

## Accessories

### Programming Adapter CxD for Motion Control Systems V2.5 RS232/CAN interface

**Part No.: 6501.00113**

|                         |  | 6501.00113    |    |
|-------------------------|--|---------------|----|
| Temperature range:      |  |               |    |
| - Operating temperature |  | - 10 ... + 65 | °C |
| Dimension and Weight:   |  |               |    |
| - Dimension (L x B x H) |  | 60 x 50 x 15  | mm |
| - Mass                  |  | 30            | g  |

**Note:** All switches are in the "OFF" position in the as-delivered condition. These switches must be set accordingly depending on the application.

#### General information

The programming adapter is used to connect Brushless DC-Servomotors with integrated Motion Controller and a serial RS232 or CAN interface.

The different operating modes can be selected using the 6 DIP switches. A Brushless DC-Servomotor with integrated Motion Controller can be connected to each programming adapter.

#### Description of DIP switch (S1) settings

|                        |     |  |
|------------------------|-----|--|
| 1: Fault               | ON  | Pull-up resistor with LED connected to programming adapter.  |
|                        | OFF | Open collector   |
| 2: Term                | ON  | 120Ω terminating resistor for the final node in the CAN network connected to the programming adapter.              |
|                        | OFF | Terminating resistor not connected   |
| 3: CAN <sup>1)</sup>   | ON  | Operation with CAN interface   |
|                        | OFF | Deactivated  |
| 4: RS232 <sup>1)</sup> | ON  | Operation with RS232 interface   |
|                        | OFF | Deactivated  |
| 5: NETMODE             | ON  | Pull-down resistor (2,2 kΩ) for RS232 wiring connected. This may only be connected to a node in the RS232 network. |
|                        | OFF | Deactivated  |
| 6: AGND                | ON  | AGND and GND interconnected.   |
|                        | OFF | AGND and GND disconnected (with separate ground).  |

<sup>1)</sup> The pin assignments of X3 depend on the position of switches 3 and 4 of DIP switch S1.

#### Pin assignment

| Pin | Connection X1      | Pin | Connection X2      |
|-----|--------------------|-----|--------------------|
| 1   | 3. In              | 1   | 3. In              |
| 2   | +24V               | 2   | +24V               |
| 3   | GND                | 3   | GND                |
| 4   | An In              | 4   | An In              |
| 5   | AGND               | 5   | AGND               |
| 6   | Fault              | 6   | Fault              |
| 7   | RS-232 RxD / CAN-L | 7   | RS-232 RxD / CAN-L |
| 8   | RS-232 TxD / CAN-H | 8   | RS-232 TxD / CAN-H |
|     |                    | 9   | n.c.               |
|     |                    | 10  | n.c.               |

#### at RS232 operation<sup>1)</sup>

| Pin | Connection X3 |
|-----|---------------|
| 2   | RS-232 / RxD  |
| 3   | RS-232 / TxD  |
| 5   | GND           |

#### at CAN operation<sup>1)</sup>

| Pin | Connection X3 |
|-----|---------------|
| 2   | CAN_L         |
| 3   | GND           |
| 7   | CAN_H         |

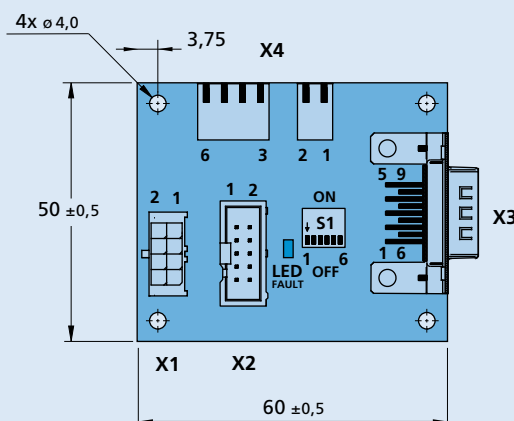
#### Pin Connection X4

|   |       |
|---|-------|
| 1 | +24V  |
| 2 | GND   |
| 3 | An In |
| 4 | AGND  |
| 5 | Fault |
| 6 | 3. In |

#### LED Status

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | LED illuminates<br>no error<br>fault output switched<br>to GND     |
| <input type="checkbox"/>            | LED does not illuminate<br>error<br>fault output<br>high-impedance |

#### Dimensional drawing and connection information



Scale reduced

#### Connection

| No.    | Function              |
|--------|-----------------------|
| X1, X2 | Motor connector       |
| X3     | RS232 / CAN           |
| X4     | Supply connector; I/O |

#### No. Switch

|    |                         |
|----|-------------------------|
| S1 | DIP-switch (6 switches) |
|----|-------------------------|