# Control Box CO65

# **Data Sheet**





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## Introduction



The LINAK OpenBus™ control box CO65 offers a consolidated range of unprecedented features – all utilising standardised technology, interfaces and compatibility.

The CO65 for LINAK actuators is intended for the control of, for example, hospital bed movement.

Equipped with 280 W SMPS, excellent and well thought-out cable management as well as multiple easy mounting options, this control box opens up a wide range of application options for the provident hospital and care products manufacturer.

With the CO65, 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<br>(Switch Mode Power Supply)<br>280 W power output<br>100-240 VAC, 50/60 Hz<br>-15% / +10% |
| Mains indicator | Yes - Green LED (mains connected) |
| CO-Link™ | Link of primary and secondary CO65 – up to 8 channels and 2x280 W |
| 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>(charging current 300 mA when no actuators are running) |
| Standby power | Approx. 0.5 W (120/230 V) |
| Colour | Light grey (RAL 7035) |
| Output short-circuit protected | Yes |
| Control concept | FET (no relay noise) |
| Power Supply Circuit Method | Half bridge |
| Duty cycle | 10% - 2/18 min. on/off continuous use<br>SMPS load profile:<br>80 sec./280 W +<br>40 sec./140 W +<br>18 min./20 W |
| Weight | Low weight 0.7 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 by using BA22 |
| Acoustic warning signal | Internal buzzer |
| Battery alarm | Supported by using BA22 |
| PCP version | Will be used as PCP 1.0 and 2.0 (to be defined in SW) |
| EOP | Yes |
| IP-Rating | IPX6 Washable DURA™ |
| Housing type | V-0, PP (chemical resistant sealed-for-life housing) |
| Operation | True parallel (Hall feedback) |

| | |
|---|---|
| Max. current | 10 A/ch, 2/18 min. max. 14 A/ch. in a limited time period |
| Accessories | OpenBus™ standard |
| Power management | High speed at low loads and/or high loads at a lower speed |
| Overload protection | The CO65 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

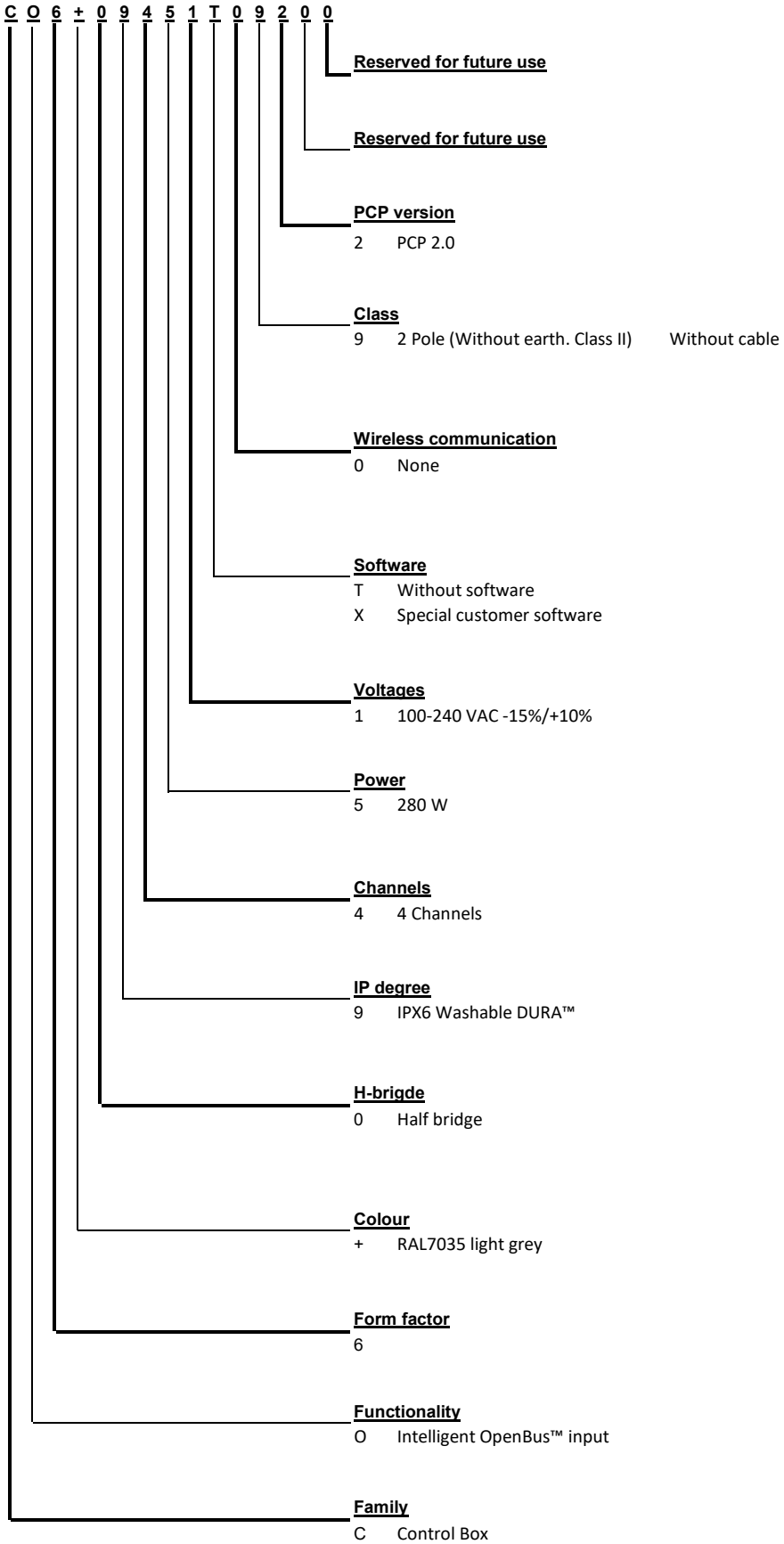
| | |
|---|---|
| Operating temperature | +5 °C to +40 °C |
| Storage temperature | -10 °C to +50 °C |
| Relative humidity | 20% - 80% – non-condensing |
| Atmospheric pressure | 700 to 1060 hPa |
| Meters above sea level | Max. 3000 meters |

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 |

# Ordering example



## Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: CO65

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

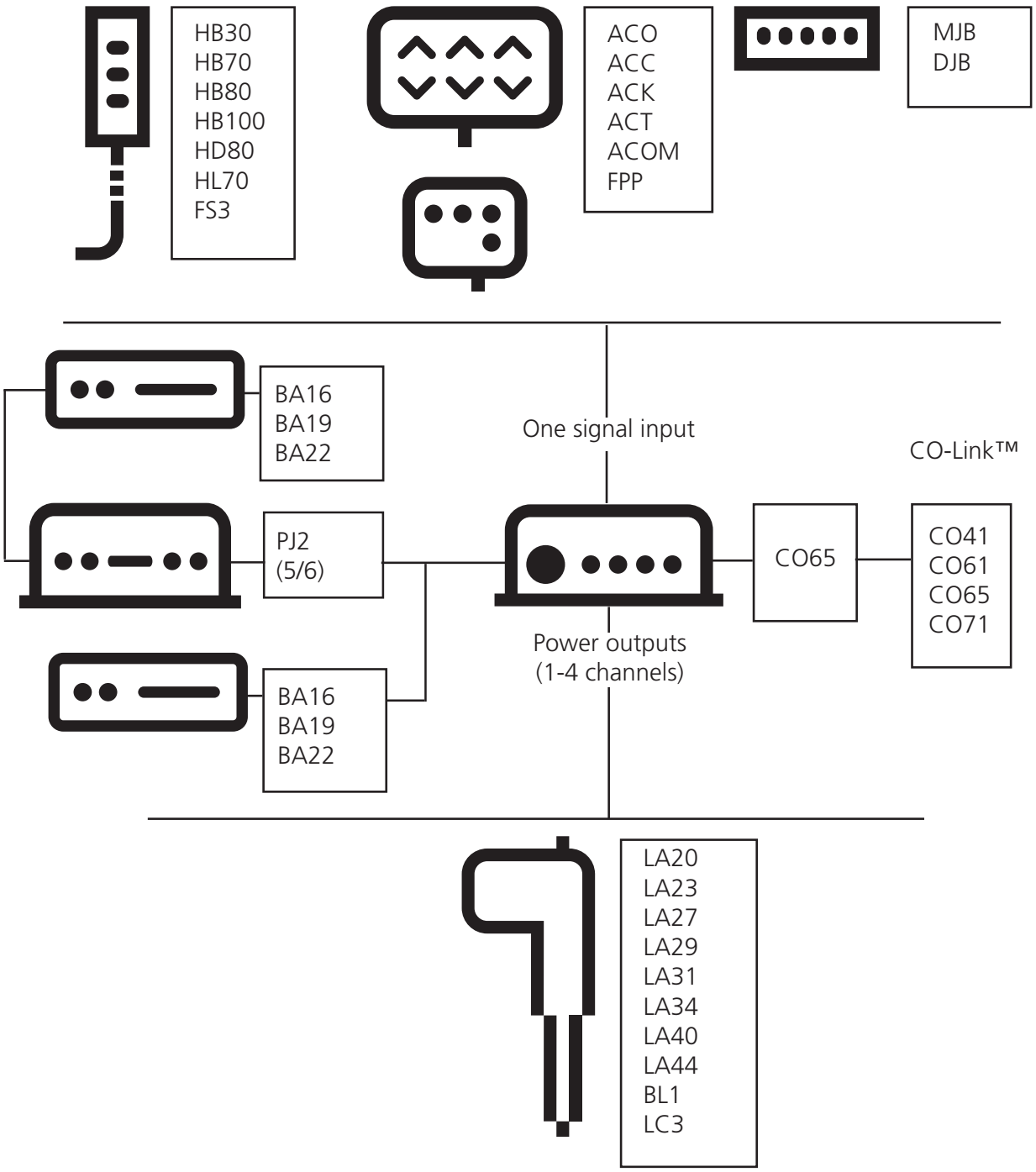
Listed LINAK item for application approval: COS**S*SS**SS*S

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

## System overview



## LED indicator



CO65 is equipped with a green LED for indication of mains power connected.

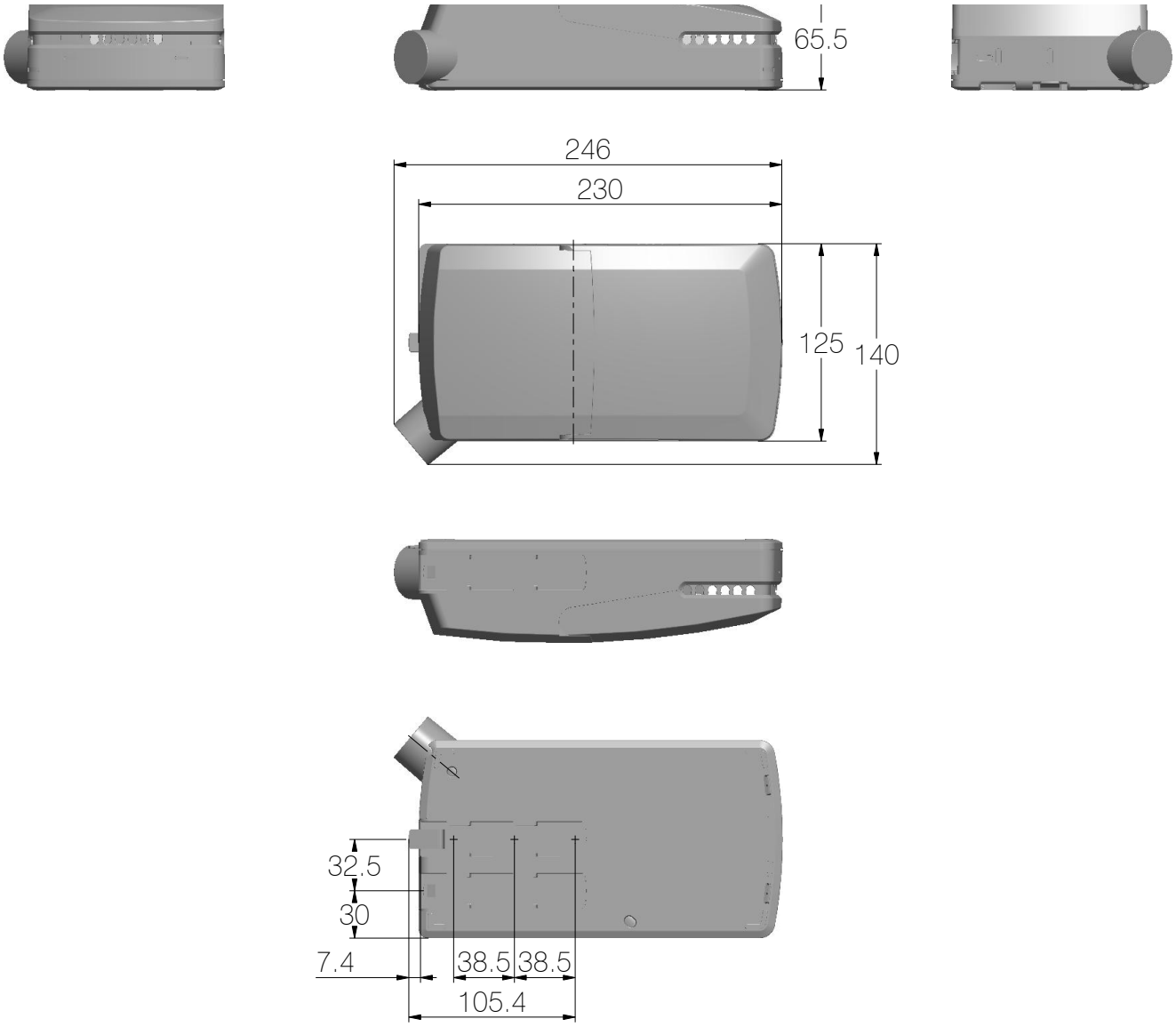
When the CO65 is connected to mains, the LED is green. Connected only to battery, the LED is off.

## 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

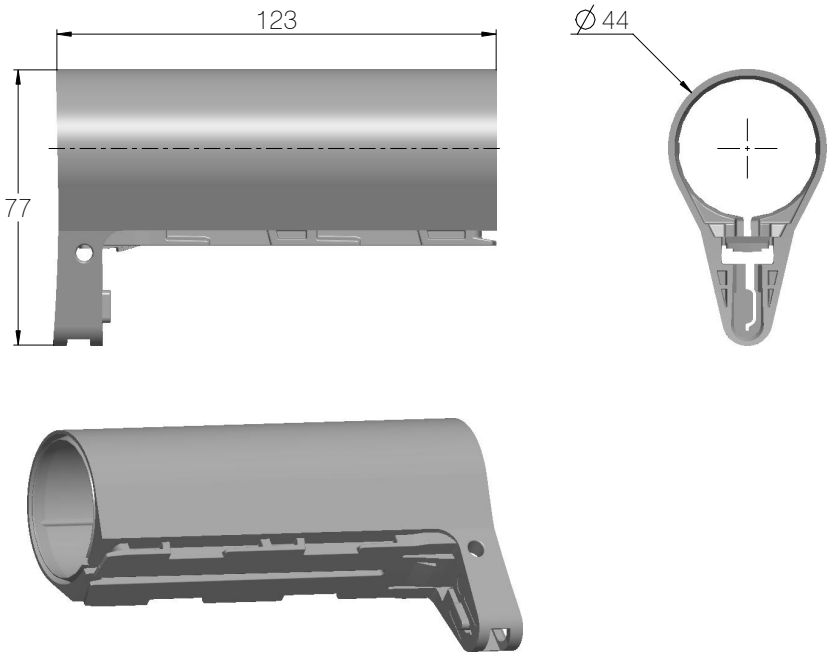



Drawing no.: 1014w4010

# Mounting brackets

## For mounting with LA40

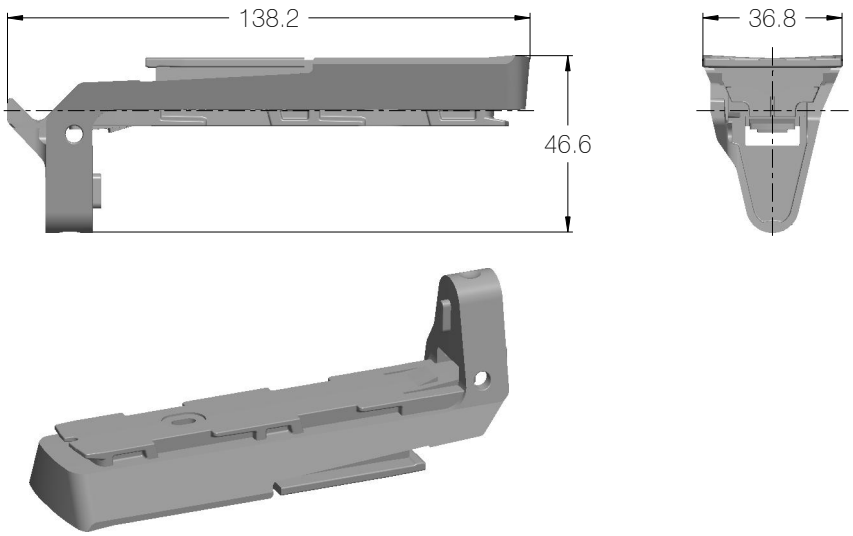
Article No.: 1015W1002




Drawing No.: 1015W4002

## For mounting with LA31

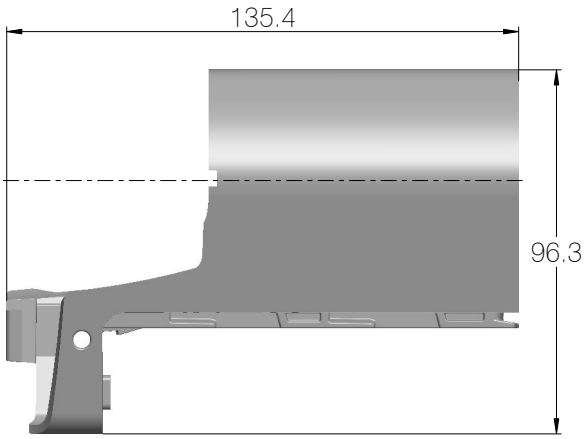
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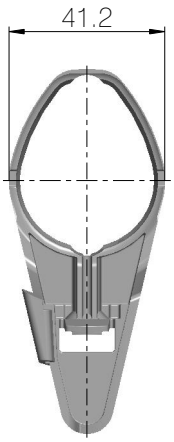


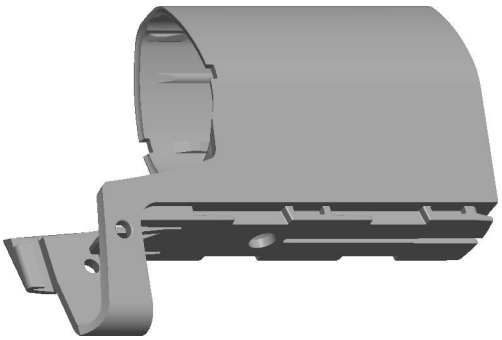

Drawing No.: 1015W4004

## For mounting with LA27

Article No.: 1015W9003



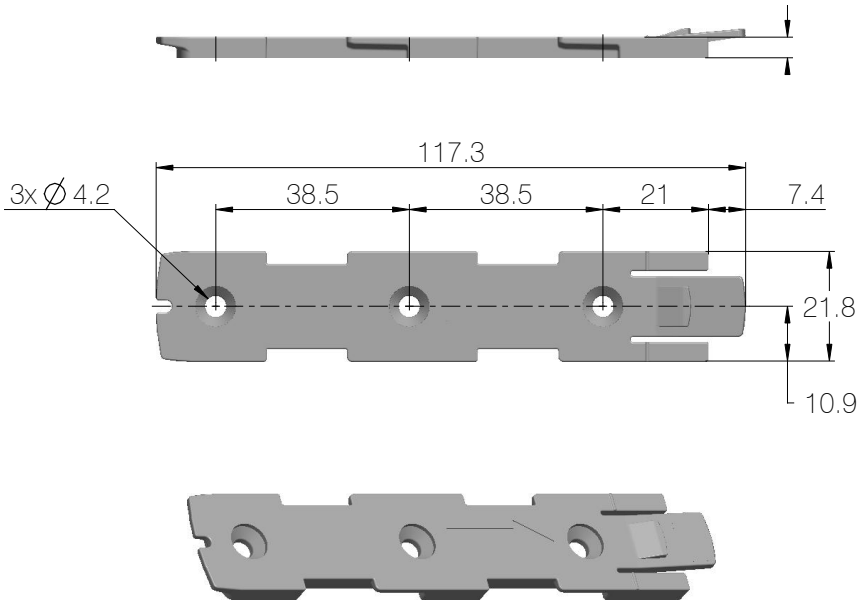



Drawing No: 1015W4003

## Mounting bracket (frame flat)

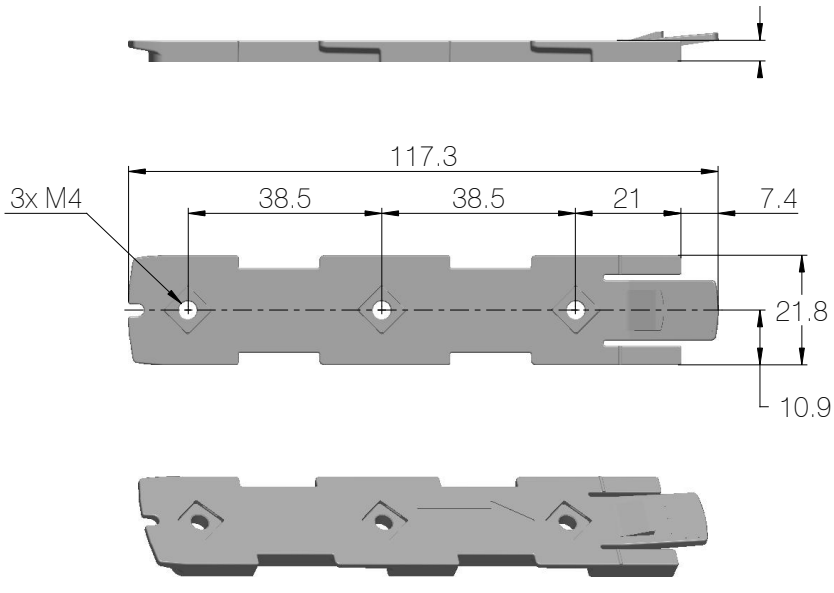
Article No. 1015W1001




Drawing No.: 1015W4001

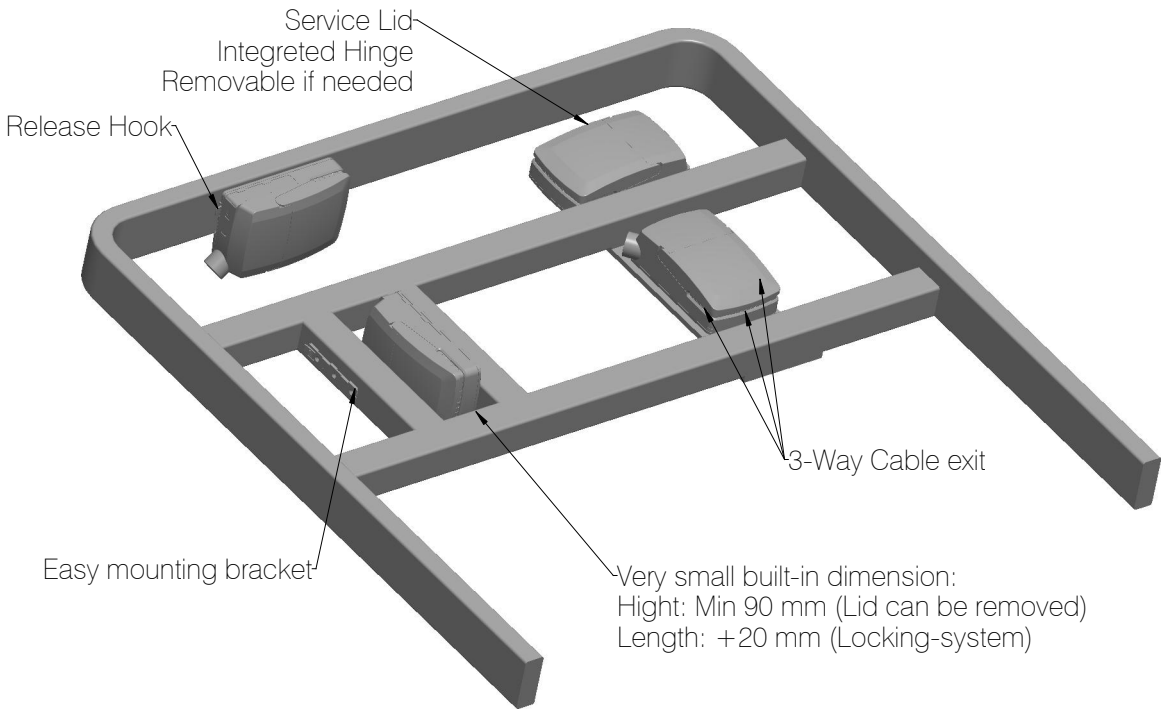
## Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009




Drawing No.: 1015W4009

## Mounted on frame




Drawing No.: 1013W4008

It is recommended to mount the CO65 in a position that allows water to escape.

Recommended torque: 0.6 Nm +/-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

CO65 has a uniquely designed cable lid. The lid also works as an integrated cable lock when closed.

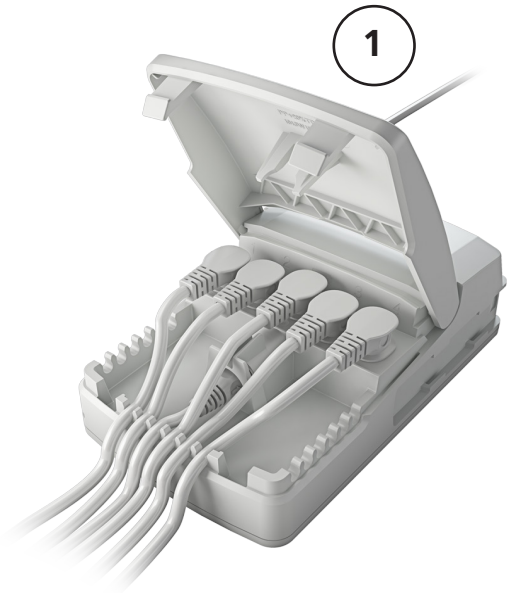
1. Mount cable plugs in control box
2. Close lid until lock snaps into place (see arrows)

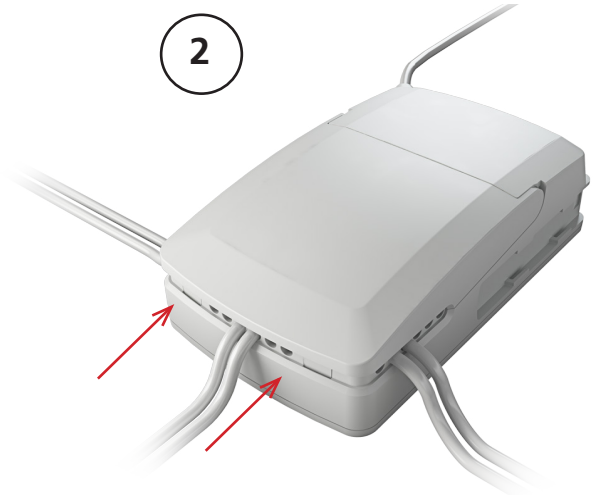
To allow free access to the cables, the lid has a rest position when completely opened.

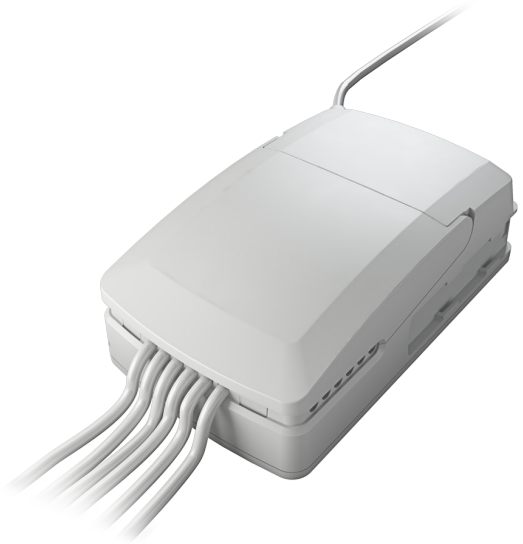
It is possible to remove the lid by lifting it a few degrees and pulling it away from the housing under tight mounting conditions.

## Cable management





## CO-Link™

Up to 8 channels and 2x280 W (or combinations of all CO-control boxes).
A CO-Link software makes it possible to link two CO65 control boxes (or combinations of all CO-control boxes) into a system with a primary and secondary control box allowing you to run up to 8 channels with 2x280 W.

**All CO65 benefits and USPs including:**

- 1 control – 2 x CO65s
- 8 channels
- 2 x 280 W
- Standard items
- 2 x 2.85 Ah battery backup – 2 x BA22

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