

**BECKHOFF** New Automation Technology

Manual | EN

# CU8803-000x

Transmitter box for CP-Link 4





# Table of contents

<b>1</b>	<b>Notes on the documentation</b>	<b>5</b>
<b>2</b>	<b>For your safety</b>	<b>6</b>
2.1	Signal words	6
2.2	Intended use	6
2.3	Fundamental safety instructions	7
2.3.1	Special requirements (ATEX)	7
2.3.2	Special requirements (IECEx)	8
2.4	Operator's obligation to exercise diligence	8
<b>3</b>	<b>Product overview</b>	<b>9</b>
3.1	Structure	9
3.1.1	USB input	10
3.1.2	DVI input	10
3.1.3	CP-Link 4 output	11
3.1.4	Power supply	12
3.2	Name plate	13
<b>4</b>	<b>Commissioning</b>	<b>14</b>
4.1	Transport and unpacking	14
4.2	Control cabinet installation	15
4.3	Connect transmitter box	16
<b>5</b>	<b>Decommissioning</b>	<b>18</b>
<b>6</b>	<b>Maintenance</b>	<b>20</b>
<b>7</b>	<b>Technical data</b>	<b>21</b>
<b>8</b>	<b>Appendix</b>	<b>22</b>
8.1	Service and support	22
8.2	Approvals	23



# 1 Notes on the documentation

This description is only intended for the use of trained specialists in control and automation engineering who are familiar with the applicable national standards.

The following instructions and explanations must be followed during installation and commissioning of the components. The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

## Disclaimer

The documentation has been prepared with care. The products described are, however, constantly under development. For that reason the documentation is not in every case checked for consistency with performance data, standards or other characteristics. In the event that it contains technical or editorial errors, we retain the right to make alterations at any time and without warning. No claims for the modification of products that have already been supplied may be made on the basis of the data, diagrams, and descriptions in this documentation. All illustrations shown are only examples. The configurations depicted may deviate from the standard.

## Trademarks

Beckhoff®, TwinCAT®, TwinCAT/BSD®, TC/BSD®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, Safety over EtherCAT®, TwinSAFE®, XFC®, XTS® and XPlanar® are registered and licensed trademarks of Beckhoff Automation GmbH.

Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

## Patents

The EtherCAT Technology is covered, including but not limited to the following patent applications and patents: EP1590927, EP1789857, EP1456722, EP2137893, DE102015105702 and similar applications and registrations in several other countries.

## Copyright

© Beckhoff Automation GmbH & Co. KG. Publication of this document on websites other than ours is prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design.

## Delivery state

All the components are supplied in particular hardware and software configurations appropriate for the application. Changes to the hardware or software configuration are permitted, provided they are within the specified limits for power consumption and power loss (please refer to the respective data sheet).

## Currentness

Please check whether you are using the current and valid version of this document. The current version is always available for download from the Beckhoff website. In case of doubt, contact Technical Support.

## Delivery conditions

In addition, the general delivery conditions of the company Beckhoff Automation GmbH & Co. KG apply.

## 2 For your safety

The Safety chapter first explains the safety symbols used in the documentation and their meanings. They contain fundamental safety instructions that are essential for the avoidance of personal injuries and damage to property.

### Exclusion of liability

Beckhoff shall not be liable in the event of non-compliance with this documentation and thus the use of the devices outside the documented operating conditions.

## 2.1 Signal words

The signal words used in the documentation are classified below.

### Warning of personal injuries

<b>⚠ DANGER</b>
Hazard with high risk of death or serious injury.
<b>⚠ WARNING</b>
Hazard with medium risk of death or serious injury.
<b>⚠ CAUTION</b>
There is a low-risk hazard that can result in minor injury.

### Warning of property and environmental damage

<b>NOTICE</b>
There is a possibility of damage to the environment, equipment or data.

## 2.2 Intended use

The CP-Link 4 transmitter box CU8803-000x is designed for DIN rail mounting in control cabinets of machine and system engineering. It is used to operate a Control Panel CP29xx-0010, CP39xx-0010 or CPX39xx-0010 at a distance of up to 100 m from the industrial PC. The transmitter box can be used in hazardous areas and is ATEX and IECEx certified.

The transmitter box is designed for a working environment that meets the IP20 protection rating. This involves finger protection and protection against solid foreign objects up to 12.5 mm. There is no protection against water. Operation of the devices in wet and dusty environments is not permitted.

The specified limits for technical data must be adhered to.

The transmitter box can be used within the documented operating conditions.

### Improper use

Do not use the transmitter box outside the documented operating conditions.

## 2.3 Fundamental safety instructions

The following safety instructions must be observed when handling the transmitter box.

### Application conditions

- Do not use the transmitter box under extreme environmental conditions.
- Only use the transmitter box in hazardous areas if it is explicitly designed for this purpose.
- Never plug or unplug connectors during thunderstorms. There is a risk of electric shock.
- Provide protective grounding for the transmitter box.

### Damage to property and impairment of functions

- Ensure that only trained specialists with a control and automation engineering background, operate the PC to which the transmitter box is connected. Use by unauthorized persons can lead to damage to property.
- Fuse the power supply line with max. 16 A. The fuse serves to protect the supply line in the event of a short circuit.
- In case of fire, extinguish the transmitter box with powder or nitrogen.

### 2.3.1 Special requirements (ATEX)

#### WARNING

##### Risk of explosion

Gases can be ignited in hazardous areas. Read and follow the safety instructions to avoid deflagration or explosion.

The device must be installed in a suitable housing with IP54 protection rating according to EN 60079-15, taking into account the environmental conditions in which the device will be used.

Precautions are to be taken to prevent the nominal voltage from being exceeded by transient disturbances in excess of 119 V.

Observe the permissible ambient temperature range of 0-55 °C for the use of CU8803 in hazardous areas.

Secure the USB connector to the bracket with cable ties.

The device may only be used in an area with a maximum degree of pollution of 2 according to IEC 60664-7.

## 2.3.2 Special requirements (IECEX)

### WARNING

#### Risk of explosion

Gases can be ignited in hazardous areas. Read and follow the safety instructions to avoid deflagration or explosion.

The device must be installed in a suitable housing with IP54 protection rating according to EN 60079-15, taking into account the environmental conditions in which the device will be used.

Precautions are to be taken to prevent the nominal voltage from being exceeded by transient disturbances in excess of 119 V.

Observe the permissible ambient temperature range of 0-55 °C for the use of CU8803 in hazardous areas.

Secure the USB connector to the bracket with cable ties.

The device may only be used in an area with a maximum degree of pollution of 2 according to IEC 60664-7.

## 2.4 Operator's obligation to exercise diligence

The operator must ensure that

- the products are only used as intended (see chapter 2.2 [Intended use](#) [▶ 6]).
- the products are only operated in sound condition and in working order.
- only sufficiently qualified and authorized personnel operate the PC to which the transmitter box is connected.
- the personnel is instructed regularly about relevant occupational safety and environmental protection aspects, and is familiar with the operating instructions and in particular the safety instructions contained herein.
- the operating instructions are in good condition and complete, and always available for reference at the location where the products are used.



### 3 Product overview

The CU8803-000x CP-Link 4 transmitter box enables the control panel to be located up to 100 m away from the industrial PC. The transmitter box is located at a maximum distance of 1 m from the industrial PC and must be supplied with 24 V DC. It transmits DVI, USB and the power supply to the control panel via a Cat.6A cable (The One Cable Display Link).

The CU8803-0000 transmitter box is designed for connecting the Control Panels CP29xx-0010, CP39xx-0010 and CPX39xx-0010 to a PC with a DVI port.

The CU8803-0001 transmitter box is designed for connecting the Control Panels CP29xx-0010 and CP39xx-0010 to a C60xx PC or an ATX PC with DisplayPort.

#### 3.1 Structure

The figure shows an example of a CU8803-0000 transmitter box.

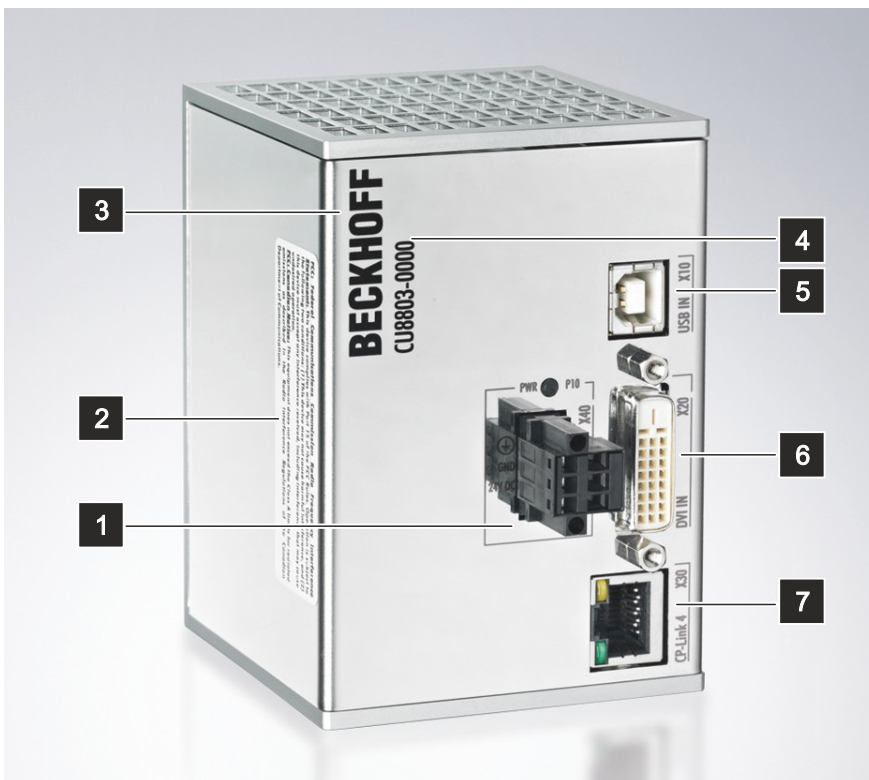


Fig. 1: Structure

Table 1: Legend - CU8803 structure

No.	Component	Description
1	Power supply (X40)	Power supply connection
2	FCC approval text	FCC approvals for the United States of America and Canada
3	Vendor	Beckhoff Automation GmbH & Co. KG
4	Model	Ending -0000: Device with DVI cable Extension -0001: Device with DisplayPort cable
5	USB input (X10)	Connection to the industrial PC
6	DVI input (X20)	Connection to the industrial PC
7	CP-Link 4 output (X30)	Transmission of DVI, USB and power supply to the control panel

### 3.1.1 USB input

The transmitter box has a USB 2.0 input (X10) with socket type B. The transmitter box is connected to the industrial PC via the USB input. The maximum cable length is 1 m.

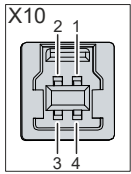


Fig. 2: USB input pin numbering

Table 2: USB input pin assignment

Pin	Assignment
1	Vbus
2	D -
3	D +
4	GND

### 3.1.2 DVI input

The transmitter box has a DVI input (X20). The transmitter box is connected to the industrial PC via the DVI input. The maximum cable length is 1 m.

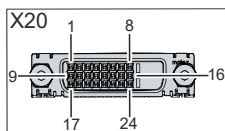


Fig. 3: DVI input pin numbering

Table 3: DVI Extended interface pin assignment

Pin	Assignment	Pin	Assignment	Pin	Assignment
1	TDMS Data 2 -	9	TDMS Data 1 -	17	TDMS Data 0 -
2	TDMS Data 2 +	10	TDMS Data 1 +	18	TDMS Data 0 +
3	TDMS Data 2/4 Shield	11	TDMS Data 1/3 Shield	19	TDMS Data 0/5 Shield
4	not used	12	not used	20	not used
5	not used	13	not used	21	not used
6	DDC Clock	14	+ 5 V Power	22	TDMS Clock Shield
7	DDC Data	15	Ground (+ 5 V, Analog H/V Sync)	23	TDMS Clock +
8	Analog Vertical Sync	16	Hot Plug Detect	24	TDMA Clock -

### 3.1.3 CP-Link 4 output

The transmitter box has a CP-Link 4 output (X30). The CP-Link 4 output connects the transmitter box to the control panel, which acts as the operating element.

Using a Cat.6A cable, the transmitter box can transmit DVI, USB and the power supply to the control panel (The One Cable Display Link). The control panel can thus be operated at a distance of up to 100 m from the transmitter box.

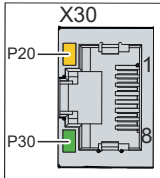


Fig. 4: CP-Link 4 pin numbering

Table 4: CP-Link 4 pin assignment

Pin	Signal
1	0 +
2	0 -
3	1 +
4	2 +
5	2 -
6	1 -
7	3 +
8	3 -

There are two LEDs at the CP-Link-4 output. The following table provides information about the meanings of the LEDs.

Table 5: CP-Link 4 LED meanings

LED	Assignment	Status	Meaning
P20	Activity	off	no data transmission
		flashes yellow	DVI data is transferred
P30	Connection	off	no connection to the control panel
		green illuminated	Connection to the control panel established

### 3.1.4 Power supply

The transmitter box is supplied with a nominal input voltage of 24 V<sub>DC</sub>. The power supply and the protective earth of the device are connected via the 3-pin voltage socket (X40).

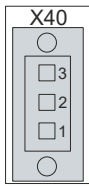


Fig. 5: Voltage socket pin numbering

Table 6: Voltage socket pin assignment

Pin	Signal	Description
3	⊕	Protective earth
2	-	Negative pole power supply 24 V
1	+ 24 V	24 V power supply, positive pole

The connector for the power supply is specified for 8 A and can accept wire cross-sections up to 1.5 mm<sup>2</sup> with ferrules without collars. When using ferrules with collars, the wire cross-section is reduced to 1 mm<sup>2</sup>. Use 1.5 mm<sup>2</sup> or 1 mm<sup>2</sup> for long supply lines to achieve a low voltage drop on the supply lines. At least 22 V should be present at the power supply plug of the transmitter box so that the transmitter box remains switched on in the event of voltage fluctuations. The plug is included in the scope of delivery. You can obtain a replacement plug from your Beckhoff Sales using the following ordering option:

- C9900-P944: Power supply connector for CU8xxx, 3-pin connector with spring-cage connection for the external supply cables

The P10 LED is located above the interface. It provides information about the status of the power supply. The LED indicates the following states:

- LED is off: no supply voltage
- LED lights up green: 24 V<sub>DC</sub> applied

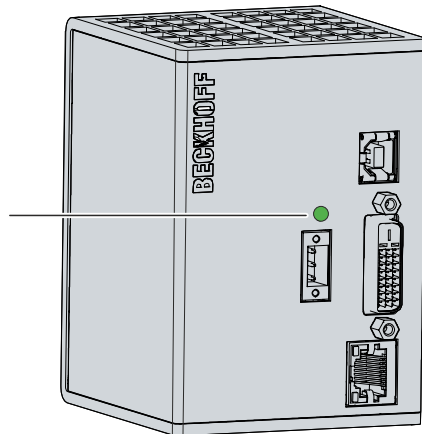


Fig. 6: LED voltage socket

### 3.2 Name plate

The name plate provides information about the transmitter box equipment. The name plate shown here serves only as an example of a device that may be used in a hazardous area.

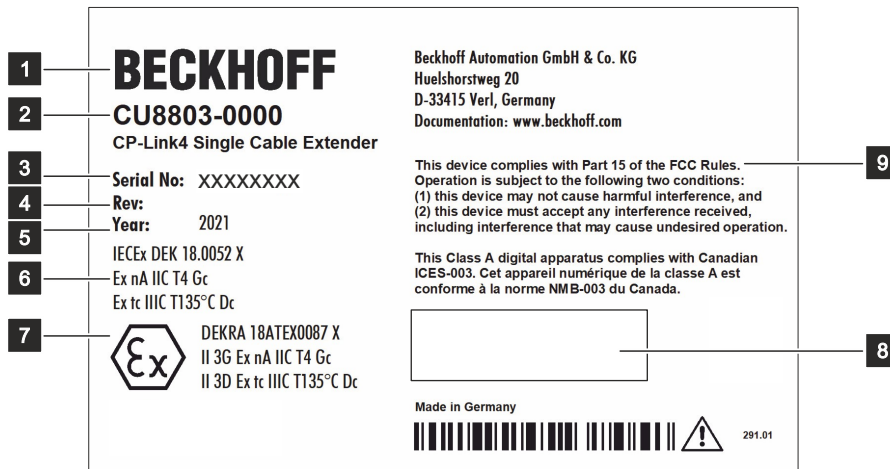



Fig. 7: Name plate

Table 7: Legend CU8803 name plate

No.	Description
1	Manufacturer, including address
2	Model: The last four digits indicate the product variant
3	Serial number (BTN)
4	Revision
5	Year of production
6	Certification for use in hazardous areas
7	Certification for use in hazardous areas
8	Symbols  Note: Here are the symbols applicable to the device such as CE, EAC, UKCA,  . The approvals of your device can be found on the name plate and in chapter 9.2 Approvals [▶ 23].
9	FCC approval

## 4 Commissioning

In order to use the transmitter box, you must first commission it. The first step is to transport the device to its operating location and unpack it. This is followed by mounting the device on the DIN rail and connecting the data lines and the power supply.

### 4.1 Transport and unpacking

Note the specified transport and storage conditions (see Chapter 8 [Technical data](#) [► 21]).

#### NOTICE

##### Hardware damage due to condensation

Unfavorable weather conditions during transport can cause damage to the device.

- Protect the device against moisture (condensation) during transport in cold weather or in case of extreme temperature fluctuations.
- Do not put the device into operation until it has slowly adjusted to the room temperature.
- Should condensation occur, wait for about 12 hours before switching the device on.

##### Unpacking

Proceed as follows to unpack the unit:

1. Check the packaging for transport damage.
2. Remove packaging.
3. Keep the packaging for possible future transport.
4. Check your delivery for completeness by comparing it with your order.
5. Check the contents for visible shipping damage.

In case of discrepancies between the package contents and the order, or in case of transport damage, please inform Beckhoff Service (see Chapter 9.1 [Service and Support](#) [► 22]).

## 4.2 Control cabinet installation

### NOTICE

#### Extreme environmental conditions

Extreme environmental conditions can cause damage to the transmitter box.

- Avoid extreme environmental conditions.
- Protect the transmitter box from moisture and heat.

### NOTICE

#### Incorrect installation

Mounting the device in a way that deviates from the documentation can impair its functionality.

- Mount the device only in the orientations shown in the documents.

The CU8803-000x transmitter box is designed for DIN rail mounting in control cabinets of machine and system engineering. Please observe the environmental conditions prescribed for the operation (see Chapter 8 [Technical data](#) [▶ 21]).

The following dimensions of the device are given in mm.

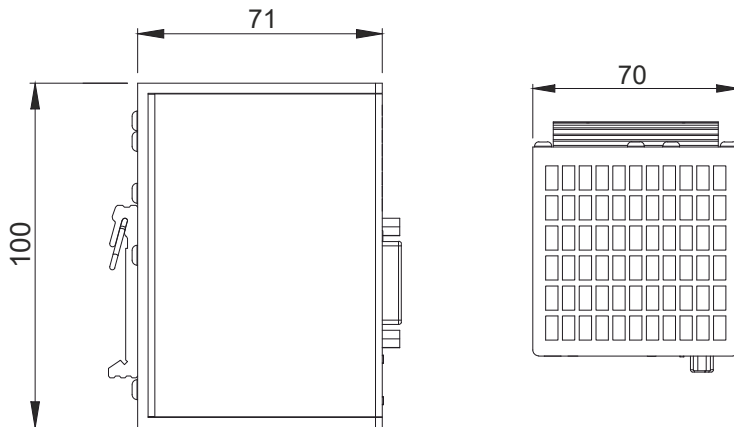


Fig. 8: Dimensions

The transmitter box is mounted on a 35 mm DIN rail (according to EN 50022) via the back of the transmitter box. Follow the steps below as shown in Figure 9 when mounting:

1. Hook the transmitter box into the DIN rail at an angle from above (section A).
  2. Tilt the bottom of the transmitter box to the DIN rail and hook it in as well (section B).
- ⇒ You have mounted the transmitter box on the DIN rail.

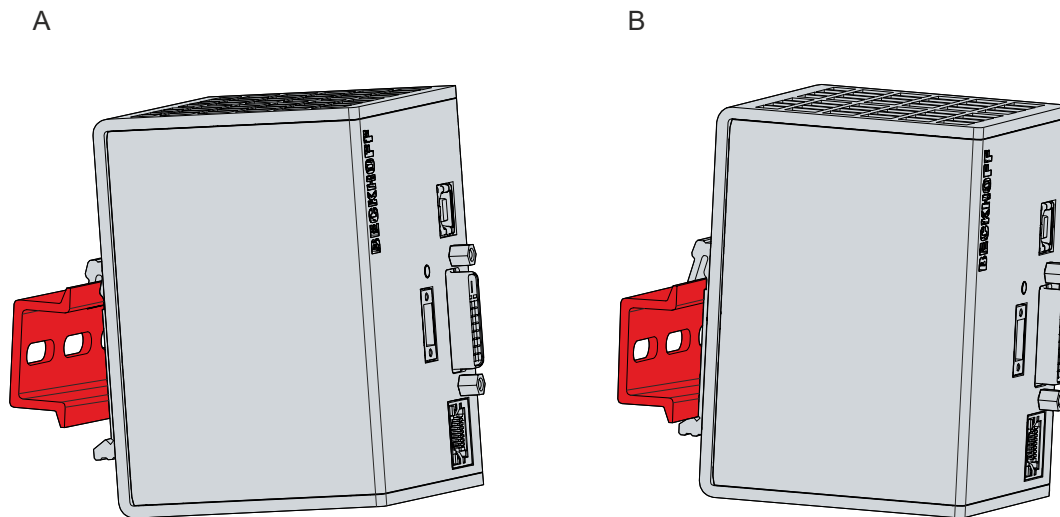


Fig. 9: DIN rail installation

### 4.3 Connect transmitter box

#### ⚠ CAUTION

##### Risk of electric shock

Dangerous touch voltages can lead to electric shock. To avoid electric shock, observe the following:

- Never connect or disconnect the transmitter box cable during a thunderstorm.
- Provide protective earthing for handling the transmitter box.

#### NOTICE

##### Incorrect connection procedure

Incorrect procedure when connecting the cable can cause hardware damage.

- Follow the documented procedure for connecting the cable.
- First connect the cable and only then switch on the power supply.

To make the transmitter box ready for operation, you have to connect it. The first step is to ground the device. Then you can connect the cables and the power supply.

An external power supply unit is required to supply 24 V DC (-15 %/+20 %) for operating the device.

The cabling of the transmitter box in the control cabinet must be done in accordance with the standard EN 60204-1:2006 PELV = Protective Extra Low Voltage:

- The PE conductor (protective earth) and the "0 V" conductor of the voltage source must be on the same potential (connected in the control cabinet).
- Standard EN 60204-1:2006, section 6.4.1:b stipulates that one side of the circuit, or a point of the energy source for this circuit must be connected to the protective conductor system.

Devices connected to the transmitter box with their own power supply must have the same potential for the PE "0 V" conductors as the control panel (no potential difference).

#### Grounding

Potential differences are minimized and electrical currents are diverted to the ground through protective earthing or potential equalization of electronic devices. This is to prevent dangerous touch voltages and electromagnetic interference.

The voltage socket of the transmitter box contains a PIN for protective earthing. Establish the low-resistance protective earthing by connecting the power supply.



**Connect transmitter box**

Make sure that you plug all data transmission cables into the transmitter box first and then connect the power supply.

Cables with a maximum cable cross-section of 1.5 mm<sup>2</sup> can be used for connecting the power supply. For long supply lines, use 1.5 mm<sup>2</sup> cables to achieve a low voltage drop on the supply line. At least 22 V should be present at the power supply plug of the transmitter box so that the transmitter box remains switched on in the event of voltage fluctuations.

Proceed as follows to connect the 24 V<sub>DC</sub> power supply unit:

1. Plug the voltage connector into the voltage socket on the transmitter box.
  2. Screw the voltage connector to the voltage socket.
  3. Connect the transmitter box to your external 24 V power supply.
  4. Switch on the 24 V power supply.
  5. Measure the voltage at the 3-pin connection strip of the transmitter box.
- ⇒ You have connected the transmitter box.

**Mounting strain relief**

To meet the criteria of ATEX certification II 3G Ex ec IIC T4 Gc and II 3D Ex tc IIIC T135 °C Dc for use in hazardous areas, you need a strain relief for the USB connector. Use the Beckhoff ordering option C9900-Z484 for this.

The strain relief is labeled on one side. You can see from the labeling which of the two brackets is to be used for the CU8803 transmitter box. The corresponding bracket is additionally marked in Figure 10.

To mount the strain relief on the DIN rail next to the transmitter box, follow the steps below, shown in Figure 10:

1. Hook the strain relief bracket into the DIN rail with the lower hook immediately to the right of the transmitter box (section A). Make sure that the labeled side faces to the right.
2. Tilt the strain relief into a straight position to hook the other side of the bracket into the DIN rail (section B).
3. Tighten the two Torx TX20 screws on the strain relief bracket (section C).

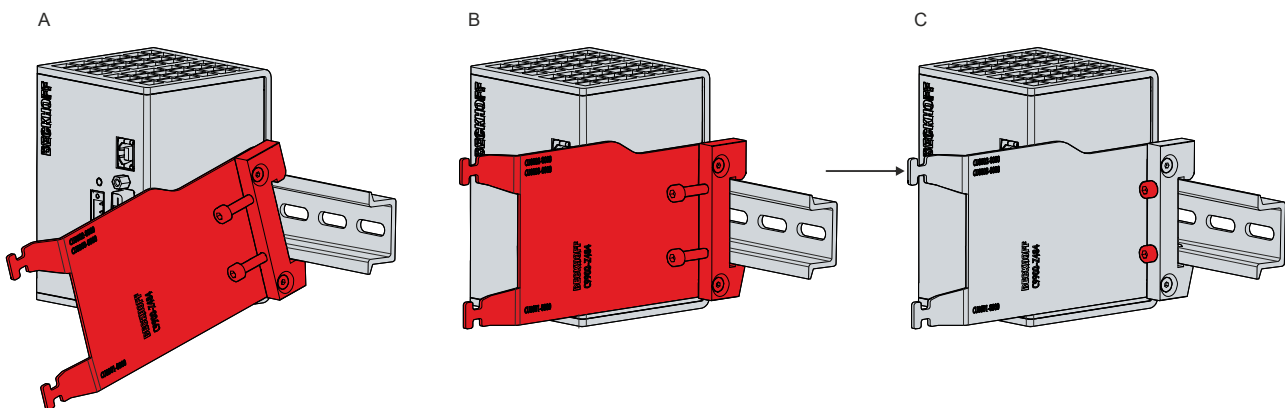


Fig. 10: Mounting strain relief

- ⇒ You have mounted the strain relief on the DIN rail.
4. Secure the USB connector to the bracket with cable ties.
  5. Check the tensile strength of the cable. If necessary, retighten the cable ties.
  6. Cut off the rest of the cable ties with pliers or side cutters.
- ⇒ You have attached the USB connector to the strain relief.

## 5 Decommissioning

### ⚠ CAUTION

#### Risk of electric shock

Disconnecting the transmitter box during a thunderstorm can lead to electric shock.

- Never disconnect the cables from the transmitter box during thunderstorms.

### NOTICE

#### Hardware damage due to power supply

A connected power supply can cause damage to the transmitter box during disassembly.

- Disconnect the power supply from the device before starting to disassemble it.

As part of the decommissioning of the transmitter box, you must first disconnect the power supply and cables. You can then remove the transmitter box from the control cabinet.

#### Disconnecting the power supply and cables

Follow the steps below to disconnect the power supply and cables from the transmitter box:

1. Disconnect the transmitter box from your external 24 V power supply.
2. Unscrew the 3-pin voltage connector and pull it out of the voltage socket.
3. Remove the power supply cable if the 3-pin connector is to remain with the transmitter box.
4. Make a note of the wiring of all data transmission cables if you want to restore the cabling with another device.
5. Cut the cable ties on the strain relief on the optional C9900-Z484 strain relief, if present.
6. Disconnect all data transfer cables from the transmitter box.

⇒ You have disconnected the cables and power supply.

#### DIN rail disassembly

First, remove the optional strain relief, if present, from the DIN rail by following the steps shown in Figure 11:

1. Loosen and remove the two Torx TX20 screws (section A). Make sure that the strain relief is secured against falling down.
2. Unhook the upper hook of the bracket from the DIN rail (section B).
3. Unhook the lower hook of the bracket from the DIN rail (section C).

⇒ You have removed the strain relief.

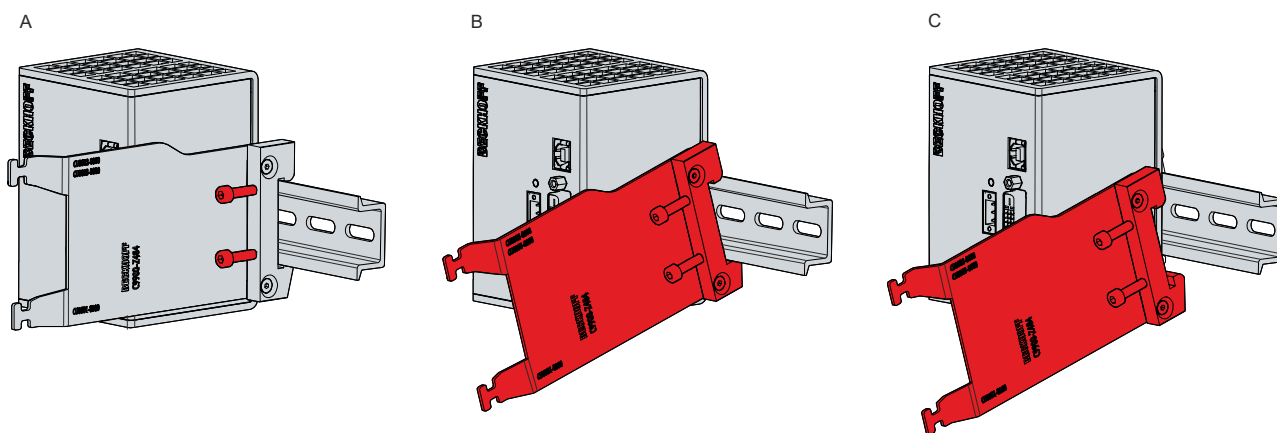


Fig. 11: Removing strain relief

To remove the transmitter box from the DIN rail, follow the steps below, shown in Figure 12:

1. Press the transmitter box down on the DIN rail (section A).

- ⇒ The lower hook of the transmitter box is unhooked from the DIN rail.
- 2. Tilt the lower, unhooked part of the transmitter box forward (section B).
- 3. Unhook the upper hook of the transmitter box from the DIN rail (section C).
- ⇒ You have removed the transmitter box.

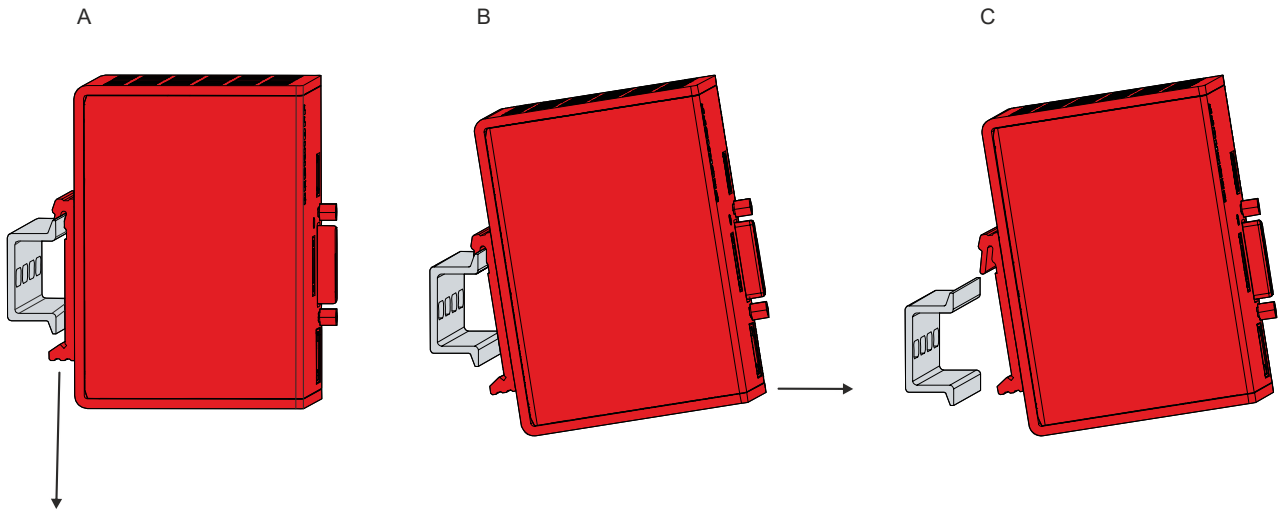


Fig. 12: Removing transmitter box

## 6 Maintenance

Maintenance measures increase the efficiency of the device by ensuring long-term functionality. Cleaning the device contributes to this.

### Cleaning

#### **NOTICE**

##### **Unsuitable cleaning agents**

The use of unsuitable cleaning agents can damage the device.

- Clean the transmitter box only as specified.

It is essential to observe the following aspects when cleaning the transmitter box:

- Keep to the boundary conditions of protection rating IP20.
- Only use a vacuum cleaner to clean the transmitter box. The device does not have to be switched off for this.
- Never use compressed air to clean the transmitter box.
- Maintain an ambient temperature range of 0 °C to 55 °C.

Avoid the following cleaning agents:

- detergents with scouring and abrasive components
- metal cleaning objects such as razor blades or steel spatulas

## 7 Technical data

<b>Product designation</b>	<b>CU8803-000x</b>
Dimensions (W x H x D)	70 x 100 x 80 mm
Weight	745 g
Supply voltage	20.4-30 V <sub>DC</sub> (24 V <sub>DC</sub> power supply unit, NEC class 2)
max. current consumption with control panel	4.7 A
Protection rating	IP20
Vibration resistance (sinusoidal vibration)	EN 60068-2-6: 10 to 58 Hz: 0.035 mm 58 to 500 Hz: 0.5 G (approx. 5 m/s <sup>2</sup> )
Shock resistance (shock)	EN 60068-2-27: 5 G (approx. 50 m/s <sup>2</sup> ), duration: 30 ms
EMC interference immunity	conforms to EN 61000-6-2
EMC interference emission	conforms to EN 61000-6-4
Permissible ambient temperature	+0 °C to 55 °C (operation) -25 °C to 70 °C (transport / storage)
Permissible air humidity	Maximum 95 %, no condensation
Transport and storage	The same values for air humidity and shock resistance are to be observed during transport and storage as in operation. The shock resistance during transport can be improved by suitable packaging of the transmitter box.

## 8 Appendix

In the appendix you will find information for servicing and details of the approvals that your device has.

### 8.1 Service and support

Beckhoff and its worldwide branch offices offer comprehensive service and support, providing fast and competent assistance with all issues relating to Beckhoff products and system solutions.

#### **Beckhoff Service**

The Beckhoff Service Center supports you in all matters of after-sales service:

- on-site service
- repair service
- spare parts service
- hotline service

Hotline: + 49 5246/963-460  
email: [service@beckhoff.com](mailto:service@beckhoff.com)

If your device requires service, please indicate the serial number, which you can find on the name plate.

#### **Beckhoff Support**

Support offers you comprehensive technical assistance, helping you not only with the application of individual Beckhoff products, but also with other, wide-ranging services:

- World-wide support
- Design, programming and commissioning of sophisticated automation systems
- extensive training program for Beckhoff system components

Hotline: + 49 5246/963-157  
email: [support@beckhoff.com](mailto:support@beckhoff.com)

#### **Headquarters**

Beckhoff Automation GmbH & Co. KG  
Hülshorstweg 20  
33415 Verl  
Germany

Phone: + 49 5246/963-0  
email: [info@beckhoff.de](mailto:info@beckhoff.de)

The addresses of the worldwide Beckhoff branches and agencies can be found on our website at <http://www.beckhoff.com/>.

You will also find further documentation for Beckhoff components there.

## 8.2 Approvals

The device has the following approvals:

- CE
- ATEX
- IECEX

You will find all other applicable approvals on the name plate of your device.

### **FCC approvals for the United States of America**

FCC: Federal Communications Commission Radio Frequency Interference Statement

This device was tested and complies with the limits for a digital device of class A, according part 15 of the FCC regulations. These limits are designed to provide adequate protection against adverse interference, if the device is used in a commercial environment. This device generates, uses and may emit radio frequency energy and may cause adverse interference with radio communications, if it is not installed and used in accordance with the operating instructions. If this device is used in a residential area it is likely to cause adverse interference, in which case the user must take appropriate countermeasures in order to eliminate the interference at his own expense.

### **FCC approvals for Canada**

FCC: Canadian Notice

This device does not exceed the class A limits for radiation, as specified by the Radio Interference Regulations of the Canadian Department of Communications.

## List of figures

Fig. 1	Structure.....	9
Fig. 2	USB input pin numbering .....	10
Fig. 3	DVI input pin numbering.....	10
Fig. 4	CP-Link 4 pin numbering.....	11
Fig. 5	Voltage socket pin numbering.....	12
Fig. 6	LED voltage socket .....	12
Fig. 7	Name plate.....	13
Fig. 8	Dimensions .....	15
Fig. 9	DIN rail installation .....	16
Fig. 10	Mounting strain relief.....	17
Fig. 11	Removing strain relief .....	18
Fig. 12	Removing transmitter box .....	19



## List of tables

Table 1	Legend - CU8803 structure.....	9
Table 2	USB input pin assignment.....	10
Table 3	DVI Extended interface pin assignment.....	10
Table 4	CP-Link 4 pin assignment.....	11
Table 5	CP-Link 4 LED meanings.....	11
Table 6	Voltage socket pin assignment.....	12
Table 7	Legend CU8803 name plate.....	13



More Information:  
[www.beckhoff.com/cu8803-000x](http://www.beckhoff.com/cu8803-000x)

Beckhoff Automation GmbH & Co. KG  
Hülshorstweg 20  
33415 Verl  
Germany  
Phone: +49 5246 9630  
[info@beckhoff.com](mailto:info@beckhoff.com)  
[www.beckhoff.com](http://www.beckhoff.com)

