

ETAL100.0200-1

User's manual

Version: **1.00 (December 2020)**
Order no.: **User's manual**

Translation of the original documentation

B&R reserves the right to make changes to the content without prior notice. B&R assumes no liability for typographical errors or for any other information in this document as far as legally possible. Liability claims against B&R regarding the content of delivery and documentation of third-party components used in the product are excluded in any case. The user is responsible for compliance with all relevant and professionally pertinent safety measures as well as the intended use. B&R points out that the software and hardware designations and brand names of the respective companies are subject to the legal protection regulations of intellectual property law.

Chapter 1 Introduction.....	3
1 Manual history.....	3
2 Organization of notices.....	3
Chapter 2 Intended use.....	4
Chapter 3 Safety notices.....	5
1 Safety notices.....	5
2 Usage.....	5
3 Responsibilities of the operator.....	5
Chapter 4 System characteristics.....	6
1 General information.....	6
2 Order data.....	6
Chapter 5 Technical data.....	7
Chapter 6 Dimensions.....	8
Chapter 7 Mechanical handling.....	9
1 Installing the X20 system on the top-hat rail.....	9
2 Number of mating cycles.....	9
Chapter 8 Environmentally friendly disposal.....	10
1 Separation of materials.....	10

Chapter 1 • Introduction

1 Manual history

Version	Date	Change
0.10	May 2019	First internal version

1.1 INFOBOX: Current user's manual

Information:

B&R makes every effort to keep documents as current possible. The most current versions can be downloaded from the B&R website (www.br-automation.com).

2 Organization of notices

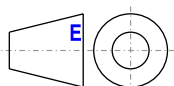
Safety guidelines

Contain **only** information that warns of dangerous functions or situations.

Signal word	Description
Danger!	Failure to observe these safety guidelines and notices will result in death, severe injury or substantial damage to property.
Warning!	Failure to observe these safety guidelines and notices can result in death, severe injury or substantial damage to property.
Caution!	Failure to observe these safety guidelines and notices can result in minor injury or damage to property.
Notice!	Failure to observe these safety guidelines and notices can result in damage to property.

Contain **useful** information for users and instructions for avoiding malfunctions.

Signal word	Description
Information:	Useful information, application tips and instructions for avoiding malfunctions.



European dimension standards apply to all dimension diagrams.

All dimensions in millimeters.

Unless otherwise specified, the following general tolerances apply:

Nominal dimension range	General tolerance per DIN ISO 2768 medium
Up to 6 mm	±0.1 mm
Over 6 to 30 mm	±0.2 mm
Over 30 to 120 mm	±0.3 mm
Over 120 to 400 mm	±0.5 mm
Over 400 to 1000 mm	±0.8 mm

Chapter 2 • Intended use

These products are developed and produced exclusively for training and development in the area of automation. Any use beyond this is not permitted, in particular the integration of these products or parts thereof in machines, systems or other devices and processes. B&R does not assume liability for damages of any kind that occur when using the products outside of training and development or for harm that results from modifying the products. Expansions using products from the ETA system or ETA light system series are permitted.

In addition, the products are only permitted to be used in closed rooms (such as laboratories, offices and classrooms) that do not require separate protective equipment. Trainers shall inform the trainees of the relevant safety guidelines and precautions before using the product.

Chapter 3 • Safety notices

1 Safety notices

Warning!

Observe safety notices

Disregarding safety notices can result in serious damage to property and personal injury.

The safety notices on the product and in the documentation must be observed.

Products that cannot be ensured as safe due to damage, for example, are not permitted to be started up under any circumstance. Disturbances that impair general safety must be eliminated immediately.

2 Usage

This product is designed and manufactured for training and development. General safety guidelines must be observed at all times.

Caution!

Risk of injury

Disregarding safety notices can result in serious damage to property and personal injury.

The data sheets of components and the safety notices contained therein must be observed.

For a list of the components used, see the technical data of this product.

3 Responsibilities of the operator

The operator is the person who operates the product or who provides it for use/application by a 3rd party while carrying legal product responsibility for the protection of the user, personnel or other 3rd parties.

- The operator is obliged to know and implement the applicable industrial safety regulations.
- The operator is obliged to know and implement national, local and plant-specific regulations.
- The operator is obliged to clearly define and manage responsibilities for installation, operation, fault correction, maintenance and cleaning.
- The operator is obliged to ensure that responsible personnel have read and understood this user's manual.

Chapter 4 • System characteristics

1 General information

Various devices with top-hat rail mounting per DIN EN 50022 can be installed on this module rack to expand your ETA light system according to your requirements.

ETAL100.0200-1 - Module rack with top-hat rail

- 220 mm long top-hat rail per EN 50022
- Installing various top-hat rail devices

2 Order data


Model number	Short description	Figure
ETAL100.0200-1	ETA light system module rack with top-hat rail, orange plastic plate, DIN 35 mm top-hat rail with 22 cm length	

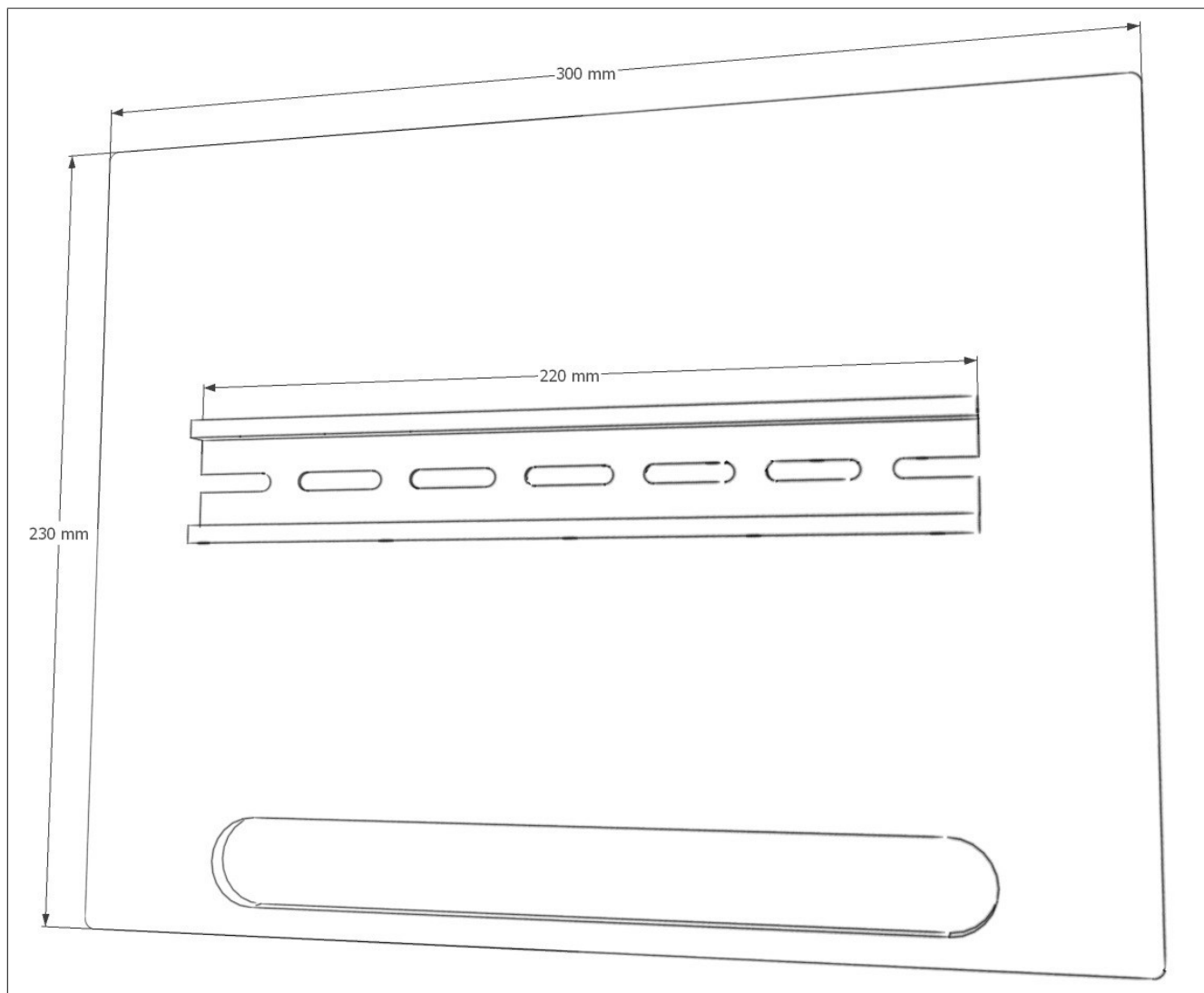
Table 1: ETAL100.0200-1 - Order data

Chapter 5 • Technical data

Model number	ETAL100.0200-1
Mechanical properties	
Dimensions	
Width	300 mm
Height	230 mm
Depth	6 mm

Table 2: ETAL100.0200-1 - Technical data

Chapter 6 • Dimensions



Information:

Check whether the installation dimensions of the desired product fit. For additional information, see the data sheet of the product used.

Chapter 7 • Mechanical handling

1 Installing the X20 system on the top-hat rail

Complete the following steps to install an assembled X20 system on the top-hat rail.

1. Push the locking lever all the way up on all of the bus modules. This opens the locking mechanism for top-hat rail installation.



2. Hang the X20 system in the desired position on the top-hat rail and close the locking mechanism by pushing the lever down.

2 Number of mating cycles

The modules of the X20 system are divided into three parts. A module is made up of 3 basic elements:

- Bus module
- Electronic module
- Terminal block

The number of mating cycles between the respective basic elements is specified at 50.

Basic element	Number of mating cycles
Bus module ↔ Bus module	50
Bus module ↔ Electronic module	
Electronic module ↔ Terminal block	

Table 3: Number of mating cycles between the respective basic elements

Chapter 8 • Environmentally friendly disposal

All programmable logic controllers, operating and monitoring devices and uninterruptible power supplies from B&R are designed to have as little impact on the environment as possible.

1 Separation of materials

To ensure that devices can be recycled in an environmentally friendly manner, it is necessary to separate out the different materials.

Component	Disposal
Programmable logic controllers Operating and monitoring devices Uninterruptible power supplies Batteries and rechargeable batteries Cables	Electronics recycling
Paper/Cardboard packaging	Paper/Cardboard recycling
Plastic packaging material	Plastic recycling

Disposal must be carried out in accordance with applicable legal regulations.

Publishing information

B&R Industrial Automation GmbH

B&R Strasse 1

5142 Eggelsberg

Austria

Telephone: +43 7748 6586-0

Fax: +43 7748 6586-26

office@br-automation.com