

BNC connection box for DIN rail



PX-BNC

BNC connection box

For DIN rail mounting

Features

The connection box PX-BNC allows the direct connection of analog voltage and current signals through BNC connectors. Many ADDI-DATA analog boards can be connected (see table on the right). With the PX-BNC, you can connect up to 8 differential or 16 single-ended analog inputs as well as 8 analog output channels through BNC connectors.

Housing

The compact housing consists of black painted aluminium, profile IP65 with gut impact resistance.

Accessories

The standard delivery contains 2 clamps for DIN rail mounting.

Connection to the board

The connection to the board is made through the 37-pin SUB-D female connector, the pin assignment depends on the type of board connected.

The connection between PX-BNC and the ADDI-DATA analog board is made through the standard round cable ST010 (shielded cable, 2 m). Please order the cable separately.

16 BNC connectors for analog inputs

The connection box has 16 BNC connectors In 0 to In 15 for the connection of the analog input channels (Channel 0-15) of many ADDI-DATA input and multifunction boards (see table on the right). The BNC ground is connected to the ground of the analog signals. The connection of the differential channels (DIFF) is only possible through a special BNC cable.

8 BNC connectors for analog outputs

The connection box has 8 BNC connectors Out 0 to Out 7 for the connection of the analog output channels (channel 0-7) of many ADDI-DATA multifunction and output boards (see table on the right). The BNC ground is connected to the ground of the respective analog output channel.

The PX-BNC can be connected to the following ADDI-DATA analog boards:

| Analog input boards | Multifunction boards | Analog outputs boards |
|-------------------------|-------------------------|-----------------------|
| APCI-3001 / CPCI-3001 | APCI-3110* / APCI-3116* | APCI-3500* |
| APCI-3010* / APCI-3016* | APCI-3100* / APCI-3106* | APCI-3501 |
| APCI-3000* / APCI-3006* | APCI-3120 / CPCI-3120 | |

* In preparation



Specifications

| | |
|--------------------|---|
| BNC connector: | for connecting peripherals |
| BNC connector: | In 0-15 for analog input channels Out 0-7 for analog output channels |
| SUB-D connector | 37-pin SUB-D female connector |
| Dimensions: | (L x B x H) 210 x 105 x 50 mm |
| Weight: | 727 g |
| Temperature range: | 0-70 °C |

Pin assignment - 37-pin SUB-D female connector

Connection example with APCI-3120

| DIFF | SE | | SE | DIFF |
|----------------|-----------------|----|------------------|----------------|
| (+) an. inp. 4 | (+) an. inp. 8 | 1 | (+) an. inp. 0 | (+) an. inp. 0 |
| (+) an. inp. 5 | (+) an. inp. 9 | 2 | (+) an. inp. 1 | (+) an. inp. 1 |
| (+) an. inp. 6 | (+) an. inp. 10 | 3 | (+) an. inp. 2 | (+) an. inp. 2 |
| (+) an. inp. 7 | (+) an. inp. 11 | 4 | (+) an. inp. 3 | (+) an. inp. 3 |
| (-) an. inp. 7 | (+) an. inp. 15 | 5 | (+) an. inp. 7 | (-) an. inp. 3 |
| (-) an. inp. 6 | (+) an. inp. 14 | 6 | (+) an. inp. 6 | (-) an. inp. 2 |
| (-) an. inp. 5 | (+) an. inp. 13 | 7 | (+) an. inp. 5 | (-) an. inp. 1 |
| (-) an. inp. 4 | (+) an. inp. 12 | 8 | (+) an. inp. 4 | (-) an. inp. 0 |
| | | 9 | an. input GND | |
| | | 10 | an. input GND | |
| | | 11 | an. output 0 GND | |
| | | 12 | an. output 1 GND | |
| | | 13 | an. output 2 GND | |
| | | 14 | an. output 3 GND | |
| | | 15 | an. output 4 GND | |
| | | 16 | an. output 5 GND | |
| | | 17 | an. output 6 GND | |
| | | 18 | an. output 7 GND | |
| | | 19 | | |

ORDERING INFORMATION

PX-BNC

BNC connection box. Incl. technical description.

Version

PX-BNC: BNC connection box

Accessories

Please order separately!

ST010: Standard round cable, shielded, twisted pairs, 2 m

ST011: Standard round cable, shielded, twisted pairs, 5 m
Other cable lengths on request