

Control Box CA30-CA40

Data Sheet



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Introduction



The control boxes CA30 and CA40 are developed as part of a new control box platform for the care and rehab industry. The control boxes can be mounted separately on the application by means of unique slide-on brackets, but also on several actuator models using a specially designed actuator bracket.

The CA30 and CA40 control boxes are equipped with SMPS (Switch Mode Power Supply) for worldwide operation and optimised performance. The power outputs for channels 1 – 4 are located inside the box. The box has 3 cable exits which make it easy to choose the most suitable cable layout in the application. The control box lid doubles as a cover and cable lock function. FETs (Field-Effect Transistors), IPX6 Washable DURA™ and a battery port are all standard options.

The CA30 and CA40 communicate with the actuator by means of the built-in end stop switches. The motor power will be cut off in the control box and not in the actuator by the signal switches.

Features and options

Power supply	Universal, SMPS (Switch Mode Power Supply) 120 W power output 100-240 VAC, 50/60 Hz
Mains indicator	Yes
Actuator interface	2 or 4 channels 6-pin Mini-Fit
Hand control interface	1 port 10-pin modular plug
Battery interface	1 port 4-pin Mini-Fit (Output 300 mA - no actuator 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)
Duty cycle	10 % – 2/18 min. on/off continuous use Maximum power is 120 W for 80 seconds and 60 W for 40 seconds at 25 °C
Weight	Low weight 0.5 kg
Actuator compatibility	All standard actuators (signal and power switch)
Battery charger	Battery input available No charger, but supports battery with internal charger
PCP version	PCP 1.0
EOP	Yes
IP-Rating	IPX6 Washable DURA™
Housing type	V-0, PP, welded (resistant to chemicals)
Operation	Simultaneous drive (no feedback)
Max. current	8 A/CH (peak) total
Accessories	Analogue common standard HB
Power management	Voltage regulation to ensure max. performance and to limit the output power to max. 120 W
Safety system	Thermally protected Short-circuit protected Hot-plugging protected
Start/stop	Soft start/direct stop
Protection class	Class 2
Cable lock	Integrated in lid
Mounting	Compatible with a wide range of mounting brackets: Bed frame, LA27, LA31, LA40

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.

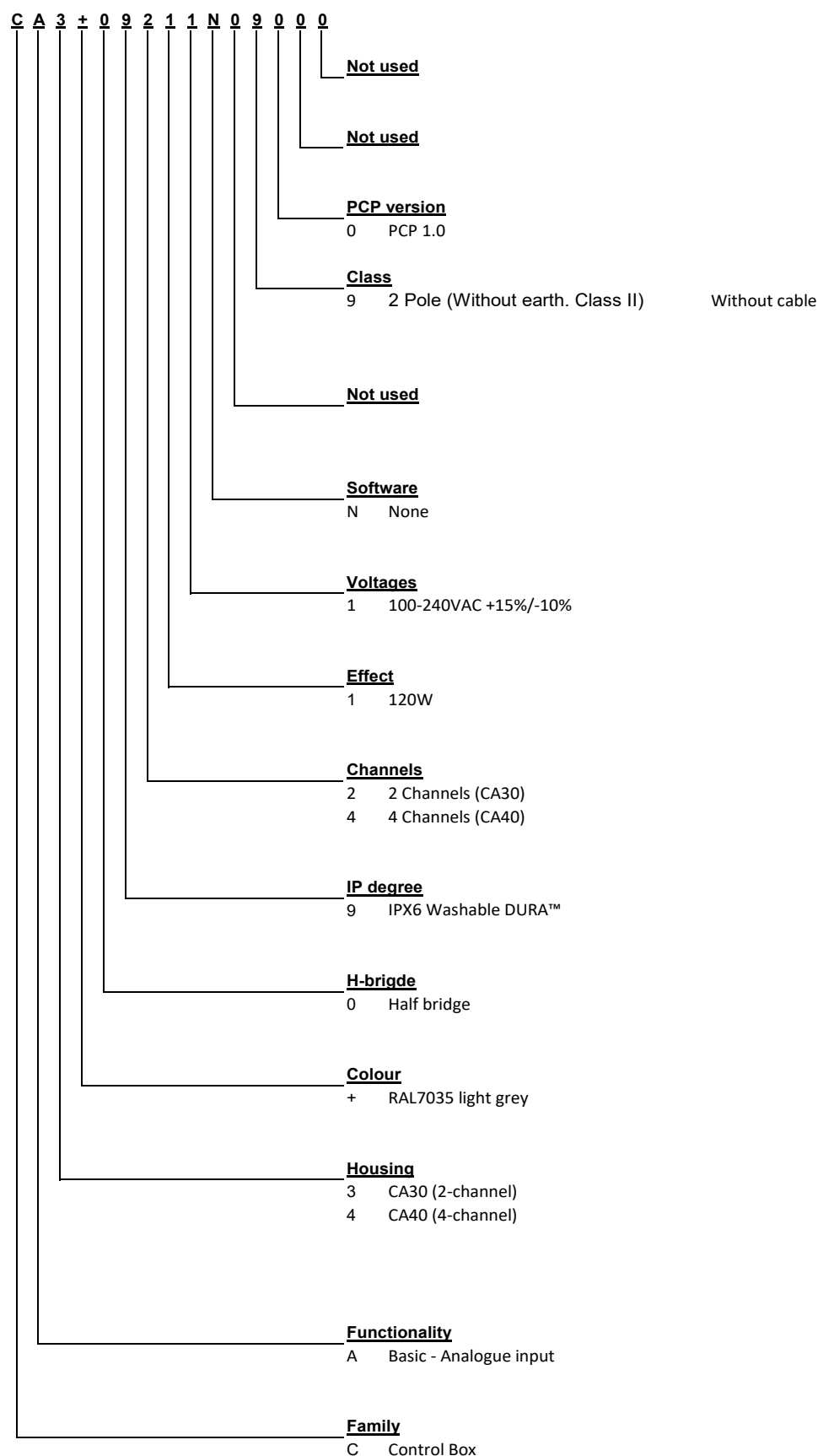
Demands to mains supply safety for the application in accordance with IEC 60601-1 ed. 3.2, § 8.11.5

Approvals

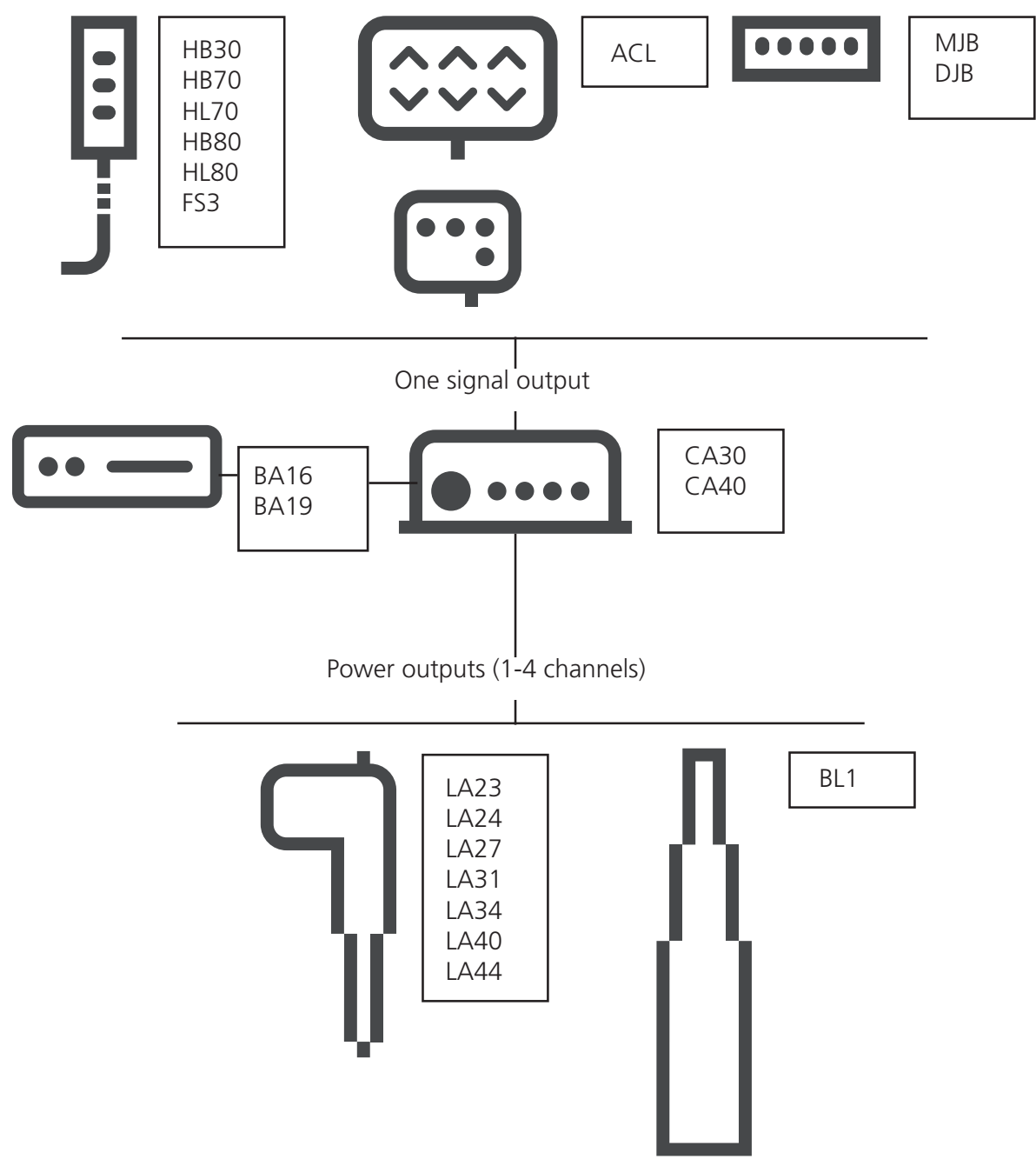
- IEC60601-1
- ANSI/AAMI ES60601-1
- CAN/CSA-22.2 No 60601-1

DENAN Technical Requirements Ministerial Ordinance Appendix 8, 10

Ordering example



System overview

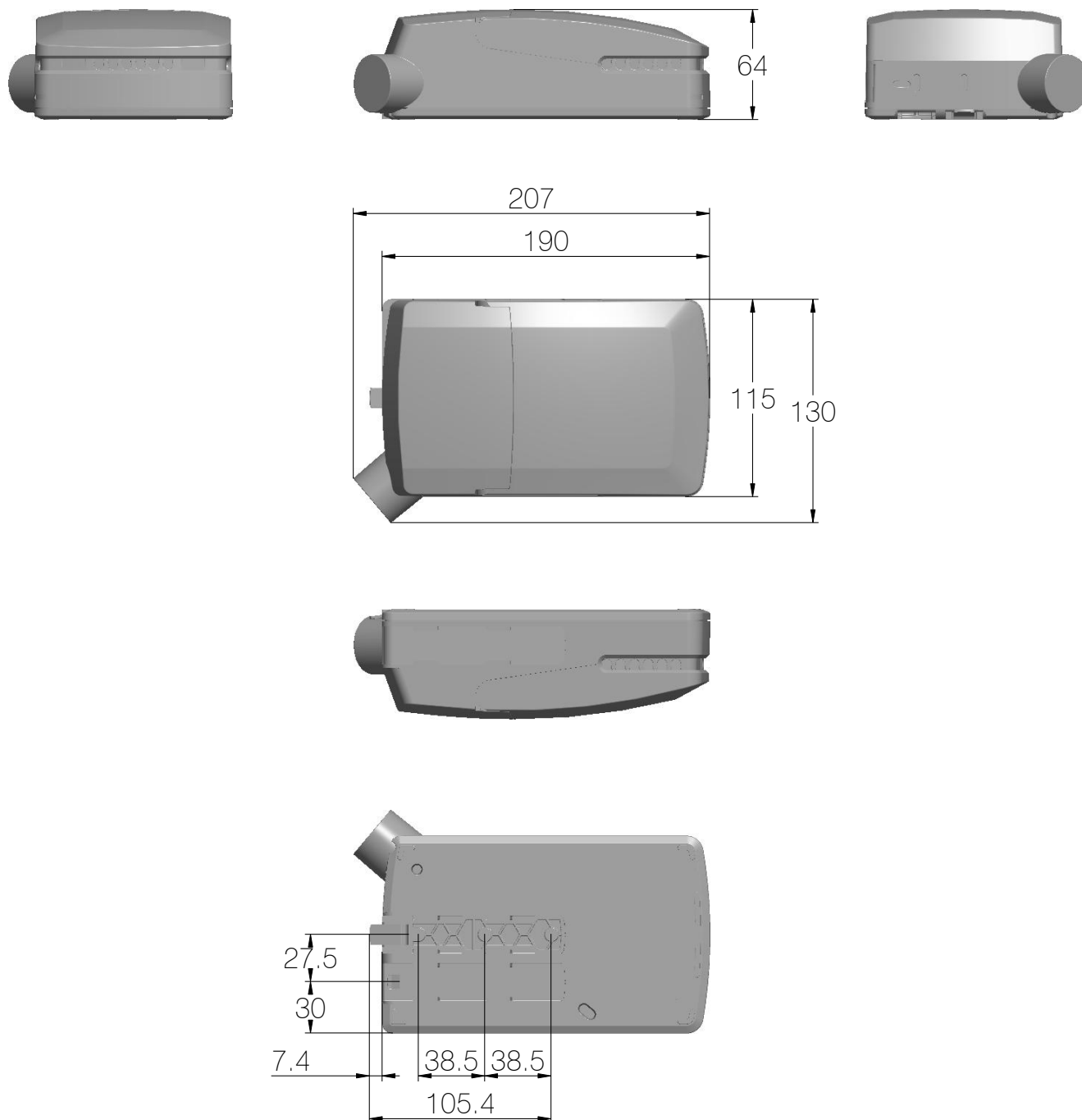


LED indicator



CA30-CA40 is equipped with a three-colour LED for indication of mains or battery operation.

Dimension drawing

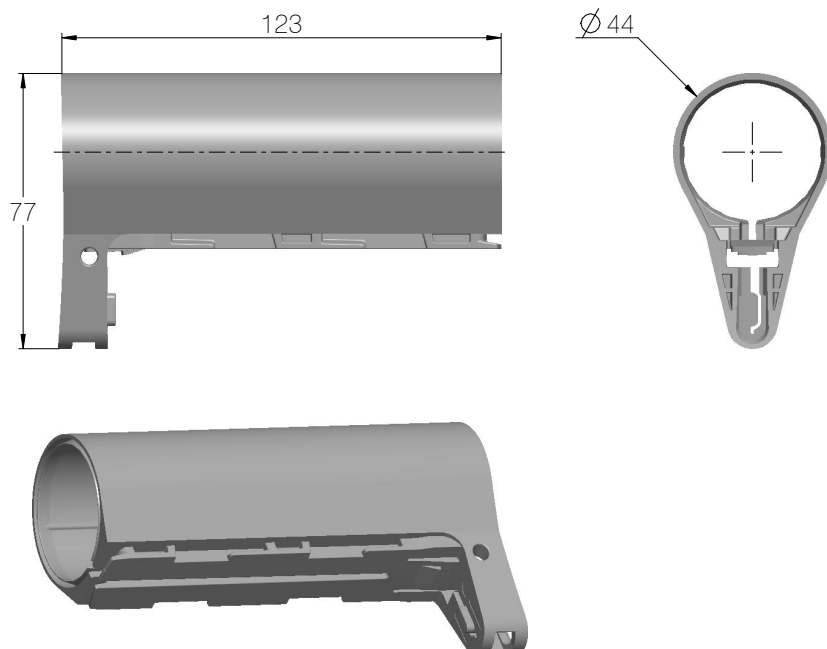


Drawing no.: 1013W4001

Mounting brackets

For mounting with LA40

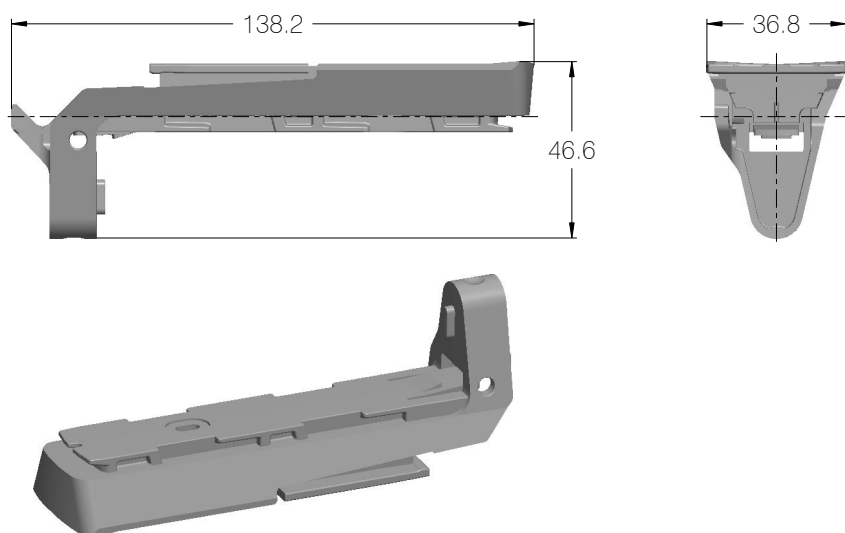
Article No.: 1015W1002



Drawing No.: 1015W4002

For mounting with LA31

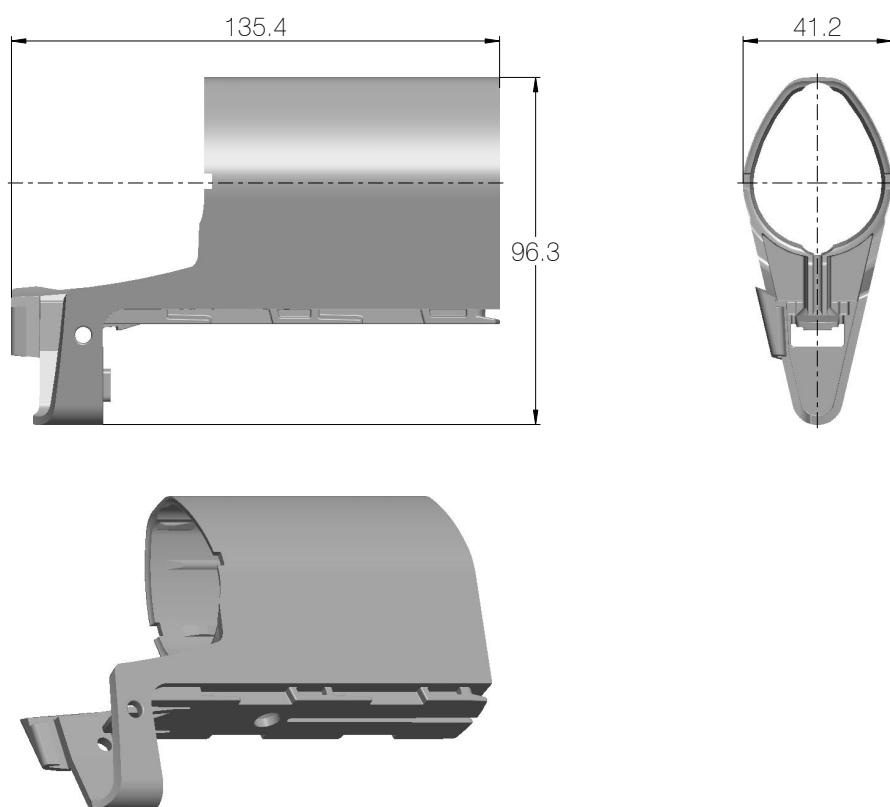
Article No.: 1015W1004



Drawing No.: 1015W4004

For mounting with LA27

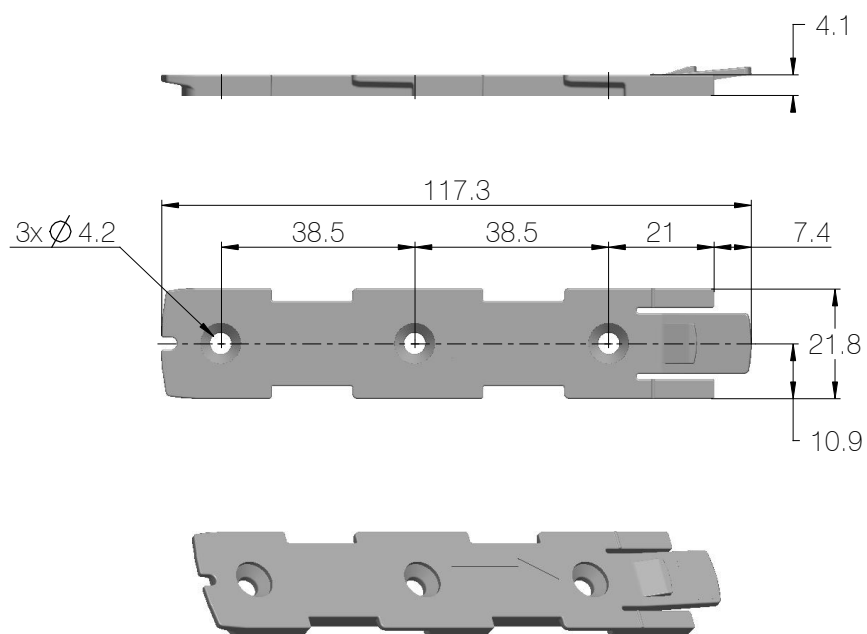
Article No.: 1015W9003



Drawing No: 1015W4003

Mounting bracket (frame flat)

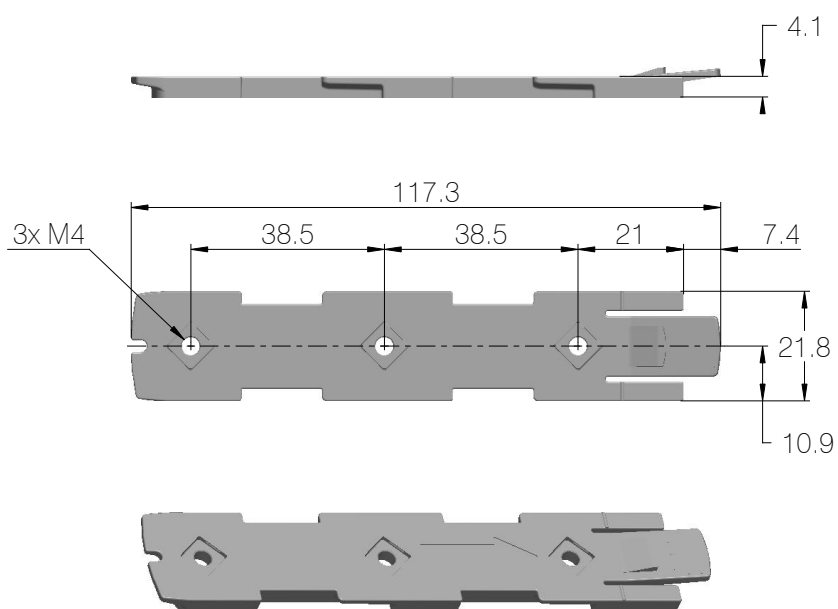
Article No. 1015W1001



Drawing No.: 1015W4001

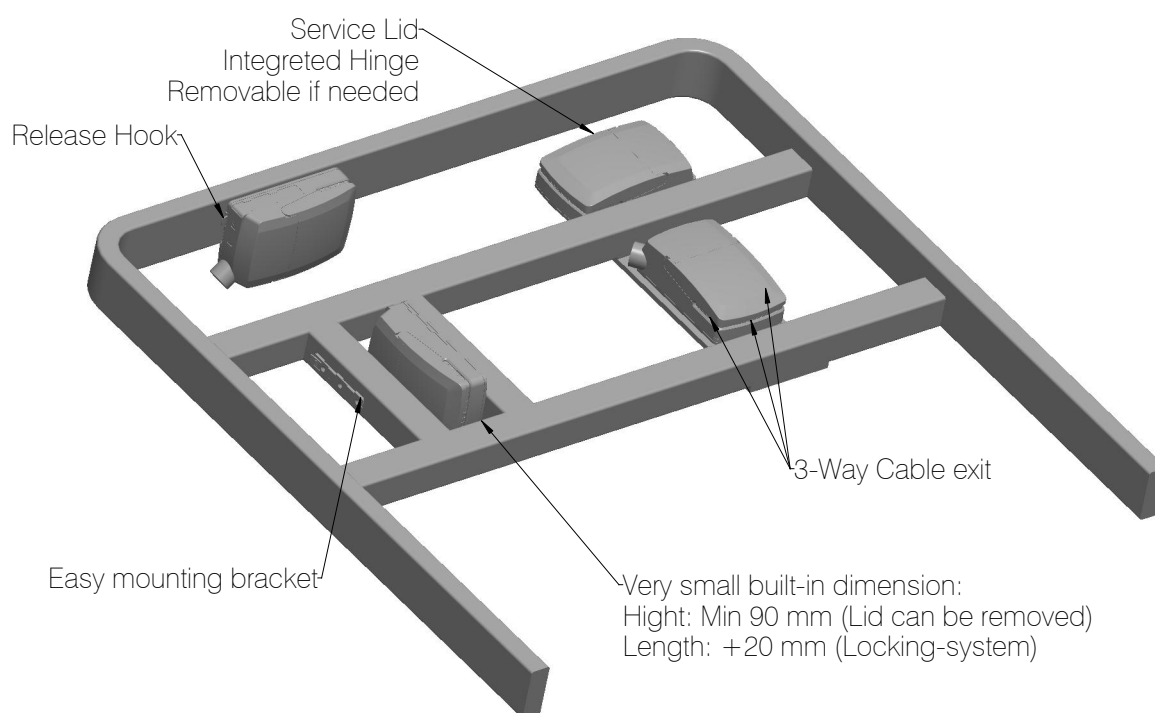
Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009



Drawing No.: 1015W4009

Mounted on frame



Drawing No.: 1013W4008

It is recommended to mount the CA30-CA40 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

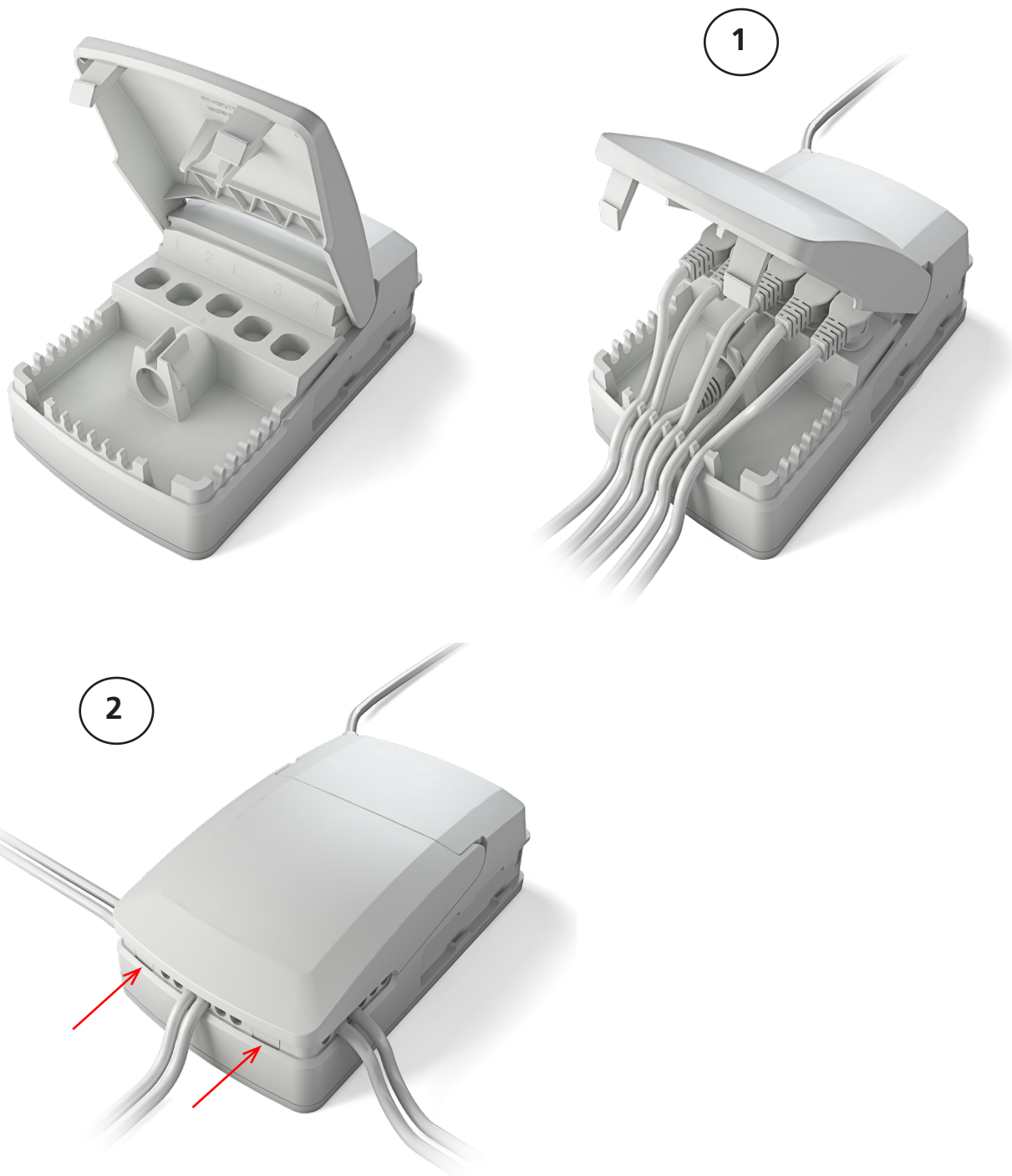
The control boxes CA30-CA40 have a uniquely designed cable lid. The lid also works as an integrated cable lock when closed.

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



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