

# Control Box CA63

## Data Sheet



Bluetooth®

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## Introduction

The LINAK control box CA63 with analogue input offers a consolidated range of unprecedented features – all utilising standardised technology, interfaces and compatibility.

The CA63 for LINAK actuators is intended for the control of, for example, homecare bed movement. Equipped with 200 W SMPS, Bluetooth®, excellent and well-thought-out cable management as well as multiple easy mounting options, this control box opens up a wide range of application possibilities for the provident hospital and care products manufacturer.

With the CA63, FET, IPX6 Washable DURA™ protection and a battery port, are all standard options. The entire product platform supports the LINAK principle 'One World – One box' – worldwide operable and applicable.

## Features and options

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Power supply                   | Universal, SMPS (Switch Mode Power Supply)<br>200 W power output<br>100-240 VAC, 50/60 Hz<br>-15%/+10% |
| Mains indicator                | Yes - Green LED (mains connected)                                                                      |
| Bluetooth®                     | Yes                                                                                                    |
| Actuator interface             | 4 channels<br>6-pin Mini-Fit                                                                           |
| Hand control interface         | 1 port<br>10-pin modular plug                                                                          |
| Battery interface              | 1 port<br>4-pin Mini-Fit<br>(output 300 mA when no actuators are running)                              |
| Standby power                  | Approx. 0.5 W (230 V)                                                                                  |
| Colour                         | Light grey (RAL 7035)                                                                                  |
| Output short-circuit protected | Yes                                                                                                    |
| Control concept                | FET (no relay noise)                                                                                   |
| Power Supply Circuit Method    | Half bridge                                                                                            |
| Weight                         | Low weight 0.5 kg                                                                                      |
| Actuator compatibility         | Actuators with signal, feedback by hall and potentiometer                                              |
| Battery charger                | Battery input available.<br>No charger, but supports battery with internal charger                     |
| Charging indicator             | Supported                                                                                              |
| Acoustic warning signal        | Internal buzzer                                                                                        |
| Battery alarm                  | Supported                                                                                              |
| PCP version                    | PCP 2.0<br>(PCP 1.0 available in SW)                                                                   |
| EOP                            | Yes                                                                                                    |
| IP-Rating                      | IPX6 Washable DURA™                                                                                    |
| Housing type                   | V-0, PP                                                                                                |
| Operation                      | True parallel                                                                                          |
| Max. current                   | 10 A/CH                                                                                                |
| Accessories                    | Analogue common standard HB                                                                            |
| Power management               | High speed at low loads and/or high loads at a lower speed                                             |
| Overload protection            | The CA63 can reduce the output voltages to prevent overload                                            |



|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| Safety system    | Thermally protected<br>Short-circuit protected<br>Hot-plugging protected |
| Start/stop       | Soft start/direct stop                                                   |
| Protection class | Class 2<br>Class 1 is possible with pigtail on mains cable               |
| Cable lock       | Integrated in lid                                                        |
| Mounting         | Compatible with a wide range of mounting brackets                        |

## Usage

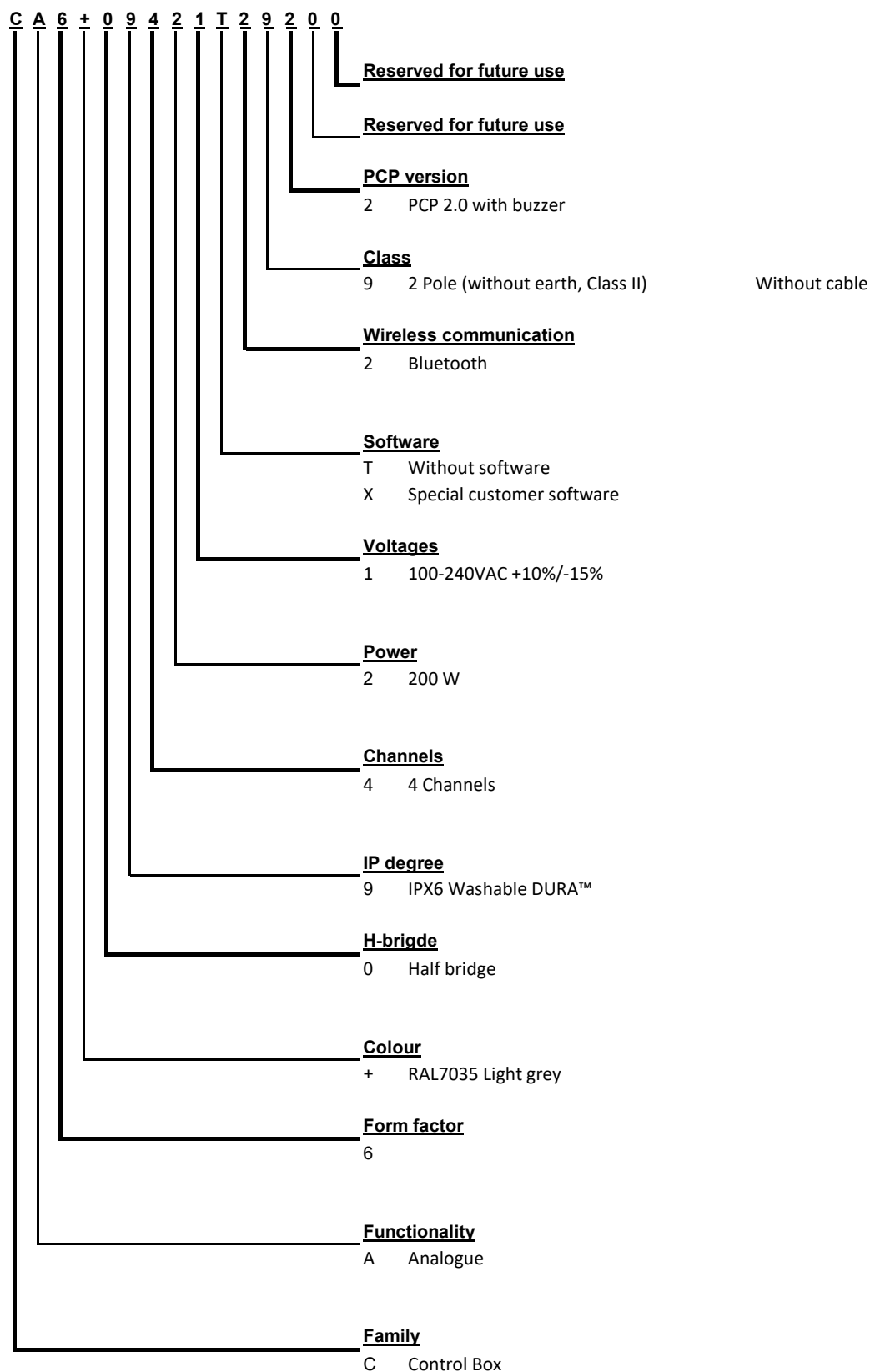
|                        |                            |
|------------------------|----------------------------|
| Operation temperature  | +5 °C to +40 °C            |
| Storage temperature    | -10 °C to +50 °C           |
| Relative humidity      | 20% - 80% - non-condensing |
| Atmospheric pressure   | 700 to 1060 hPa            |
| Meters above sea level | Max. 3000 meters           |

Mains supply grid should be limited to the highest prospective short circuit current of 1,500 A.

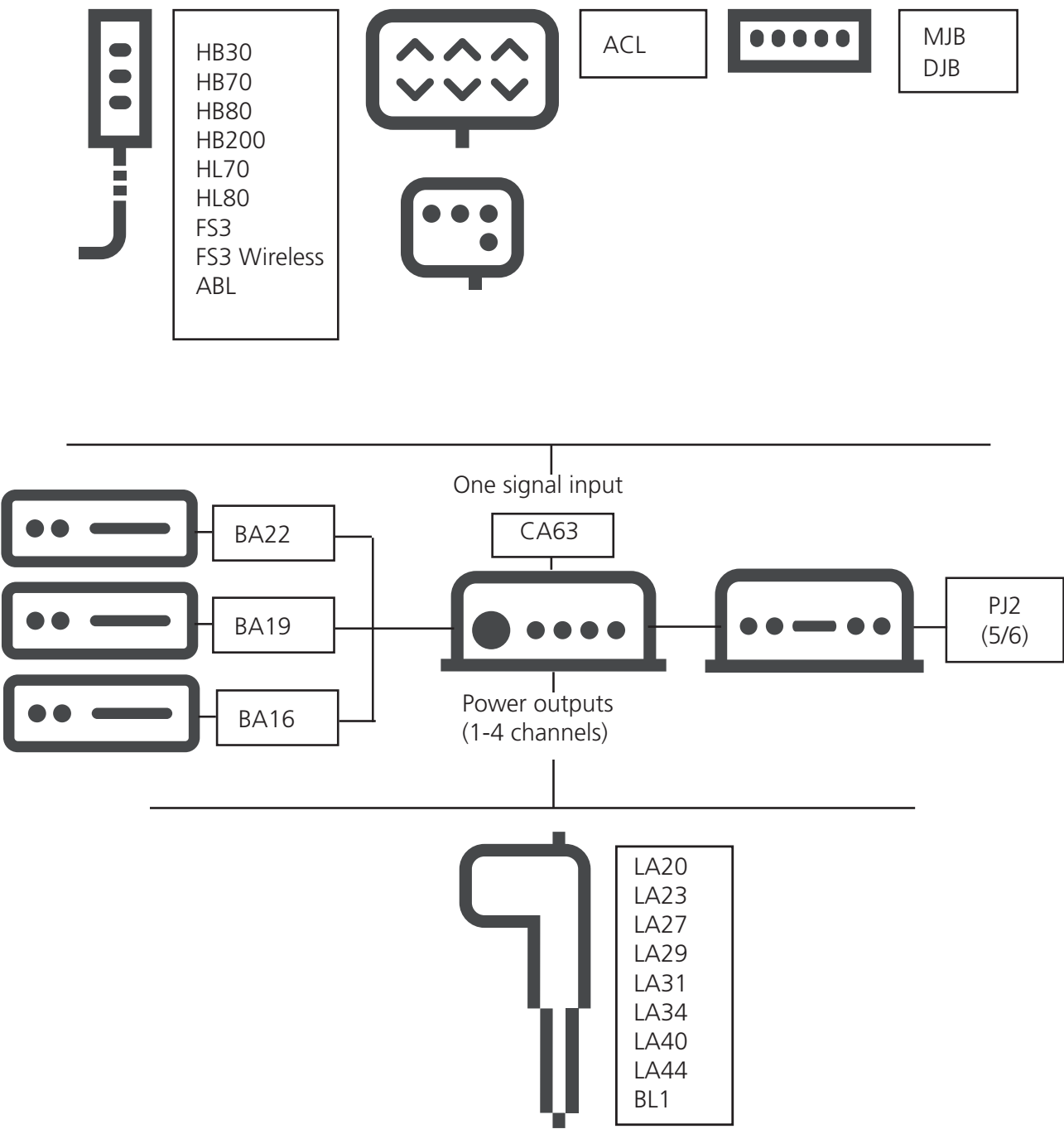
Demands to mains supply safety for the application in accordance with IEC 60601-1 ed. 3.2, § 8.11.5.

|           |                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals | - IEC60601-1 edition 3.1<br>- ANSI/AAMI ES60601-1:2005/(R) 2012<br>- CSA CAN/CSA-C22.2 NO. 60601-1:14<br>- IPX6 Washable in accordance with IEC60601-2-52 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

## Ordering example



System overview



## LED indicator



CA63 is equipped with a green LED for indication of mains power connected.

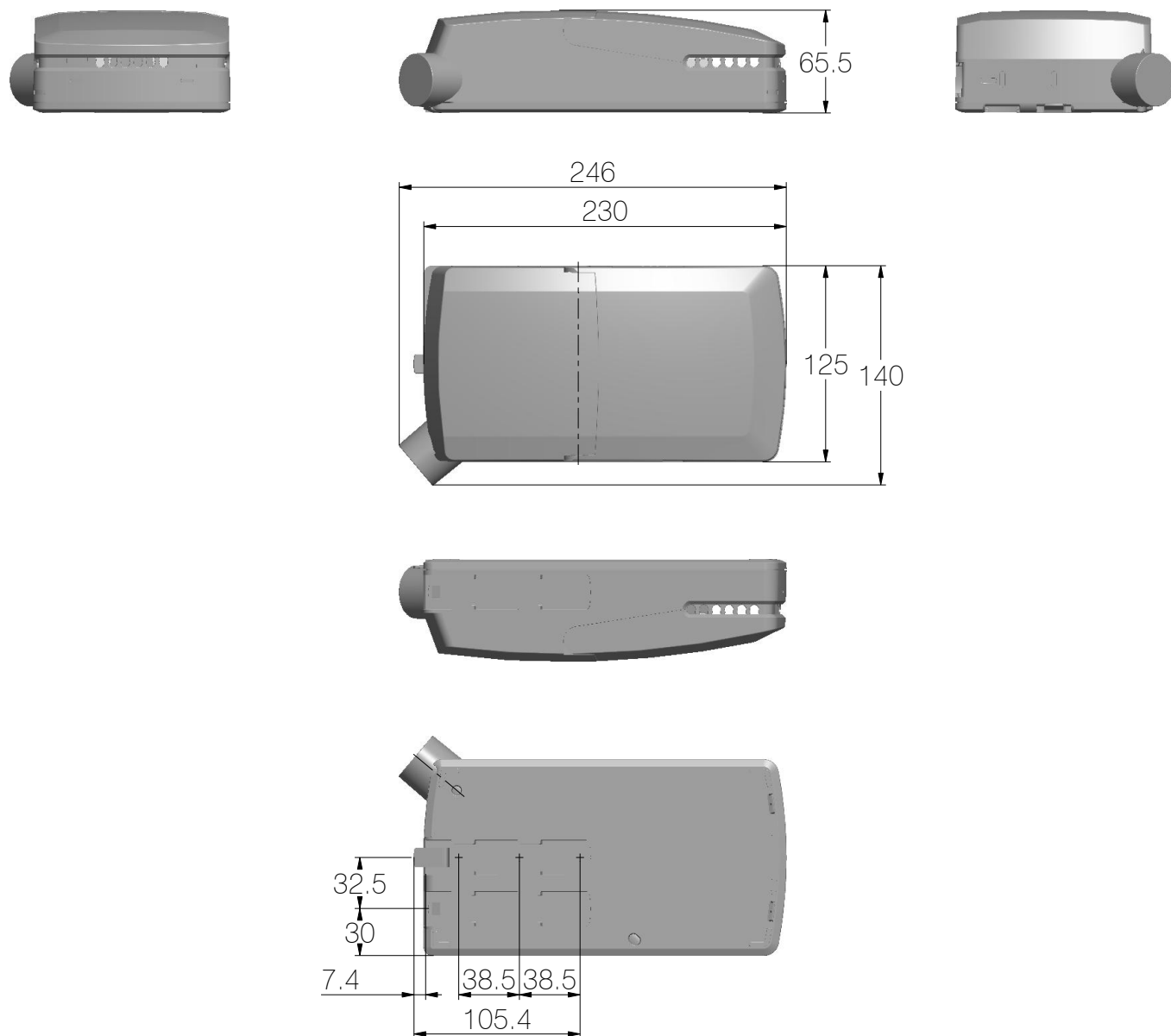
When the CA63 is connected to mains, the LED is green. Connected only to battery, the LED is off.

## Acoustic signal functionality

The buzzer will make a warning, when a button on the hand control is pressed, and the battery state of charge is low.

The buzzer can also be activated by the control box to signal other conditions. This must be specified in the control box software.

## Dimension drawing

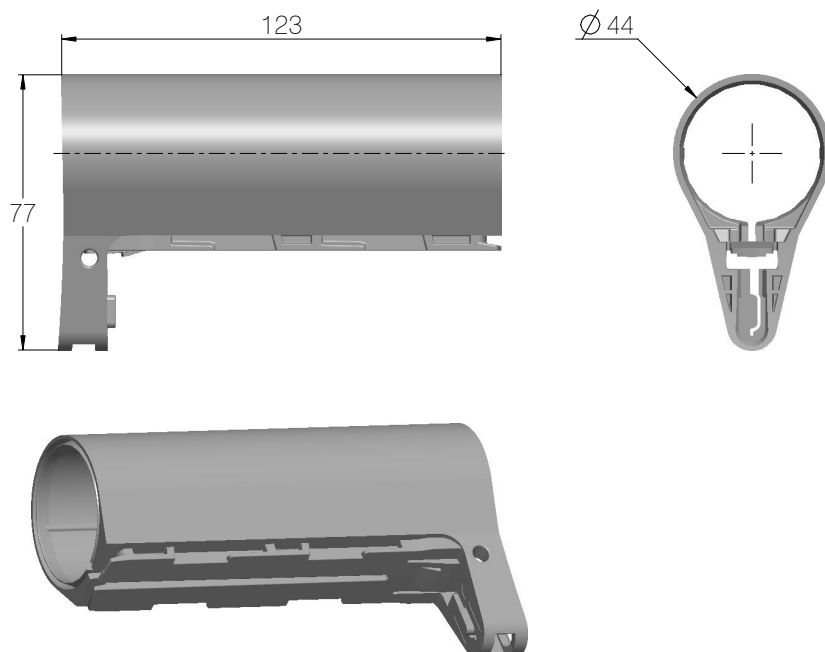


Drawing No.: 1014W4010

## Mounting brackets

### For mounting with LA40

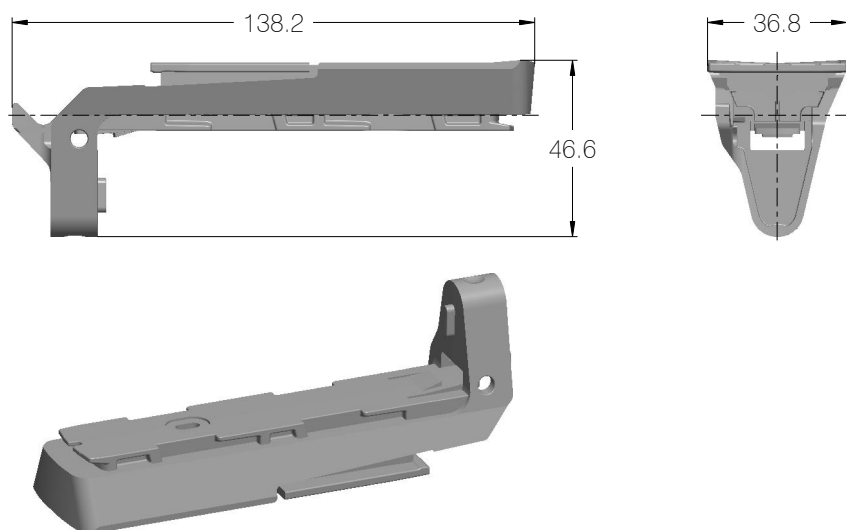
Article No.: 1015W1002



Drawing No.: 1015W4002

### For mounting with LA31

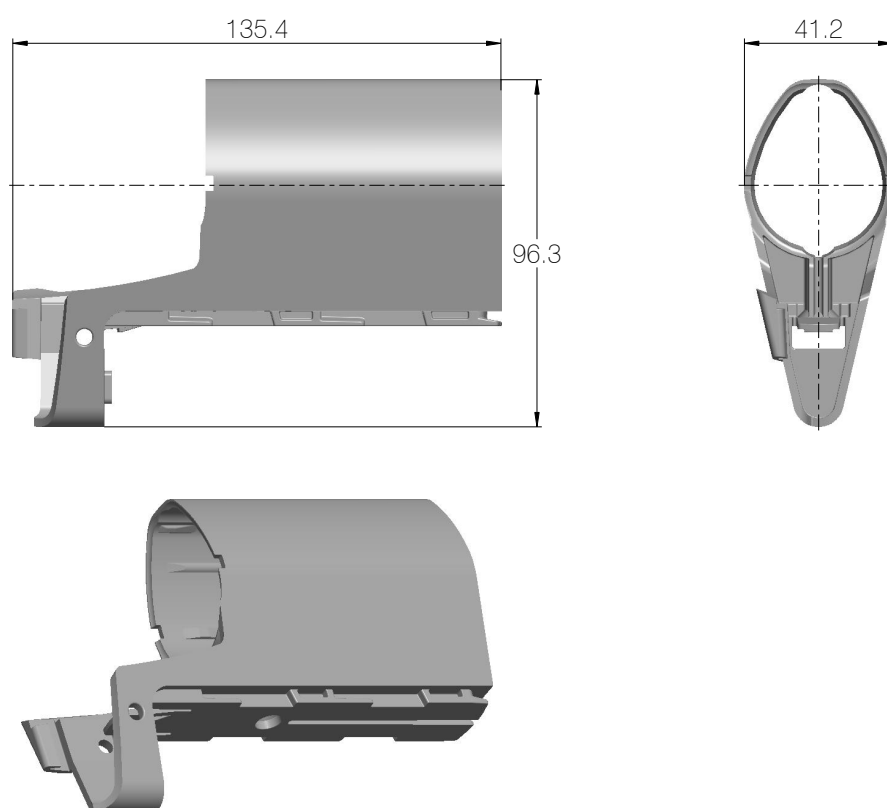
Article No.: 1015W1004



Drawing No.: 1015W4004

**For mounting with LA27**

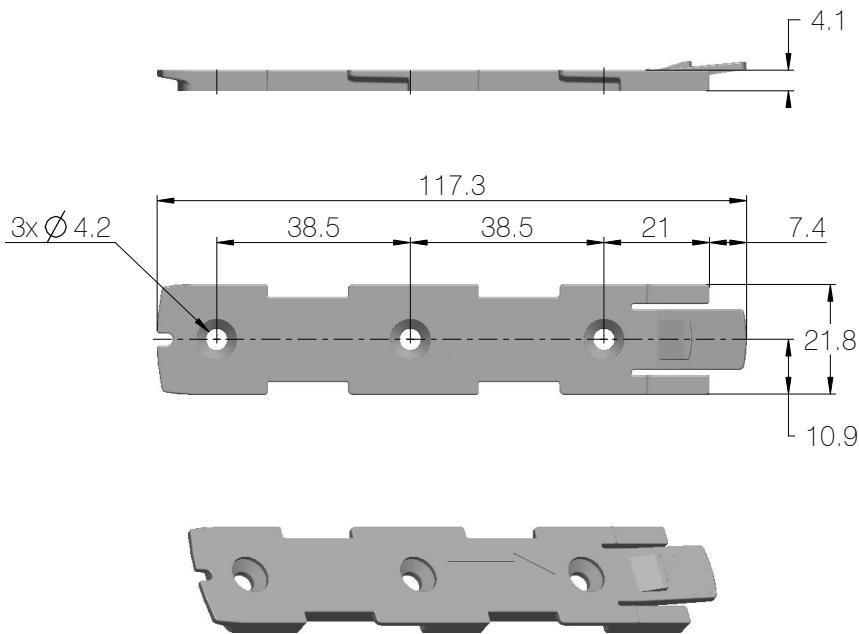
Article No.: 1015W9003



Drawing No: 1015W4003

**Mounting bracket (frame flat)**

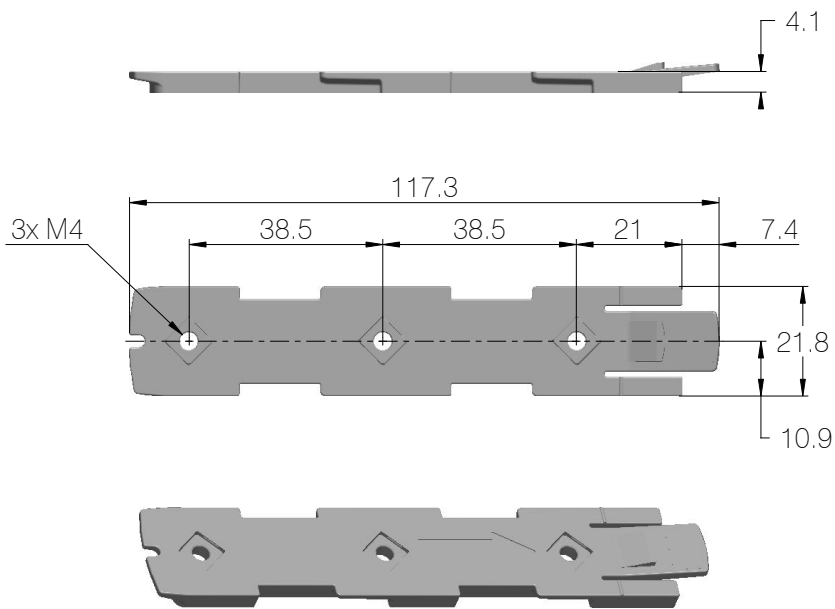
Article No. 1015W1001



Drawing No.: 1015W4001

**Mounting bracket (frame flat) w/M4 nuts**

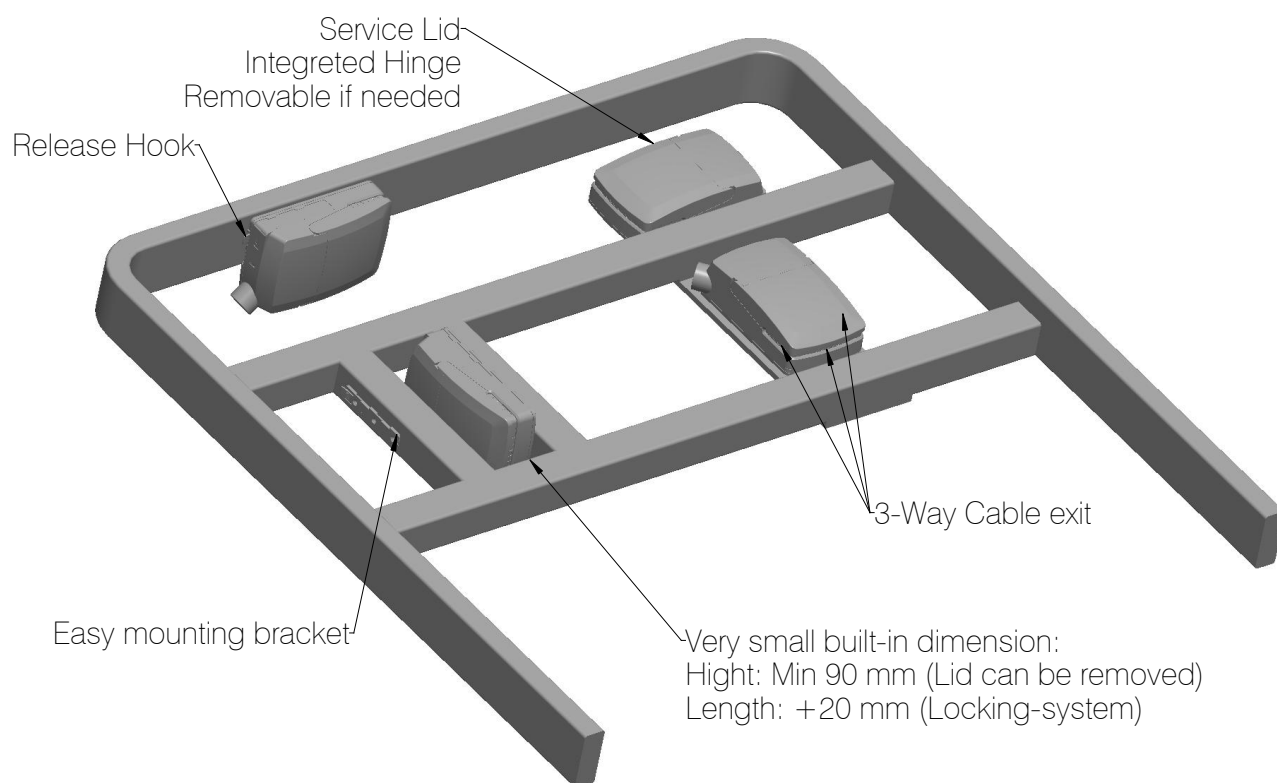
Article No. 1015W9009



Drawing No.: 1015W4009



## Mounted on frame



Drawing No.: 1013W4008

It is recommended to mount the CA63 in a position that allows water to escape.

Recommended torque: 0.6Nm +/-0.1

The bracket can be mounted to the bed frame or any other application by following one of the following mounting procedures:

1. M6 nut to be placed in bracket and fixed with M6 bolt from the rear side
2. M5 machine screw with flat washer to be fixed through bracket with nut on the rear side
3. Self-tapping screw to be placed through bracket and onto the frame

## Mounting of cables and cable lock

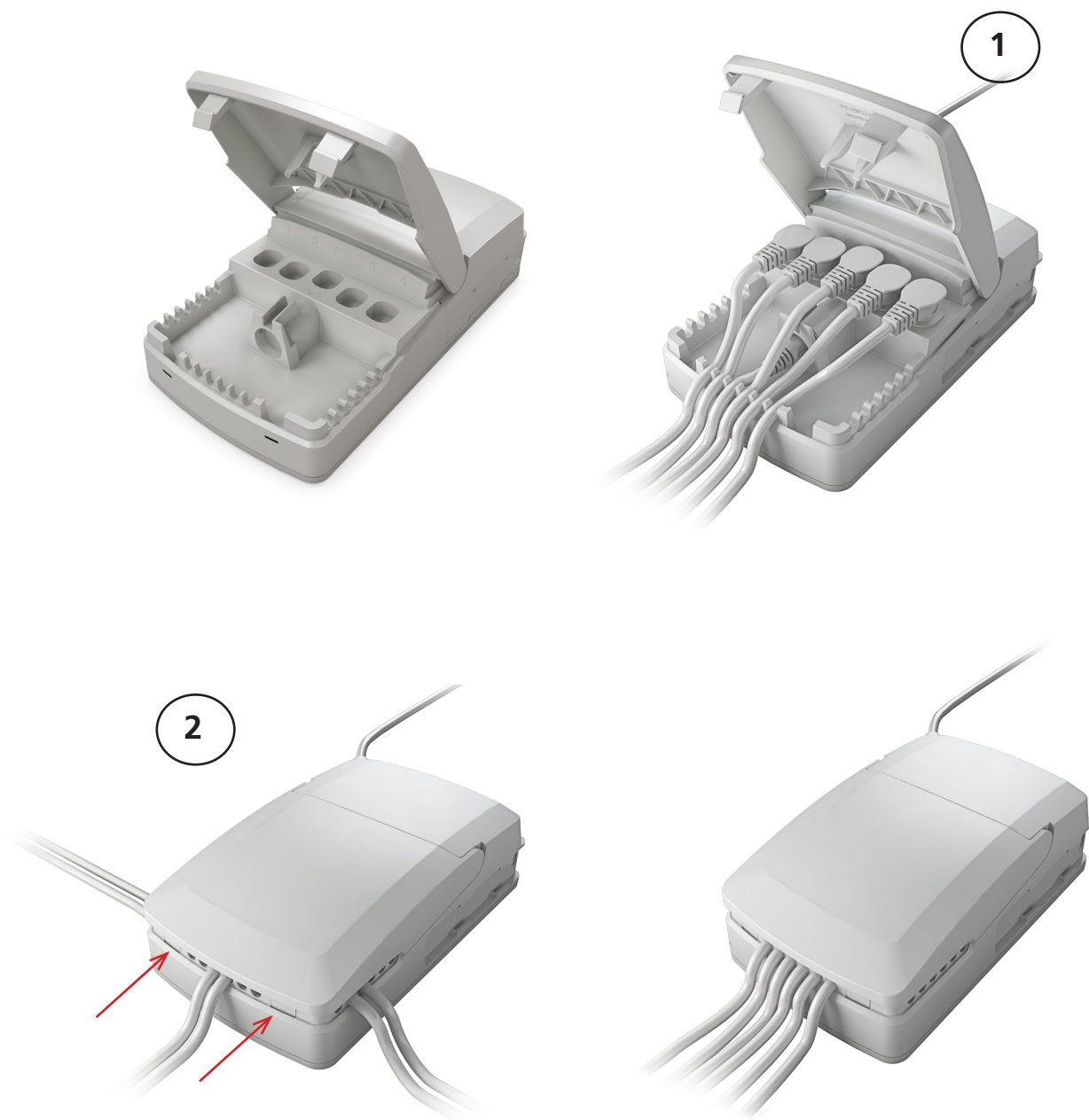
CA63 has a uniquely designed cable lid. The lid also works as an integrated cable lock when closed.

1. Mount cable plugs in control box
2. Close lid until lock snaps into place (see arrows)

To allow free access to the cables, the lid has a rest position when completely opened.

It is possible to remove the lid by lifting it a few degrees and pulling it away from the housing under tight mounting conditions.

## Cable management



# Contacts

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