

**NEW**

# Accessories

## Programming Adapter IMC for Motion Control Systems V3.0 RS232/CAN interface

**Part No.: 6501.00391**

		6501.00391	
Temperature range:			
– Operating temperature		– 40 ... + 85	°C
Dimension and mass:			
– Dimension (L x B x H)		60 x 50 x 18	mm
– Mass		30	g

**Note:** All switches of S1 are in the “OFF” position in the as-delivered condition. These switches must be set accordingly depending on the application. Delivery condition of switch S2 is position U<sub>P</sub> (IMC Standard).

### 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 7 DIP switches. One Brushless DC-Servomotor with integrated Motion Controller can be connected to each programming adapter.

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

- 1: NETMODE ON Pull-down resistor (10 kΩ) for RS232 wiring connected. This may only be connected to a node in the RS232 network  
OFF Deactivated
- 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: RS232<sup>1)</sup> ON Operation with RS232 interface  
OFF Deactivated
- 4: CAN<sup>1)</sup> ON Operation with CAN interface  
OFF Deactivated
- 5: AGND ON AGND and GND interconnected.  
OFF AGND and GND disconnected (with separate ground)
- 6: DigOut2 ON Pull-up resistor with LED connected to U<sub>DD</sub> = +5V  
OFF Open collector
- 7: DigOut1 ON Pull-up resistor with LED connected to U<sub>DD</sub> = +5V  
OFF Open collector

#### Pin assignment

Pin	Connection X1	Pin	Connection X3
1	U <sub>DD</sub> (+5V, max. 100mA out)	1	U <sub>P</sub> (AnIn2 Option 7431)
2	GND	2	U <sub>MOT</sub> (U <sub>B</sub> Option 7431)
3	n.c.	3	GND
4	n.c.	4	DigIn1 / DigOut2 / AnIn1
5	DigIn1 / DigOut2 / AnIn1	5	DigIn2 / AGND
6	DigIn2 / AGND	6	DigIn3 DigOut1
7	DigIn3 / DigOut1	7	RxD / CAN_L
8	n.c.	8	TxD / CAN_H
9	AnIn2 (Option 7431)		
10	n.c.		
11	U <sub>P</sub>		
12	GND		
13	U <sub>MOT</sub> (U <sub>B</sub> Option 7431)		
14	GND		

#### Option 7431

Common supply voltage for motor and electronics

#### Description of DIP switch (S2) settings

- U<sub>P</sub> IMC standard - U<sub>P</sub> connection at X1 Pin 11
- AnIn2 IMC with Option 7431 - AnIn2 connection at X1 Pin 9

#### Description of DIP switch (S3) settings

- Push DigIn2 connected to U<sub>DD</sub> = +5V

<sup>1)</sup> The pin assignments of X2 depend on the position of switches 3 and 4 of DIP switch S1.

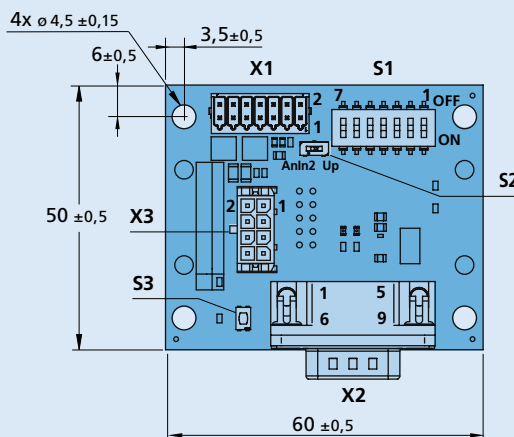
#### at RS232 operation<sup>1)</sup>

Pin	Connection X2
2	RS-232 / RxD
3	RS-232 / TxD
5	GND

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

Pin	Connection X2
2	CAN_L
3	GND
7	CAN_H

### Dimensional drawing and connection information



Scale reduced

#### Connection

No.	Function
X1	Supply and I/O connector
X2	RS232 / CAN
X3	Motor connector

#### No. Switch

S1	DIP-switch (7 switches)
S2	DIP-switch 1 toggle switch
S3	DIP-switch 1 push button