AccessOne

Online reader

PHG VOXIO Reader

Assembly and operating manual

English

Version VA1

BRO 2325

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BRO 2325 VA1

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Inhalt

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1 About this manual

This manual provides information on the assembly and setup of a reader unit in the AccessOne access control system.

Applicable documents

Configuration	BRO2316_Manual_AccessOne

This manual should be treated as a part of the product and must be kept for the entire service life of the product. The manual should be passed on to any subsequent user or owner of the product.

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📄 Always use the most up-to-date version of this manual. You can obtain updated versions free of charge from **www.ces.eu**.

Notes on trademark protection
MIFARE, MIFARE Classic and MIFARE DESFire are registered trademarks of NXP B.V. and are used under licence.

1.1 Manufacturer and service

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1.2 Target groups of this manual

If a section of this manual is intended for a particular target group, this is stated at the start of the section. Sections that do not specify a particular group are relevant for all target groups.

Target group	Skills
CEStronics partners	are trained experts in locking and security technology that have also worked with CES for many years and have a special level of product knowledge. Particular characteristics of the target group: • Detailed knowledge of CES products • Participate regularly in product training
Locking and security technology specialists	have many years of professional experience and/or relevant training in locking and security technology. For some tasks it may be necessary for specialists to have received training on the product beforehand. Particular characteristics of the target group: • Knowledge of specialist terminology from the field of locks and handles • Knowledge of specific risks when mounting electronic cylinders and handle sets, for example • Experience of working with tools (relevant to lock systems) • Knowledge of relevant standards and regulations, e.g. for fire safety or emergency and escape routes • Basic understanding of electronic locking systems
Electricians	have many years of professional experience and/or relevant training in electronics. For some tasks it may be necessary for specialists to have received training on the product beforehand. Particular characteristics of the target group: • Knowledge of specialist electrical terminology and its symbols • Knowledge of the risks associated with handling sensitive electronic components
Personnel with product training	have received training on the product by CES or a CEStronics partner. Here the personnel are given detailed and specific information to prepare them for the required task. Particular characteristics of the target group: • Knowledge of CEStronics products and experience in handling them (assembly, operation, etc.)
IT/administration specialists	have many years of professional experience in the fields of IT structures, administration and networks. Particular characteristics of the target group: • Knowledge of specialist IT terminology • Knowledge of the structure and maintenance of networks, particularly knowledge of the network that they maintain
System operators	have experience in the management of master key systems. This can be either a number of systems or a detailed knowledge of a single master key system. Particular characteristics of the target group: • Knowledge of the specialist terminology related to master key systems • Skilled in the use of PCs and software
End users	do not require specific skills.

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2 For your safety

2.1 EU Declaration of Conformity

The EU Declaration of Conformity can be found online at **www.ces.eu**.

2.2 Intended use

The reader is used as an access terminal in an AccessOne access control system.

The product is intended solely for and may only be used for this purpose. Any other use is deemed to be improper use and could result in property damage or even personal injury.

The product may not be modified in any way without the written consent of C.Ed. Schulte GmbH Zylinderschlossfabrik.

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2.3 Basic safety instructions

This device has been built using state-of-the-art technology and recognised safety rules. Nevertheless, its use may result in hazards for the user or third parties, or also have negative impacts on the device and other material assets.

Use the product only while it is in proper working order and only for its intended purpose, taking due account of safety and potential hazards, and in accordance with the operating manual. In particular, faults that affect the safety must be remedied immediately.

2.3.1 Danger to life

Particular dangers for children

Children playing with packaging films or plastic bags are at risk of suffocation. If children swallow small parts such as screws, they are at risk of suffocation or poisoning.

✔ Do not allow children to play with the device or its packaging.

✔ Keep the device and its packaging out of reach of children.

2.3.2 Risk of injury

Explosion hazard

Parts of the device that carry electric currents can produce electrical sparks even at low voltages (e.g. when electric circuits are switched on or off) and can thus act as sources of ignition. In areas with a risk of explosions, this can cause an explosion and individuals could be injured.

✔ Do not use the device in potentially explosive areas.

2.3.3 Danger of material damage

Hard shocks

Hard shocks can damage mechanical and electronic components of the device. Under some circumstances, damaged devices do not function correctly or do not function at all.

✔ Do not allow the device to fall onto the ground, onto hard surfaces or hard objects.

Electrostatic discharges

The electronic components are highly sensitive and can be damaged by electrostatic discharges or excessive voltage. In some circumstances, damaged devices do not function correctly or do not function at all.

✔ Do not assemble the device in areas affected by electrostatic charges.

✔ Do not touch any electronic components.

Liquids

Water and other liquids can damage the electronic components of the device. Under some circumstances, damaged devices do not function correctly or do not function at all.

✔ Protect the electronic components from water and other liquids.

Climatic influences

Climatic influences such as heat, cold and moisture can damage the device. Under some circumstances, damaged devices do not function correctly or do not function at all.

✔ Do not use the device in a corrosive atmosphere (chlorine, ammonia or lime water).

✔ Do not use the device in areas with high levels of dust.

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✓ Do not use the device in the vicinity of heat sources.

Incorrect maintenance or repair

Incorrect or neglected maintenance and repair can result in the device not functioning correctly or not functioning at all.

✓ Lassen Sie das Gerät halbjährlich ausschließlich durch CES oder Fachpartner warten und auf fehlerfreie Funktion prüfen.

✓ Always have repairs performed by qualified personnel.

✓ Use only accessories and spare parts recommended by CES.

✓ Before working on or in the device, ensure that it is isolated from the power supply.

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3   About the reader

Readers perform key tasks in the AccessOne access control system: They capture identity and attendance times. Information on the locking medium is updated during the reading operation.

As an access terminal, the reader offers the option of operation with or without ID medium. In this case, the ID number is entered using the capacitive touch keypad. Allocation of an additional PIN code enables 2-factor authentication, which affords enhanced user identification.
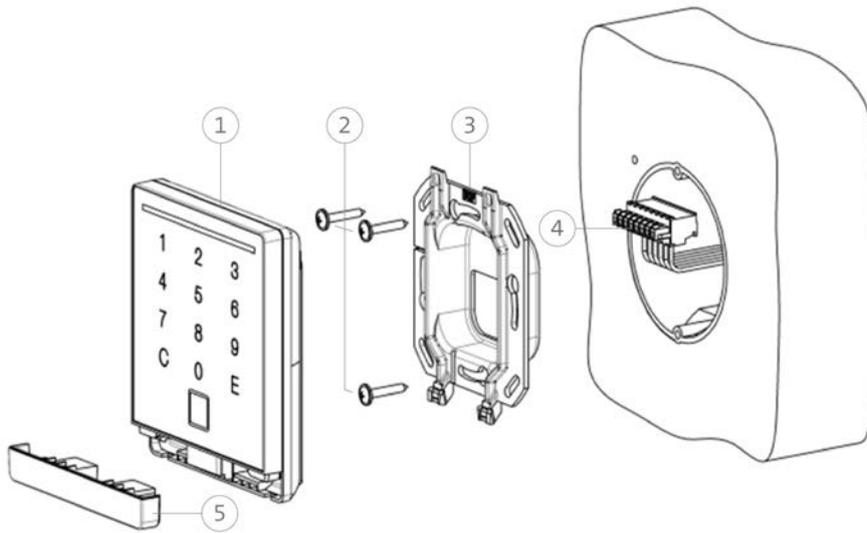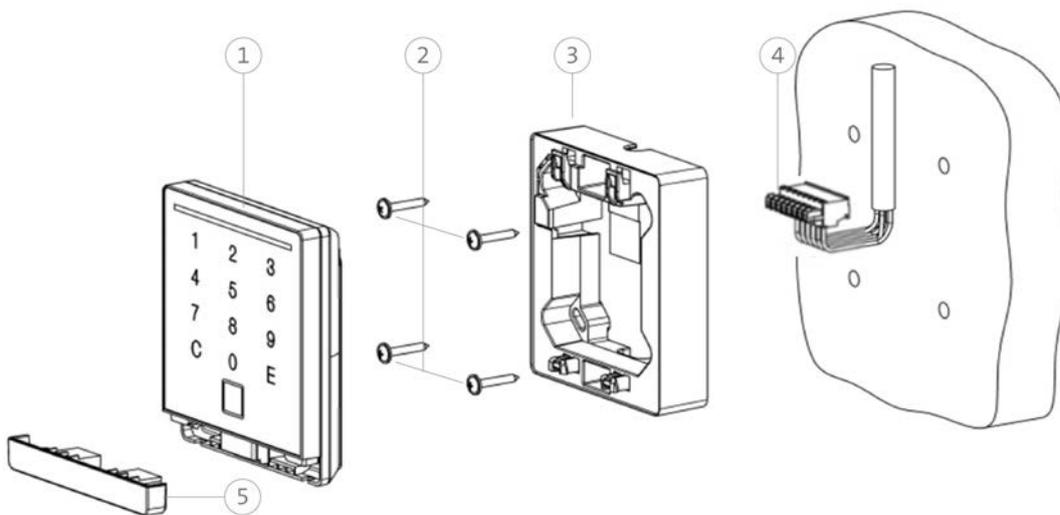
3.1   Control elements
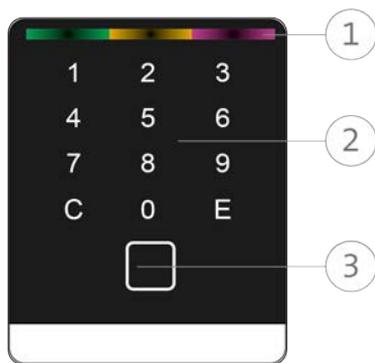
1	LCD display
2	Capacitive touch keypad
3	Detection field

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3.2 Scope of delivery and designations of parts

Flush-mounted variant

Surface-mounted variant

1	Reader
2	Fixing screws
3	Wall mount
4	Connection terminal
5	Locking bar

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4 Terminal wiring specification

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- Elektro-Fachkräfte
- produktgeschulte Elektro-Fachkräfte
- Fachkräfte IT/Administration

⚠️ **Risk of damage** Perform all work on and in the device with the power supply disconnected.
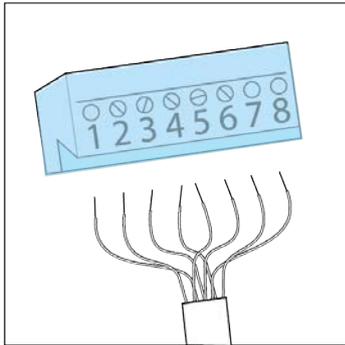
Terminal number	Designation
1	RS485 data 'A'
2	RS485 data 'B'
3	Output 1
4	Output 2
5	Input 1
6	Input 2
7	GND
8	+Ub (8 to 30 V DC)

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5 Assembly

**Zielgruppe dieses Kapitels:**

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- produktgeschulte Elektro-Fachkräfte
- Fachkräfte IT/Administration

The reader is available in either a surface-mounted or a flush-mounted variant. The assembly varies between the two types.
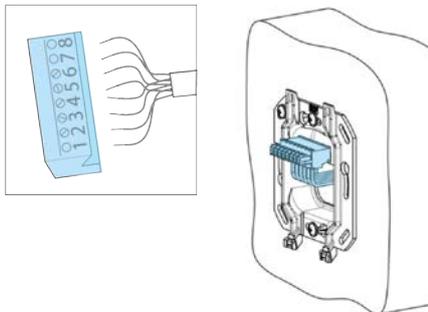
⚠ **Risk of damage** Perform all work on and in the device with the power supply disconnected.

5.1 Assembling the reader

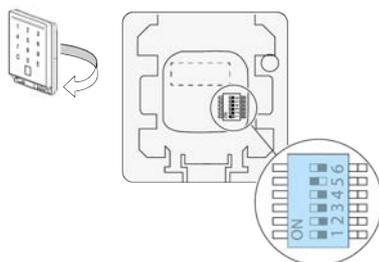### 5.1.1 Assembling the flush-mounted variant
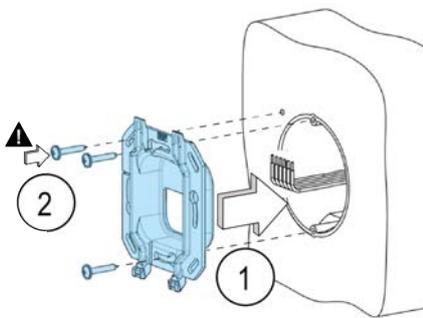
1. Screw the wall mount onto the DIN wall box or the wall itself.

2. Secure the tear-off tab for tamper detection with a screw.
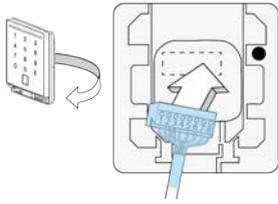

⚠ **Risk of damage** Perform all work on and in the device with the power supply disconnected.

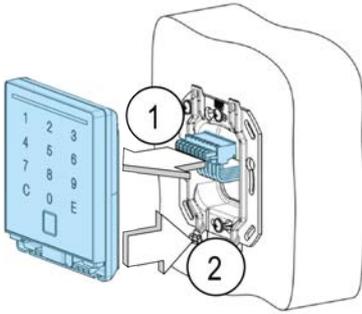3. Wire the connecting terminal in accordance with the connection diagram.

4. Set DIP switch 5 to ON.

5. Use DIP switches 1-4 to set the reader addresses for the connected units.

DIP	Function
1 – 4	Setting the reader address
5	Baud rate (always ON)
6	Bus terminating resistor for RS485

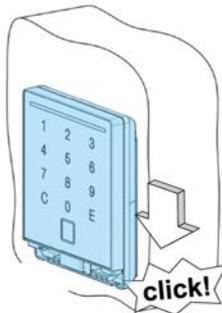Subject to change without notice. BRO 2325 VA1

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6. Insert the connecting terminal into the reader.

7. Place the reader on the wall mount.

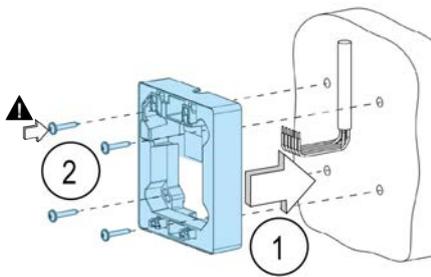8. Slide the reader downwards until it audibly clicks into place.

9. Slide the locking bar upwards until it audibly clicks into place.

The reader is now installed.

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## 5.1.2 Assembling the surface-mounted variant

ℹ️ The connecting cable is fed in either from above, from below or directly from the wall. Pull out the relevant cable point.

1. Screw the surface-mounted frame onto the wall.

2. Secure the tear-off tab for tamper detection with a screw.
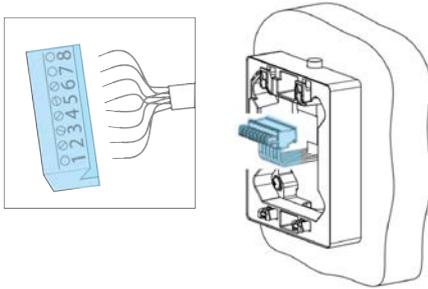
⚠️ **Risk of damage** Perform all work on and in the device with the power supply disconnected.

3. Wire the connecting terminal in accordance with the connection diagram.
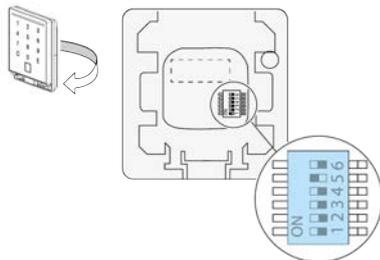
4. Set DIP switch 5 to ON.

5. Use DIP switches 1-4 to set the reader addresses for the connected units.

DIP	Function
1 – 4	Setting the reader address
5	Baud rate (always ON)
6	Bus terminating resistor for RS485

6. Insert the connecting terminal into the reader.

7. Place the reader on the wall mount.

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8. Slide the reader downwards until it audibly clicks into place.

click!

9. Slide the locking bar upwards until it audibly clicks into place.

click!

The reader is now installed.

5.2 Removing the reader

⚠️ **Risk of damage** Perform all work on and in the device with the power supply disconnected.
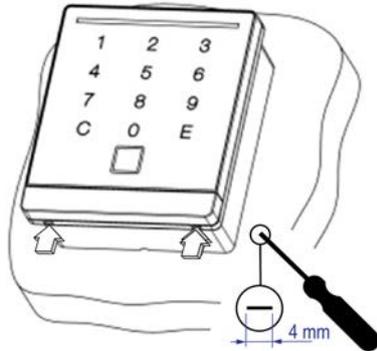
1. Disengage the locking bar. To do this, insert a screwdriver into the release openings and press gently until the locking mechanism disengages.
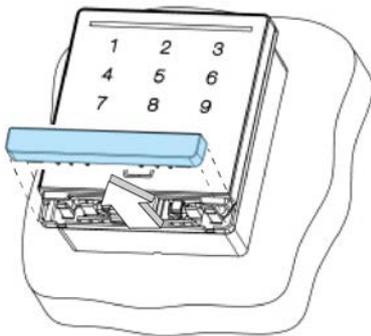
2. Pull the locking bar out towards you.

The reader is removed.

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6 Setting up the reader/updater in AccessOne

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- Anlagenbetreiber

When used in AccessOne, the reader offers a number of functions for displaying and capturing data. As an access terminal, the reader can be used either with RFID medium and PIN code or with ID number and PIN code. As a time registration terminal, time registration messages can additionally be generated. When used in conjunction with RFID furniture locks, the reader serves as an information terminal.
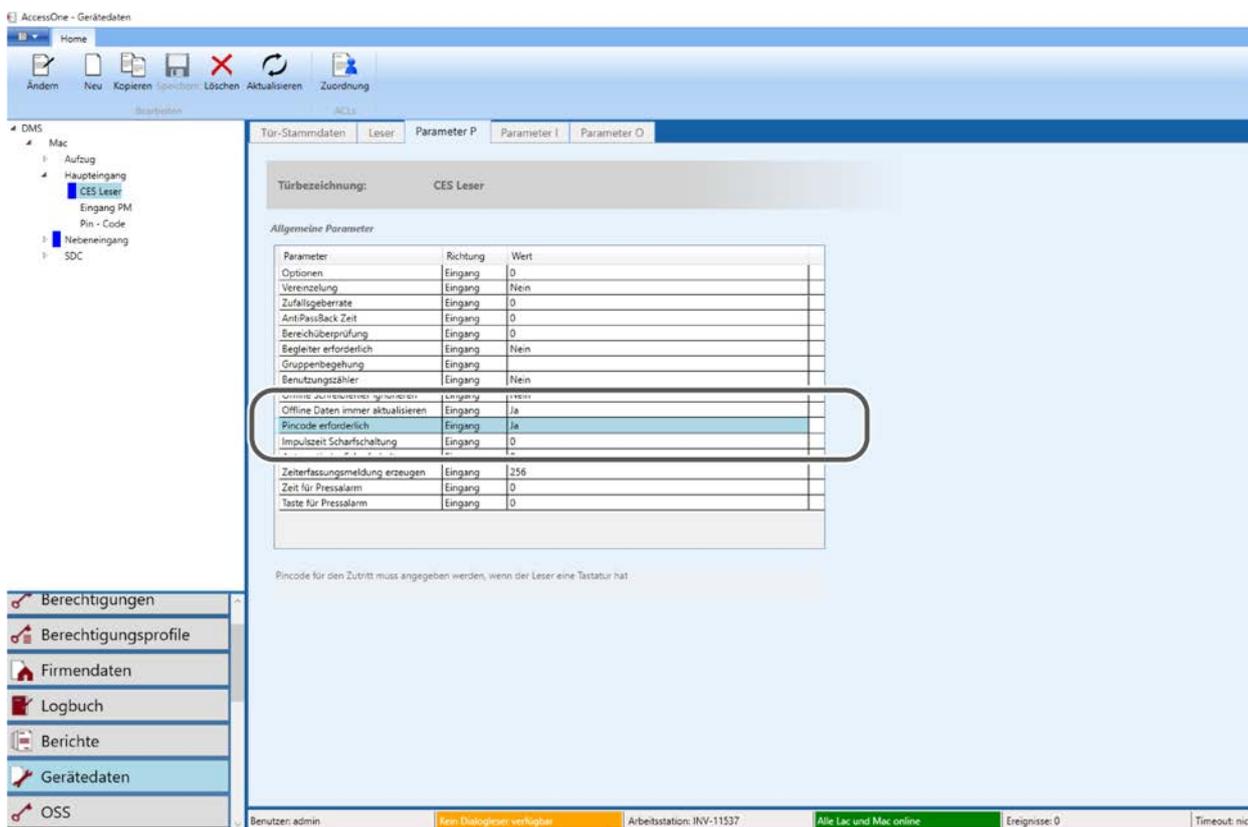
6.0.1 Using the reader as an access terminal

Identification by the reader is normally performed using an ID medium. In certain areas, an additional PIN prompt offers increased security. Identification can, however, also take place without an ID medium, whereby the user manually enters the ID number and an additional PIN.

Procedure

1. In the 'Device data' dialogue, on the 'Parameter P' tab, set the 'PIN code required' parameter to 'Yes'.

2. In the 'Person data' dialogue, on the 'Master data' tab, have the user enter their individual PIN code.

EXAMPLE: If a user is authorised to access, they must first enter '0' for the door to open. The reader now switches to keypad entry mode and starts to flash alternately green and red. The user enters their ID number and confirms it with the 'E' key. Next, the user enters their PIN and the door opens.

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7 Operation

Zielgruppe dieses Kapitels:

- Endbenutzer

7.1 Access function

7.1.1 Access with locking medium plus PIN code

7.1.2 Access with ID number plus PIN code

Prerequisite:

- 'PIN code required' parameter is enabled (select 'Device data' dialogue > 'Parameters' tab > 'PIN code required' parameter)
- PIN is created in master data (select 'Personal data' dialogue > 'Master data' tab > 'PIN' area).

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8 Technical data

8.1 Dimensions
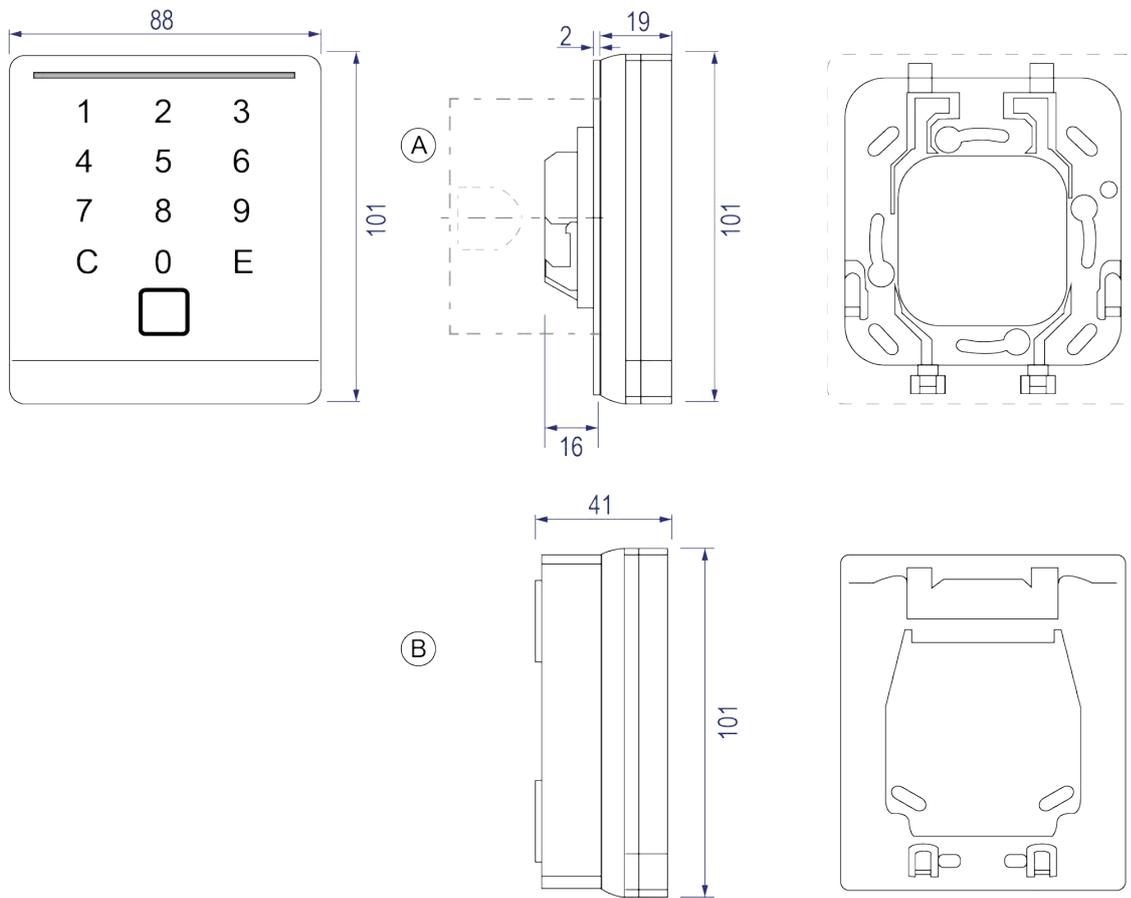
All dimensions in mm

A = Flush-mounted (UP)

B = Surface-mounted (AP)

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8.2 Equipment features

Article designation	Reader PHG Voxio (Surface-mounted / Flush-mounted| Art.-Nr. 348004V / 348005V)
Version	Reader without display
Type	Surface-mounted and flush-mounted housings made of plastic
Operation	Contactless with locking medium; capacitive keypad
Connector type	8-pin screw/plug-in terminal
Tamper monitoring	Detection of attempts to pull unit away
Suitable locking media (MIFARE version only)	MIFARE® Classic® (1k/4k), MIFARE® DESFire® EV2 (UID conforming to ISO14443 and application), all ISO14443 locking media (not MIFARE Ultralight® C)
Reading range	Approx. 30 mm
Signalling	3 LEDs, RGB multicolour backlit surface for keypad and icon (brightness adjustable), 1 loudspeaker for acoustic signal (frequency adjustable)
Temperature range	Storage temperature -30°C to +70°C Operating temperature -20°C to +60°C
Prohibited atmospheres	Not suitable for use in corrosive atmospheres (chlorine, ammonia, lime water)
Protection class	IP54
Operating voltage	8-30 V DC(with internal polarity reversal protection)
CE approval	EN 301 489-1; EN 300 330 v2.1.1; EN 62368-1; EN 50364; EN 301 489-3; EN 301 489-17

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9   Maintenance

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- produktgeschulte Elektro-Fachkräfte
- Fachkräfte IT/Administration

9.1   Routine maintenance work

Device

Lassen Sie das Gerät halbjährlich ausschließlich durch CES oder Fachpartner warten und auf fehlerfreie Funktion prüfen.

9.2   Care for your devices

You can clean the external, accessible parts of your devices (housing, labelling, etc.) with a soft, slightly damp cloth.

⚠️ Do not use oils or lubricants to maintain the locking devices.

⚠️ Solvent-based cleaning agents may damage the surfaces, you should therefore avoid the use of such solvent-based agents.

9.3   Service

For service assistance, please contact your CEStronics partner.

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10   Disposal

10.1   Notes on disposal

Device

In accordance with the Waste Electrical and Electronic Equipment (WEEE) Directive, all consumers have a duty to dispose of old electronic appliances separately from household waste. Disposal of electronic devices in household waste is prohibited Unwanted equipment can be disposed of at local municipal collection points. You can also return the equipment to C.Ed. Schulte GmbH Zylinderschlossfabrik. Please ensure that the correct carriage costs are paid for the return.

The crossed-out bin symbol means: do not dispose of old electronic equipment in household waste.

Electronic equipment contains a wide variety of substances and materials. If waste electrical and electronic equipment (WEEE) is not disposed of correctly, environmental and health risks may arise due to any pollutants still present. Additionally, proper disposal enables recyclable materials to be recovered and recycled, which makes a significant contribution to the conservation of natural resources.

Packaging

The packaging of the components is made from environmentally friendly and recyclable materials. Specifically, these are:

- Outer packaging and inlays made of cardboard
- Inlays and protective films made of polyethylene (PE)

Please dispose of the packaging in an environmentally friendly way by separating the waste types.

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