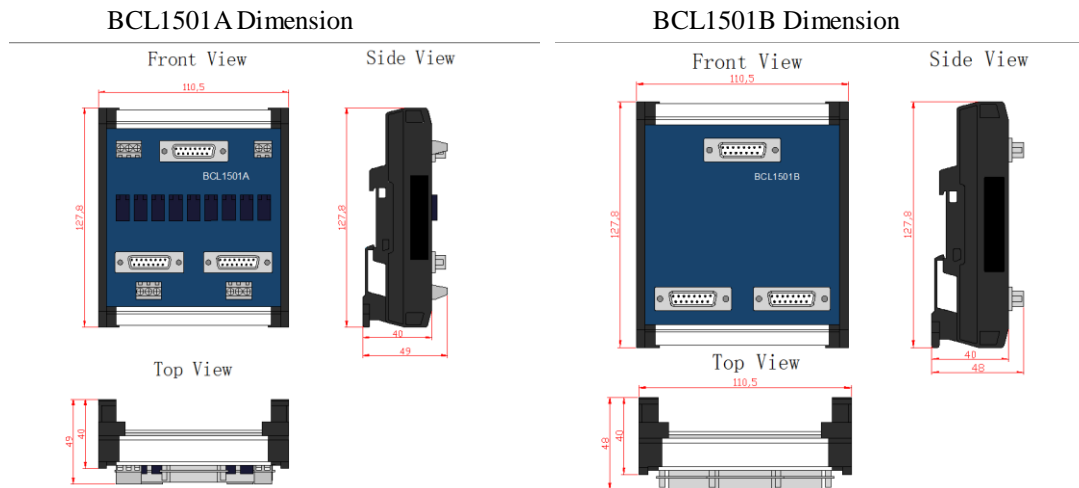




BCL1501 Expansion Board Instruction

1 Product Description

BCL1501 expansion board has 1501A and 1501B two models.



BCL1501A served to switch controlled motor axes and limit signals along with. It has three motor axes ports, three limit input ports and one control port. Within among three motor axes ports, one connected with the servo control port on main I/O board and the other two connected with servo driver. 3 limit ports connected with main I/O board and limit inputs of each axes accordingly. Control port accepts 24V DC power supply, which can realize axes switch when BCL1501A power-on.

BCL1501B served to duplicate one servo control port to two ports. It has three ports, one for signal input that connected with servo control port in main I/O board, the other two for expanded motor axes connected with servo driver.

2 BCL1501 Installation and Operation

2.1 BCL1501A Installation and Operation

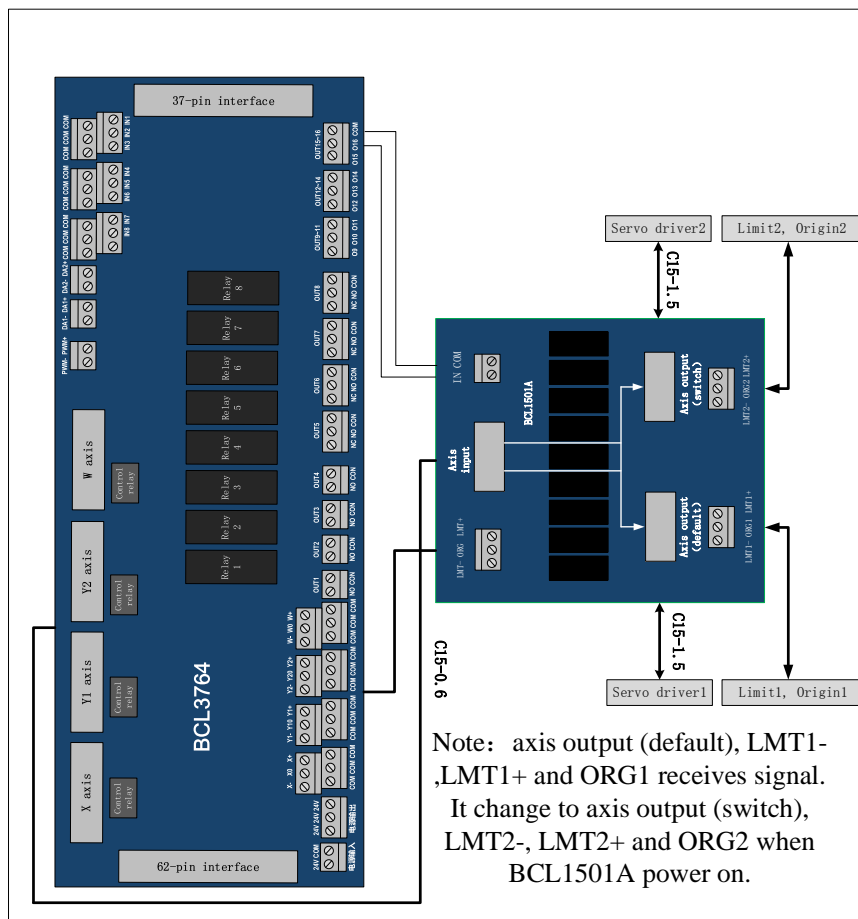
BCL1501A connected with servo axis port in main I/O terminal board (take BCL3764 board as example) by C15-0.6 cable. Motor axis control (default axis) and



axis switch via C15-1.5 cable connected with servo driver. LMT-(negative limit), LMT+(positive limit), ORG(origin) connect with +/- limit and origin in main I/O board. LMT1-, LMT2-, LMT1+, LMT2+ and ORG connect with limit and origin signal input of each axis accordingly. Control port (IN COM) can connect to output port on main I/O board.

Signal input to BCL1501A send to motor driver connected in default port when not given 24V power supply. LMT-, LMT+ and ORG accept signal input from LMT1-, LMT1+ and ORG1.

When give 24V DC power supply to 1501A, controlled motor axis will be switched to the other one. LMT-, LMT+ and ORG accept signal input from LMT2-, LMT2+ and ORG2.





2.2 BCL1501B Installation and Operation

BCL1501B connected with servo axis port in main I/O terminal board by C15-0.6 cable. Motor axis control ports connect with servo driver by C15-1.5 cable.

BCL1501B received signal send to two servo control ports simultaneously. Output signal from two axes ports is same, but controller only receive encoder feedback of motor axis connected in axis output1. Servo alarm signal must be low-level active, normally close type.

