

## Assembly instructions for E-BOX XL IO-LINK

Version: 1.1 from 01.06.2026  
Original in English



Follow these assembly instructions for a proper and safe use. Keep them for future reference.

## Manufacturer:

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## Display types used

- Handling instructions*
1. Complete step 1.
  2. Complete step 2.
    - This interim result is due to.
  3. Complete step 3.
    - ✓ You have performed the action.

*Hazard classes and tips*

 <b>GEFAHR</b>	Probable danger to life
 <b>WARNUNG</b>	Possible danger to life
 <b>VORSICHT</b>	Minor to moderate bodily injury possible
<b>ACHTUNG</b>	Material damage possible
★ <b>TIPP</b>	Application tips / useful information

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**Change history**

<b>Version</b>	<b>Date of the change</b>	<b>Reason</b>	<b>Responsible</b>
1.0	24.11.2025		RAFI GmbH & Co. KG
1.1	01.06.2026	Additions in section 4.2 Installation	RAFI GmbH & Co. KG

## Table of contents

<b>1</b>	<b>Safety</b> .....	<b>6</b>
1.1	Intended use.....	6
1.2	Misuse.....	6
1.3	Warning signs.....	6
1.4	Commandment signs.....	7
1.5	Notes on the assembly instructions.....	7
1.6	Target group of these installation instructions.....	7
1.6.1	Personnel qualification.....	8
1.6.2	Qualification for individual activities.....	9
1.7	People with limited abilities.....	9
1.8	Basic safety regulations.....	10
1.8.1	Hazard-conscious working.....	10
1.8.2	Modifications to the E-BOX XL IO-LINK.....	11
1.9	Risks and dangers.....	11
1.9.1	Slipping or tripping.....	11
1.9.2	Electrostatic discharge.....	11
1.9.3	Electric shock.....	12
1.10	Behavior in an emergency.....	12
1.10.1	Fire.....	12
1.10.2	Earthquake.....	12
1.11	Protective and warning devices.....	13
<b>2</b>	<b>Description of the E-BOX XL IO-LINK</b> .....	<b>14</b>
2.1	General functional description.....	14
2.1.1	Interfaces to external systems.....	15
2.1.2	Nameplate.....	16
2.2	Scope of delivery.....	17
2.3	Technical data.....	17
<b>3</b>	<b>Transportation, storage, unpacking</b> .....	<b>18</b>
3.1	Transportation.....	18
3.2	Storage.....	18
3.3	Unpacking.....	18
<b>4</b>	<b>Preparation for operation</b> .....	<b>19</b>
4.1	Assembly.....	19
4.1.1	Assembly E-BOX XL IO-LINK.....	20
4.2	Installation.....	20
4.3	Testing before commissioning.....	20
<b>5</b>	<b>Commissioning and operation</b> .....	<b>21</b>
5.1	Commissioning.....	21
5.2	Operation.....	21
<b>6</b>	<b>Faults, messages and errors</b> .....	<b>22</b>
6.1	Procedure in the event of faults.....	22
6.2	Troubleshooting.....	22
<b>7</b>	<b>Maintenance and servicing</b> .....	<b>23</b>
7.1	Service and maintenance plan.....	23

---

- 7.2 Cleaning .....24
- 7.3 Repair and replacement of parts .....24
- 8 Decommissioning, disassembly, disposal.....25**
  - 8.1 Decommissioning .....25
  - 8.2 Uninstallation .....25
  - 8.3 Disassembly .....25
  - 8.4 Repacking and storage.....25
  - 8.5 Disposal and recycling.....26
- 9 Directories.....27**
  - 9.1 List of figures .....27
  - 9.2 List of tables .....27
  - 9.3 Index.....28
- 10 Appendix .....30**
  - 10.1 Pin assignment .....30
  - 10.2 EU/EG-Declaration of Conformity .....31

# 1 Safety

## 1.1 Intended use

The E-BOX XL IO-LINK is a standardized operating concept with three to six installation points. The E-BOX XL IO-LINK is intended exclusively for industrial use. Use in a private, domestic environment is not permitted or outside the CE conformity assessment.




## 1.2 Misuse

Any other or extended use of the E-BOX XL IO-LINK than described in chapter 1.1 "Intended use" is considered improper and is therefore inappropriate.

This applies in particular to the use of:

- in areas at risk of explosion or fire,
- in mining,
- in the open.

## 1.3 Warning signs

	General warning
	Electrical voltage
	Electrostatic discharge (ESD)

## 1.4 Commandment signs



Follow instructions



Pull out the mains plug

## 1.5 Notes on the assembly instructions

This manual is part of the product. It must be kept for its entire service life and, if necessary, passed on to subsequent owners or users of the product. The safety instructions and information required for end customers must be provided by the system supplier (RAFI GmbH & Co. KG) in the operating instructions and made available to end customers in the respective national language. To do this, please send an e-mail to [info.headquarters@rafi-group.com](mailto:info.headquarters@rafi-group.com).

## 1.6 Target group of these installation instructions



### **DANGER**

**Serious personal injury or death caused by untrained personnel handling the E-BOX XL IO-LINK.**

- ▶ The installation instructions must be observed by all persons who install, commission, maintain or operate the E-BOX IO-LINK.

### 1.6.1 Personnel qualification

These installation instructions are intended for technical staff with the following qualifications:

*Technical staff* Technical staff are able to carry out the work assigned to them and to recognize and avoid possible dangers independently. This is made possible by professional training, experience and knowledge, as well as knowledge of relevant regulations.

*Operating personnel* Personnel responsible for installing, operating, setting up, maintaining, cleaning, repairing or transporting systems, machines and devices.

*Trained / instructed personnel* Personnel who have been informed about the tasks assigned to them and the possible dangers of improper behavior and, if necessary, have been trained. Instructions were given on the necessary safety features and protective measures. Personnel to be trained, instructed or undergoing general training may only work under the constant supervision of experienced personnel.

*Electricians* Qualified electricians are trained for their specific tasks and are familiar with the relevant standards and regulations. They can carry out work on electrical systems and independently recognize and avoid potential hazards based on their training and experience.

## 1.6.2 Qualification for individual activities

Table 1-1: *Who-does-what matrix*

Activity	Who	Special qualification
Transportation	RAFI GmbH & Co. KG	Technical staff
Storage	Operator	Technical staff
Repackaging	Operator	Technical staff
Assembly	Operator	Technical staff
Installation	Operator	Qualified electricians
Commissioning	Operator	Technical staff
Set up	Operator	Technical staff
Operation	Operator	Trained / instructed
Troubleshooting and correction	RAFI GmbH & Co. KG	Qualified electricians
Cleaning	Operator	Trained / instructed
Maintenance, servicing	Operator	Qualified electricians
Decommissioning	Operator	Trained / instructed
Uninstallation	Operator	Qualified electricians
Disassembly	Operator	Technical staff
Recycling, waste disposal	Operator	Trained / instructed

## 1.7 People with limited abilities

Persons with reduced physical, sensory or mental capabilities or persons with a lack of experience or knowledge must **NOT** use the E-BOX XL IO-LINK.

Unless these restricted persons have been instructed in the safe and correct use of the E-BOX XL IO-LINK by another person who is responsible for their safety.

## 1.8 Basic safety regulations

Special safety regulations may apply to certain activities. Safety instructions and warnings can be found in the relevant sections of these installation instructions.

The operator must ensure that the safety instructions in this installation manual are observed. Before using the E-BOX XL IO-LINK, personnel must have read and understood these installation instructions, especially the safety-relevant information.

Only persons who can be expected to carry out their work reliably are permitted as personnel. Persons whose ability to react is affected, e.g. by drugs, alcohol or medication are **NOT** permitted.

In addition, the correct functioning of the entire system must be checked after installation and before each commissioning.

### 1.8.1 Hazard-conscious working

Carry out all work with or on the E-BOX XL IO-LINK carefully.

Only operate the E-BOX XL IO-LINK:

- as intended, in a hazard-conscious manner and in compliance with these installation instructions,
- if all safety devices are installed, functional and active,
- if the E-BOX XL IO-LINK is in perfect technical condition.

This also includes:

- Only carry out set-up and / or maintenance work when the machine or system connected to the E-BOX XL IO-LINK is switched off and secured against being switched on again.
- Clean the work area regularly to remove dirt and impurities.

## 1.8.2 Modifications to the E-BOX XL IO-LINK

Modifications to the E-BOX XL IO-LINK are strictly prohibited.

If modifications are necessary, please discuss them in advance with RAFI GmbH & Co. KG and obtain written confirmation of permission to do so. If modifications are carried out that have not been agreed, this will invalidate the warranty and CE conformity.

## 1.9 Risks and dangers

### 1.9.1 Slipping or tripping



**Slight injuries possible due to slippery surfaces or tripping hazards.**

- ▶ Lay all cables so that there are no tripping hazards (e.g. cable duct).
- ▶ Remove loose cables and objects from the floor of the work area.
- ▶ Always keep the work area clean and dry.

### 1.9.2 Electrostatic discharge



Material damage due to electrostatic discharge (ESD) possible.

- ▶ Work on the electrical cables and components may only be carried out by qualified electricians.
- ▶ Use dissipative underlays.
- ▶ Preferably use cotton work clothes.
- ▶ Avoid work clothing made from synthetic fiber materials.
- ▶ Keep the work area away from highly insulating materials, e.g. synthetic materials such as polystyrene or nylon.
- ▶ Also use electrostatic discharge protection measures when working on defective assemblies.

### 1.9.3 Electric shock



Danger to life from touching live components.

- ▶ Work on the electrical cables and components may only be carried out by qualified electricians.
- ▶ **NEVER** operate the E-BOX XL IO-LINK outside the approved operating values, see chapter 2.3 Technical data on page 17.
- ▶ Lay the cables in such a way that no mechanical stresses occur.
- ▶ Check the cables for damage at least once a month when they are de-energized.
- ▶ Danger to persons due to electric shock!
  - a) Protective extra-low voltage circuits must always be safely isolated from circuits with dangerous voltages.

## 1.10 Behavior in an emergency

Press the emergency stop key switch:

- If there is a risk of injury,
- If there is a risk of damage to the E-BOX XL IO-LINK and / or the machine / system.

In the event of an accident, take immediate action and call the local emergency number.

### 1.10.1 Fire

Only extinguish the E-BOX XL IO-LINK with a CO<sub>2</sub> fire extinguisher.

Provide suitable extinguishing agent near the E-BOX XL IO-LINK as a precautionary measure.

### 1.10.2 Earthquake

The E-BOX XL IO-LINK is firmly connected to a flat surface (e.g. an aluminum profile).

Check the anchoring to the mounting surface regularly, at least every 6 months.

## 1.11 Protective and warning devices

Before commissioning, the emergency stop must be properly functional and active.



**Serious injuries possible if the emergency stop is overridden.**

- ▶ The emergency stop must be fully functional before you put the machine or system back into operation.

## 2 Description of the E-BOX XL IO-LINK

### 2.1 General functional description

*Table 2-1: Identification features*

Product name / designation	E-BOX XL IO-LINK
Product number	1.24.3XX.XXX/XXXX 1.24.4XX.XXX/XXXX 1.24.5XX.XXX/XXXX 1.24.6XX.XXX/XXXX
Conformity with regulations and standards	2006/42/EG (for variant with emergency stop) 2014/30/EU DIN EN 63000-1 DIN EN 61000-6-2 DIN EN 61000-6-3

The E-BOX XL IO-LINK is an operator-programmable control unit for a wide range of machines and systems. Operators can use the E-BOX XL IO-LINK to switch on, control and safely switch off machines and systems.

### 2.1.1 Interfaces to external systems

Table 2-2: Interfaces to external systems

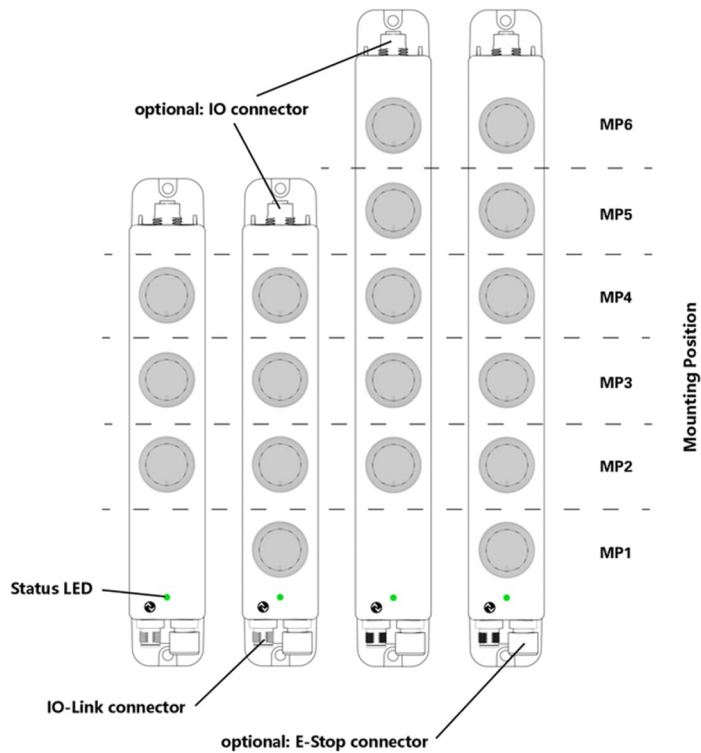


Figure 1: Interfaces to external systems

Figure 2: Interfaces to external systems

<b>IO-Link Connection</b>	Customer interface Connection to IO-Link master (COM 2) Parameter data Diagnostic data
<b>IO-Connection</b> (optional)	Customer interface Integration of RAFI products or various other sensors and actuators
<b>Emergency stop connection</b> (optional)	Customer interface Connection to PLC/safety controller

For pin assignment of the individual interfaces, see chapter 10.1 "Pin assignment on page 30.

### 2.1.2 Nameplate

The following figure shows an example of the type plate of the E-BOX XL IO-LINK.

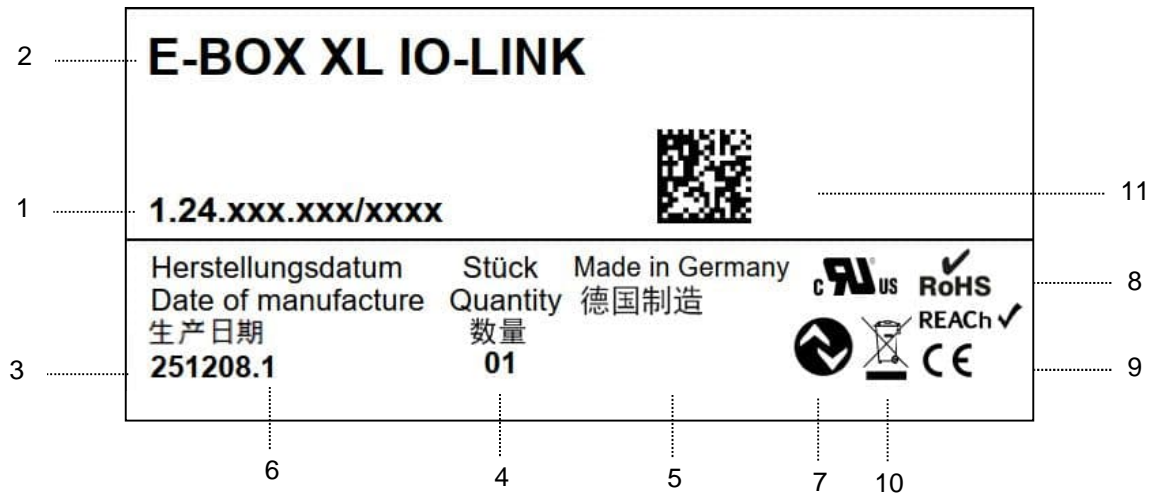


Figure 19: Labeling

Pos.	Designation
1	Article number
2	Product name
3	Date of manufacture
4	Quantity
5	Place of manufacture
6	Work shift in which the product was packaged
7	Input/ Output Markings
8	UL Markings
9	CE-Markings
10	Warning symbol (dispose of electrical waste separately)
11	
12	
13	

## 2.2 Scope of delivery

The scope of delivery includes the following components:

<b>Pos.</b>	<b>Designation</b>
1	E-BOX XL IO-LINK

## 2.3 Technical data



You can call up the technical data using the article no. in the search function of our eCatalog.

Scan the following QR code or visit our eCatalog at the following link:

<https://ecatalog.rafi-group.com>

## 3 Transportation, storage, unpacking

### 3.1 Transportation

The E-BOX XL IO-LINK is delivered in packaging specially designed for the product.

Check whether the E-BOX XL IO-LINK components are damaged immediately after delivery. Report any transport damage immediately to the delivery service/forwarding agent and to RAFI GmbH & Co. KG.

*Table 3-1: Transport dimensions 3 and 4 actuators*

Length	[mm]	270
Height	[mm]	42
Width	[mm]	68,5

*Table 3-2: Transport dimensions 5 and 6 actuators*

Length	[mm]	355
Height	[mm]	42
Width	[mm]	68,5

Always use the original packaging when transporting the E-BOX XL IO-LINK.

The ambient conditions must also be observed when transporting the E-BOX XL IO-LINK.

Observe the temperature and humidity specifications, see chapter 2.3 Technical data on page 17.

### 3.2 Storage

Store the E-BOX XL IO-LINK in a covered and dry room in its original packaging. Observe the information on Storage temperature and humidity, see chapter 2.3 Technical data on page 17.

### 3.3 Unpacking



**TIP**

- ▶ *Keep the original packaging if you need to repack the E-BOX XL IO-LINK or want to store it for a longer period of time.*

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The packaging material consists of cardboard.

## 4 Preparation for operation



### **WARNING**

**Electric shock possible if the power supply is switched on prematurely.**

- ▶ Do not switch on the E-BOX XL IO-LINK until the E-BOX XL IO-LINK is fully assembled and installed.
- ▶ This is usually done during commissioning E-BOX XL IO-LINK.

### 4.1 Assembly

#### **Preconditions:**

- Material:
  - 2x mounting screws (not included in the scope of delivery)
  - 1x E-BOX XL IO-LINK
  - Cable for IO-Link connection (not included in the scope of delivery)
  - Cable for IO connection (optional; not included in the scope of delivery)
  - Cable for emergency stop connection (not included in the scope of delivery; only required for variants with emergency stop)

### 4.1.1 Assembly E-BOX XL IO-LINK

Install the E-BOX XL IO-LINK as follows:

1. A flat mounting surface must be used for installation.
  2. The device must be fixed to the mounting surface using two mounting screws with a maximum diameter of 5.3mm and a maximum head diameter of 9.5mm. A tightening torque of 2 Nm is recommended for the mounting screws.
- ✓ You have installed the E-BOX XL IO-LINK.

## 4.2 Installation

Install the E-BOX XL IO-LINK as follows:

1. Connect the cables for the input/output signals, the IO link and the emergency stop. The tightening torque of the M12 plugs or M12 bushing can be found in the documentation of the respective cable manufacturer.
  2. Use according to UL:  
Type 4x indoor only with cables as listed in E-File E325311 as "Cat. Nos. 7xxx-yyyyy-zzz(+)" where 'xxx' is any 3 digits number, 'yyyyy' is a five digit combination, 'zzz' is followed by any combination of 3 numbers and/or letters, (+) followed by 4 digits number representing cable length.  
Only approved for Class 2 power sources or limited voltage/current. For connecting the device use UL certificated cables of category CYJV or PVVA.
- ✓ You have installed the E-BOX XL IO-LINK.

## 4.3 Testing before commissioning

Check the assembly and installation of the E-BOX XL IO-LINK before commissioning as follows:

1. Check that all fixings are tightened.
  2. Check that all plugs are correctly attached.
- ✓ You have checked the assembly and installation of the E-BOX XL IO-LINK before commissioning.

## **5 Commissioning and operation**

### **5.1 Commissioning**

The operator independently creates programs that use the operating options of the E-BOX XL IO-LINK to control the machine or system.

Commissioning is therefore always carried out by the operator's trained technical staff. The operator shall provide separate operating instructions for commissioning.

### **5.2 Operation**

The E-BOX XL IO-LINK is always operated by trained technical staff or appropriately trained personnel. The operator shall provide separate operating instructions for the operation of the.

## 6 Faults, messages and errors

### 6.1 Procedure in the event of faults

Always rectify faults as follows:

1. Notify the responsible maintenance personnel, if available.
  2. Ensure that there is no danger to persons or objects. If danger is imminent, use the emergency stop function (if available).
  3. Determine the cause of the fault.
  4. If necessary, please contact RAFI GmbH & Co. KG if you cannot solve the problem yourself.
  5. De-energize the E-BOX XL IO-LINK.
  6. If necessary, use the diagnostic sheet (see eCatalog) of the E-BOX XL IO-LINK to check whether you can rectify the fault yourself or whether you need to commission authorized technical staff to do so.
  7. If the fault was not caused by the E-BOX XL IO-LINK, observe the operator's specifications and the documents for linked machines and system parts.
- ✓ You have rectified the fault.

### 6.2 Troubleshooting

If you cannot find the error yourself, please contact RAFI GmbH & Co. KG, see contact information on page 2.

## 7 Maintenance and servicing

Prepare the maintenance and servicing as follows:



1. **DANGER TO LIFE FROM ELECTRIC CURRENT!**  
De-energize the E-BOX XL IO-LINK and linked system components.
  2. Check that the E-BOX XL IO-LINK and linked system components are de-energized.
  3. Secure the E-BOX XL IO-LINK or the linked system parts against being switched on again according to the options.
- ✓ You have prepared the maintenance and servicing.

### 7.1 Service and maintenance plan

Table 7-1: Service and maintenance plan

Interval	Component	Aktivitiy / check	Measures if not feasible / in case of negative result
Daily check	Labeling and / or Engravings on the components	Visual inspection	Cleaning
Weekly	Surfaces of the E-BOX XL IO-LINK	Cleaning	
Monthly	Emergency stop	Functional testing	Contact RAFI GmbH&Co KG
Annually	Screw fixings	Visual inspection	Tighten screw fixings
Every 2 years	Cabling	Visual inspection for damage to the cable sheath (cracks, open areas, etc.)	Renew cabling

## 7.2 Cleaning



### CAUTION

**Slight injuries and material damage possible due to unsuitable cleaning agents.**

- ▶ **NEVER** use aggressive cleaning fluids.
- ▶ **NEVER** spray cleaning liquids directly onto the surfaces of the E-BOX XL IO-LINK.

---

Clean the E-BOX XL IO-LINK as follows:

1. Moisten a clean, soft cloth with cleaning fluids so that it is slightly damp.
  2. Clean the surfaces of the E-BOX XL IO-LINK with this damp cloth.
- ✓ You have cleaned the E-BOX XL IO-LINK.

## 7.3 Repair and replacement of parts

If one of the components of the E-BOX XL IO-LINK has been damaged, contact RAFI GmbH & Co. KG, see contact information on page 2.

## 8 Decommissioning, disassembly, disposal

### 8.1 Decommissioning

Decommissioning is always carried out by the operator's trained technical staff. The operator shall provide separate operating instructions for decommissioning.

### 8.2 Uninstallation



#### **WARNING**

**Electric shock possible due to connected power supply.**

- ▶ Do not begin disassembly and uninstallation until the power supply to the E-BOX XL IO-LINK has been disconnected.
- ▶ This is usually done when decommissioning the E-BOX XL IO-LINK

#### **Preconditions:**

- The E-BOX XL IO-LINK is switched off.
- The E-BOX XL IO-LINK is taken out of operation.

Uninstall the E-BOX XL IO-LINK as follows:

1. Disconnect the E-BOX XL IO-LINK cables from the plugs provided.
2. You have uninstalled the E-BOX XL IO-LINK.

### 8.3 Disassembly

#### **Preconditions:**

- The E-BOX XL IO-LINK is uninstalled.

Dismantle the E-BOX XL IO-LINK as follows:

1. Hold the E-BOX XL IO-LINK in place.
  2. Loosen the two mounting screws.
- ✓ You have dismantled the E-BOX XL IO-LINK.

### 8.4 Repacking and storage

Use the original packaging to store the E-BOX XL IO-LINK.

Store the E-BOX XL IO-LINK within the permitted conditions, see chapter on page 2.3 Technical data on page 17.

## 8.5 Disposal and recycling

### ATTENTION



Ensure safe and proper disposal, especially of parts or substances that are harmful to the environment.

Disposal of the E-BOX XL IO-LINK, including production equipment and any cleaning fluids, is governed by local disposal regulations and environmental laws.

Commission an approved specialist company to dispose of the product in order to avoid environmental hazards. The local municipal authority can provide you with information on this.

Properly dispose of materials that can be recycled with consideration for our environment.

The packaging material consists of cardboard. Separate the packaging material according to materials and recycle it in an environmentally friendly manner.

# 9 Directories

## 9.1 List of figures

Figure 1: Interfaces to external systems ..... 15  
Figure 2: Labeling ..... 16  
Figure 3: Pin assignment ..... 30  
Figure 4: Declaration of Conformity ..... 31

## 9.2 List of tables

Table 1-1: Who-does-what matrix..... 9  
Table 2-1: Identification features ..... 14  
Table 2-2: Interfaces to external systems..... 15  
Table 3-1: Transport dimensions 3 and 4 actuators ..... 18  
Table 3-2: Transport dimensions 5 and 6 actuators ..... 18

## 9.3 Index

<b>A</b>		<b>L</b>	
Accidents .....	12	List of figures .....	27
Assembly .....	19	List of tables.....	27
<b>C</b>		<b>M</b>	
CE-Declaration .....	31	Maintenance .....	23
Cleaning.....	24	Maintenance and servicing .....	23
Commandment signs .....	7	Manufacturer.....	2
Connect .....	20	Misuse .....	6
<b>D</b>		Modifications.....	11
Declaration of Conformity	31	<b>N</b>	
Decommissioning .....	25	Nameplate .....	16
Disassembly .....	25	<b>O</b>	
Display typedes .....	2	Operating personell.....	8
Disposal .....	26	Operation .....	21
<b>E</b>		<b>P</b>	
E-BOX XL IO-LINK .....	17	Precaution Earthquake ...	12
Electricans .....	8	Precaution Fire .....	12
Emergency.....	12	<b>R</b>	
Erathquake .....	12	RAFI GmbH & Co. KG .....	2
Explanations of the display types.....	2	Recycling .....	26
<b>F</b>		Repacking.....	25
Faults .....	22	Repair .....	24
Fire.....	12	Replacement of parts.....	24
Functional description .....	14	Risks .....	11
Functional testing.....	20	<b>S</b>	
<b>H</b>		Safety.....	<i>see hazards</i>
Hazard classes .....	2	Storage .....	18, 25
Hazards .....	6	<b>T</b>	
Electric shock .....	12	Target group .....	7
Electrostatic discharge .	11	Technical data .....	17
Protective and warning devices .....	13	Technical staff.....	8
<b>I</b>		Testing .....	20
Identification features.....	14	Trained personnel.....	8
Installation.....	20	Transportation.....	18
Instructed personnel .....	8	Troubleshooting .....	22
Interfaces.....	15		

**U**

Uninstallation .....25

**W**

Warning signs ..... 6

Who-does-what matrix ..... 9

# 10 Appendix

## 10.1 Pin assignment

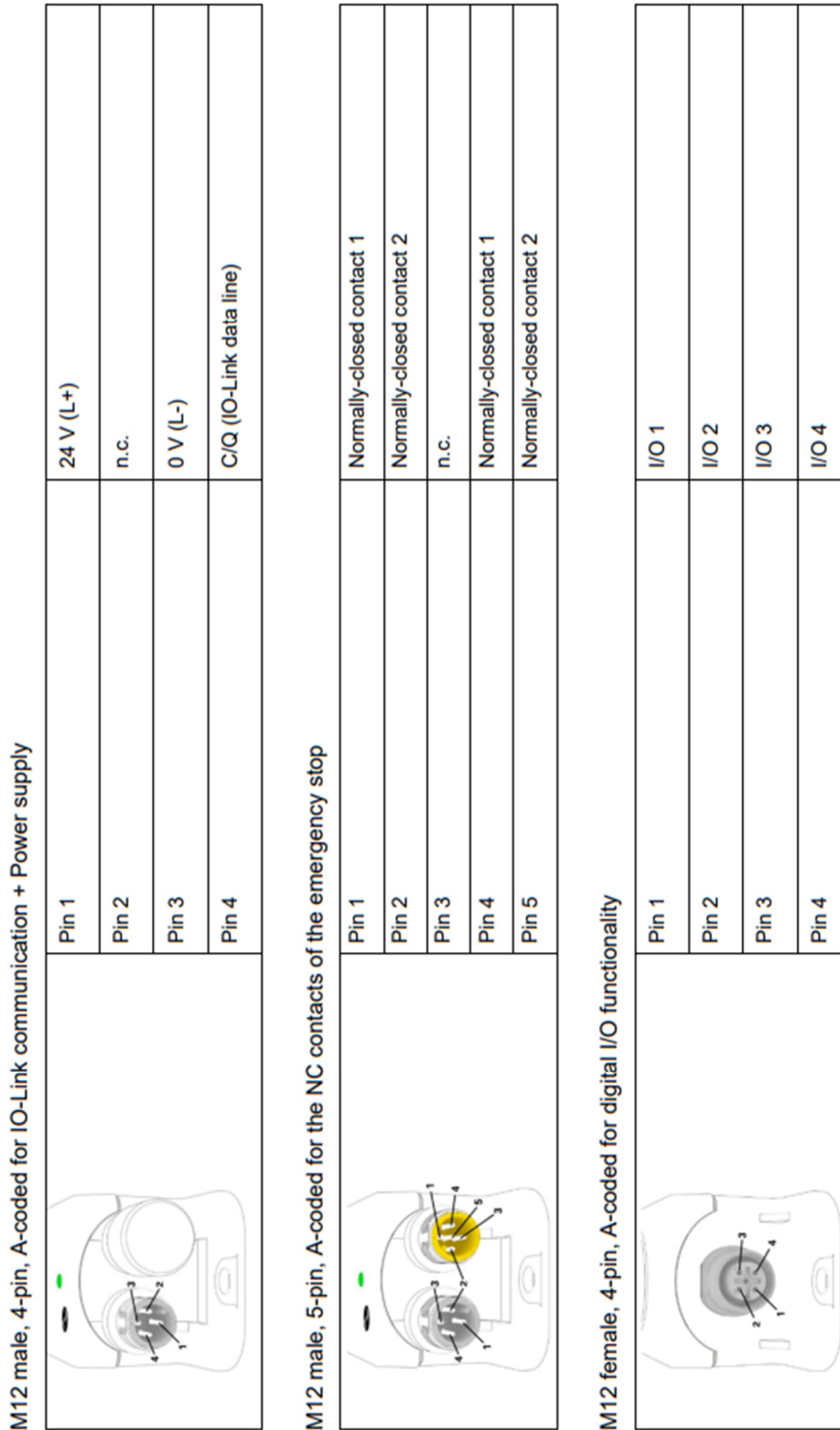


Figure 51: Pin assignment

## 10.2 EU/EG-Declaration of Conformity

EU Konformitätserklärung (Original)  
EU Declaration of Conformity (Translation)

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1. Die alleinige Verantwortung für die Ausstellung der Konformitätserklärung in Bezug auf die Erfüllung der grundlegenden Anforderungen und die Anfertigung der technischen Unterlagen trägt: <i>The sole responsibility for issuing the declaration of conformity regarding conformity with the fundamental requirements and the creation of the technical documents lies with:</i>			
Hersteller: <i>Manufacturer:</i>		RAFI GmbH & Co. KG	
Bevollmächtigter für die Zusammenstellung der technischen Unterlagen: <i>Representative for the compilation of the technical documents:</i>		Karsten Hoffmann	
Anschrift: <i>Address:</i>		Ravensburger Strasse 128-134; 88276 Berg	
2. Gegenstand der vorliegenden Erklärung ist folgendes Gerät: <i>This declaration applies to the following device:</i>			
Bezeichnung und Funktion: <i>Designation and Function:</i>		E-BOX XL IO-LINK  1.24.3x0.xxx/xxxx; 9.24.3x0.xxx/xxxx 1.24.4x0.xxx/xxxx; 9.24.4x0.xxx/xxxx 1.24.5x0.xxx/xxxx; 9.24.5x0.xxx/xxxx 1.24.6x0.xxx/xxxx; 9.24.6x0.xxx/xxxx	
3. Für das genannte Gerät wird hiermit erklärt, dass es den grundlegenden Anforderungen entspricht, die in den nachfolgend bezeichneten Harmonisierungsvorschriften festgelegt sind: <i>Regarding the aforementioned device, we hereby declare that it complies with the fundamental requirements specified in the harmonization standards stated below:</i>			
DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)			
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)			
4. Angabe der einschlägigen harmonisierten Normen, die zugrunde gelegt wurden, oder Angabe der Spezifikationen, für die die Konformität erklärt wird: <i>Designation of the relevant harmonized standards referred to by this declaration or of the specifications for which conformity is declared:</i>			
Norm <i>Standard</i>	Ausgabedatum <i>Issue Date</i>	Titel <i>Title</i>	Harmonisierte Norm für die <i>Harmonized standard for</i>
DIN EN IEC 63000	2019-05	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	DIRECTIVE 2011/65/EU
EN IEC 61000-6-3	2021-03	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential	DIRECTIVE 2014/30/EU
EN IEC 61000-6-2	2019-11	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	DIRECTIVE 2014/30/EU
5. Zusatzangaben: <i>Additional details:</i>			

Berg / 01.10.2025

Ort / Datum  
*Place/Date*

Rechtsgültige Unterschrift: Dr. Lothar Seybold; Geschäftsführer  
*Legally valid signature: Dr. Lothar Seybold; President & CEO*

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Harmonisierungsvorschriften, beinhaltet jedoch keine Zusicherung von Eigenschaften.

*This declaration certifies conformity with the aforementioned harmonization regulations, however it does not provide any assurance of characteristics.*

Datei / File: RAFI EU Konformitätserklärung E-BOX XL IO-LINK.docx

Seite 1 von 1  
Page 1 of 1

Figure 52: Declaration of Conformity

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