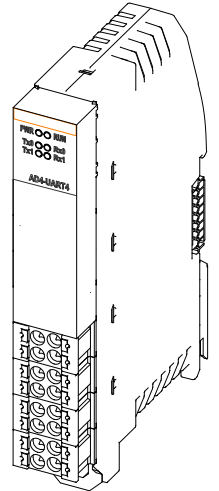


# AD4-UART4

Communication module

- 2 RS485 interfaces with galvanic isolation
- Transmission rate 2.4 kbps to 115.2 kbps
- LED module activity indication
- System bus for connection to AD4-CPS with TBUS connectors
- Maximum number of 5 modules in an assembly
- Termination of the line with jumpers on the connector
- Mounted on a 35 mm DIN rail



## TECHNICAL DATA

<b>Number of lines</b>	2
Transfer rate	2.4 kbps to 115.2 kbps
Galvanic isolation	Yes
GI strength	500 V AC / 1 minute <sup>1)</sup>
<b>Power supply</b>	
Maximum module power consumption	0.5 W <sup>2)</sup>
<b>Other</b>	
Connection to the system bus	TBUS connectors
Maximum number of modules in an assembly	5 <sup>2)</sup>
Signals connection	Phoenix Contact, HSCP-SP series Push-in spring clamps
Ingress protection rate	IP20
Operating temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	On a 35 mm DIN rail
Weight	0.08 kg
Dimensions (w × h × d)	(18.7 × 124.3 × 76.5) mm

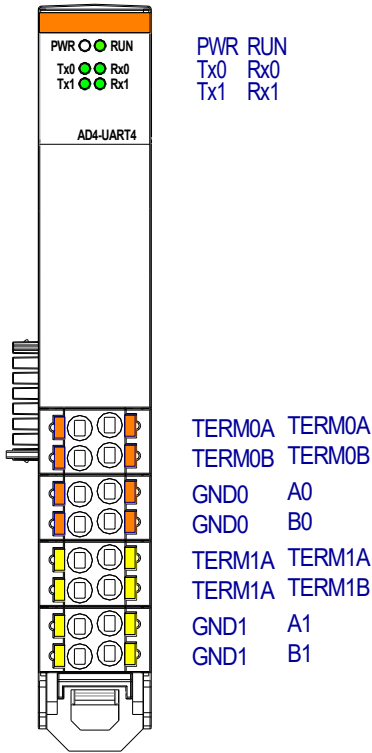
<sup>1)</sup> Galvanic isolation must not be used for separation of safe and dangerous parts.

<sup>2)</sup> The power supply on the **AD4-CPS** is capable of supplying 48 W to power the modules. Fitting other modules affects the maximum number of **AD4-UART4** in the assembly.

## ORDERING INFORMATION

<b>AD4-UART4</b>	Communication module 2× RS485, connectors Phoenix Contact, HSCP-SP
<b>TBUS8-18,8-7P1S</b>	System bus connector (not included in the module delivery)

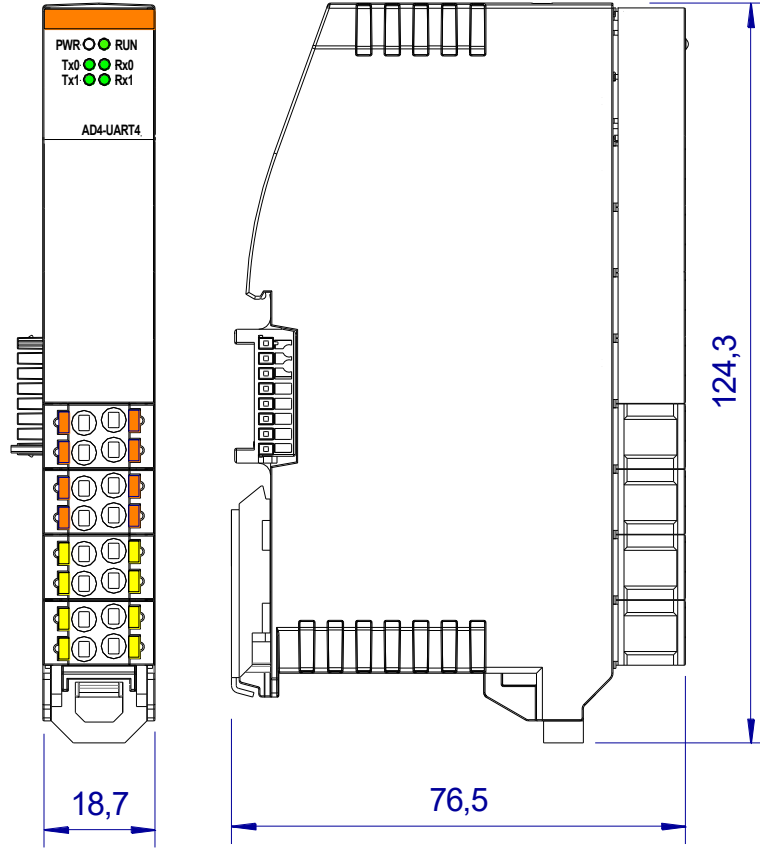
## CONNECTOR AND LED LAYOUT



PWR RUN  
Tx0 Rx0  
Tx1 Rx1

TERM0A TERM0A  
TERM0B TERM0B  
GND0 A0  
GND0 B0  
TERM1A TERM1A  
TERM1A TERM1B  
GND1 A1  
GND1 B1

## MECHANICAL DIMENSIONS



## DESCRIPTION OF TERMINALS

### RS485 0 with galvanic isolation

Terminal	Signal	Significance
1	TERM0A	RS485, termination, idle state of signal A, connect these terminals
2	TERM0A	
3	TERM0B	RS485, termination, idle state of signal B, connect these terminals
4	TERM0B	

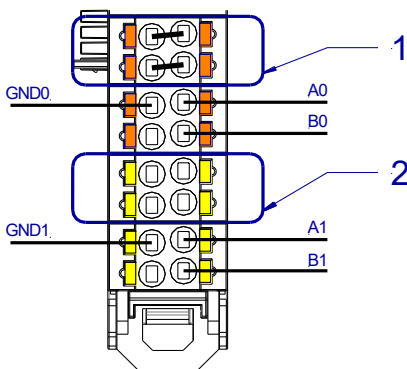
Terminal	Signal	Significance
5	GND0	RS485, ground
6	A0	RS485, signal A
7	GND0	RS485, ground
8	B0	RS485, signal B

### RS485 1 with galvanic isolation

Terminal	Signal	Significance
9	TERM1A	RS485, termination, idle state of signal A, connect these terminals
10	TERM1A	
11	TERM1B	RS485, termination, idle state of signal B, connect these terminals
12	TERM1B	

Terminal	Signal	Significance
13	GND1	RS485, ground
14	A1	RS485, signal A
15	GND1	RS485, ground
16	B1	RS485, signal B

## SETTING TERMINATION AND IDLE STATES



Interface	Terminals	Significance
RS485 0	1 and 2 – Connected 3 and 4 – Connected	End station

Interface	Terminals	Significance
RS485 1	9 and 10 – Unconnected 11 and 12 – Unconnected	Continuous station