

Control Box C071

Data Sheet



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Introduction



The LINAK control box CO71 offers a consolidated range of unprecedented features – all utilising standardised technology, interfaces and compatibility. The CO71 for LINAK actuators is intended for the control of, for example, hospital bed movement.

Equipped with 350 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 CO71, 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) 350 W power output 100-240 VAC, 50/60 Hz -15% / +10%
Mains indicator	Yes - Green LED (mains connected)
Actuator interface	4 channel 6-pin Mini-Fit
Hand control interface	1 port 10-pin modular plug
CO-Link™	Link of primary and secondary CO71 - up to 8 channels and combination of all control boxes
Bluetooth®	Yes
Battery interface	1 port 4-pin Mini-Fit (output 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	Full bridge
Duty cycle	10 % - 2/18 min. on/off continuous use. Maximum power is 350 W for 80 seconds and 175 W for 40 seconds at 25 °C.
Weight	Low weight 0.8 kg
Actuator compatibility	Actuators with signal, feedback by Hall and potentiometer
Battery charger	Battery input available No charger, but supports battery with internal charger
Charging indicator	Supported by using BA22
Acoustic warning signal	Internal buzzer
Battery alarm	Integrated or via BA19/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™
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 CO71 can reduce the output voltages to prevent overload
Safety system	Thermally protected Short-circuit protected Hot-plugging protected
Start/stop	Soft start/ direct stop
Protection class	Class 2 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

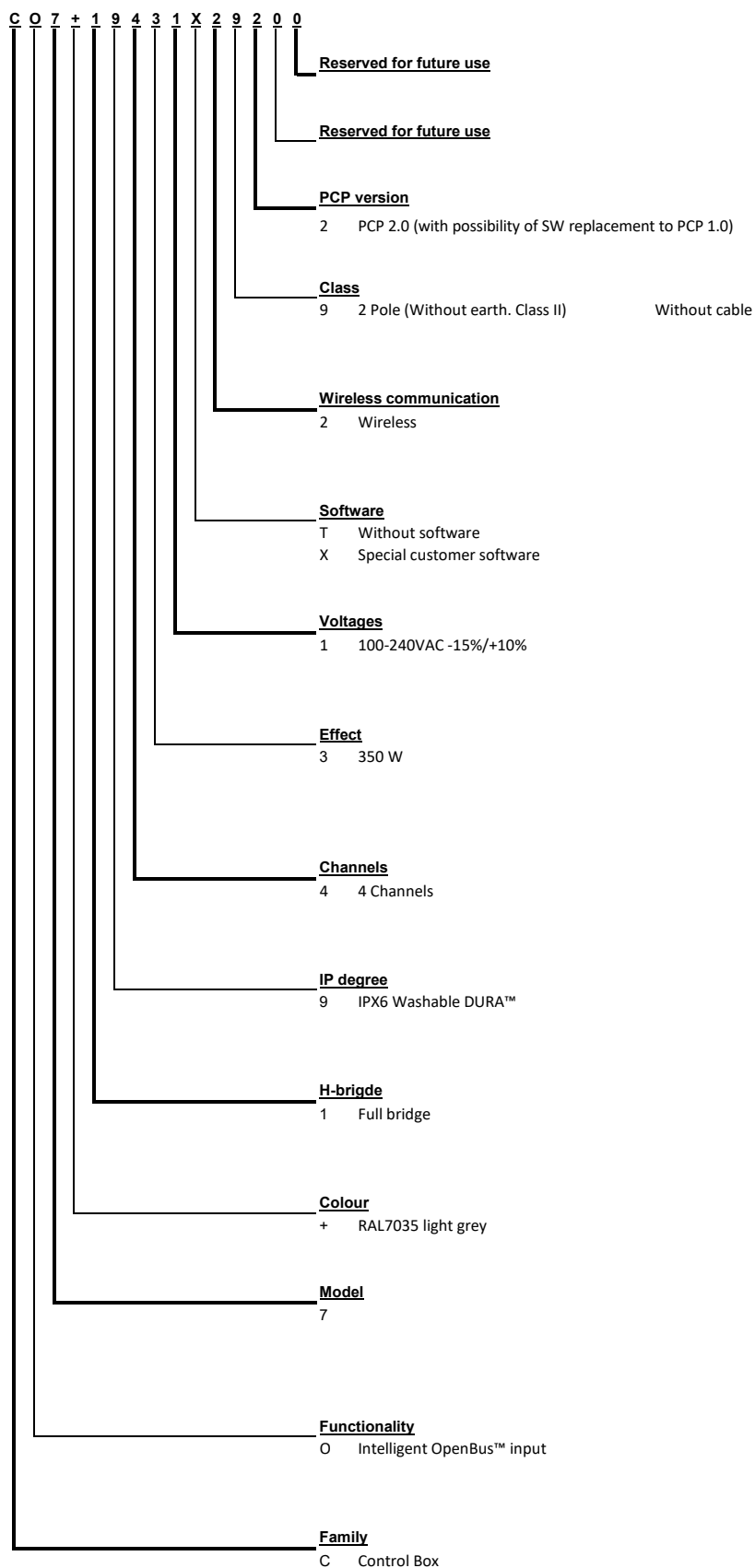
Mains supply grid should be limited to the highest prospective short circuit current of 1,500 A.

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

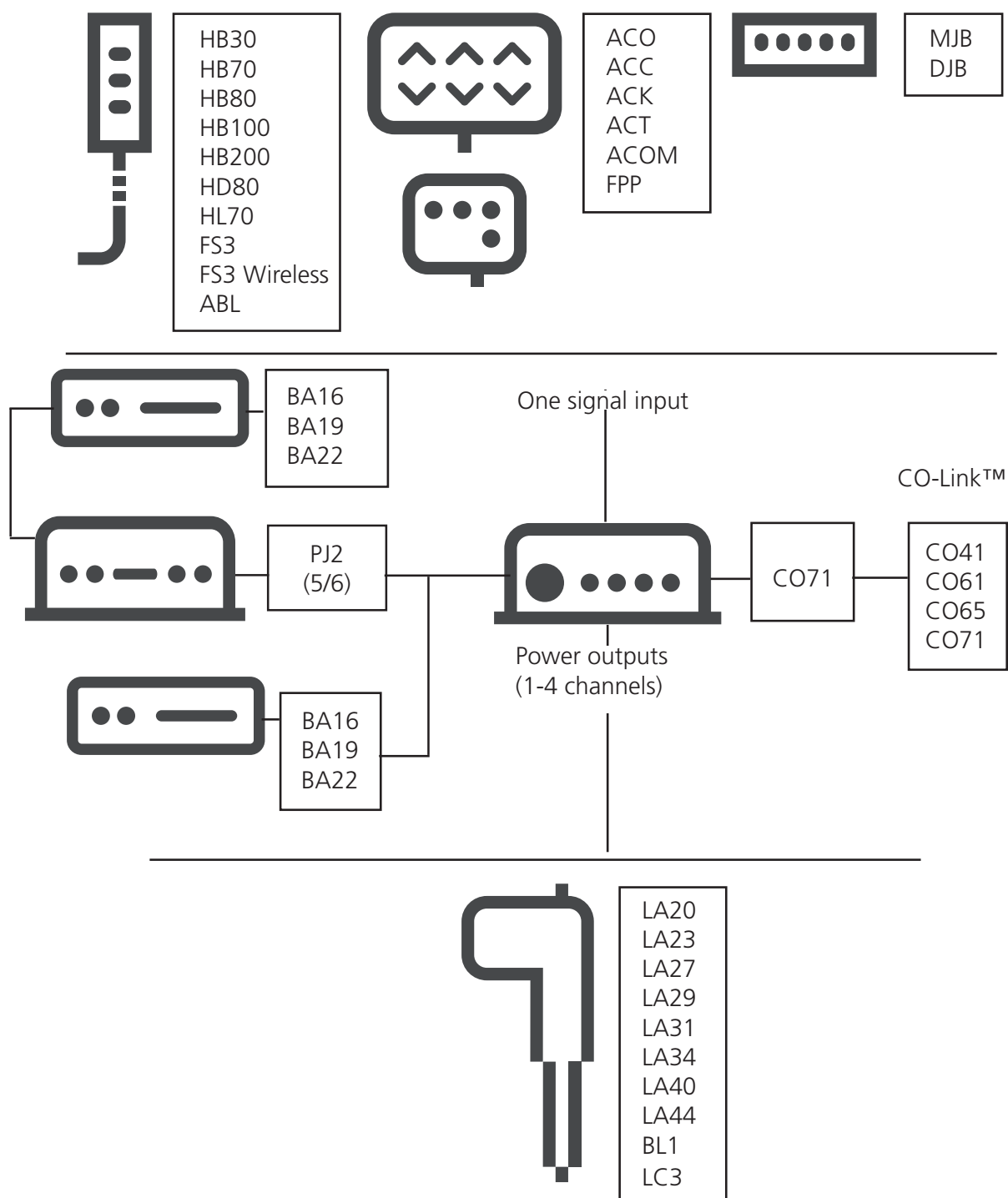
Approvals

- IEC60601-1 edition 3.1
- ANSI/AAMI ES60601-1:2005/(R) 2012
- CSA CAN/CSA-C22.2 NO. 60601-1:14
- PSE Japan

Ordering example



System overview



LED indicator



CO71 is equipped with a green LED for indication of mains power connected.

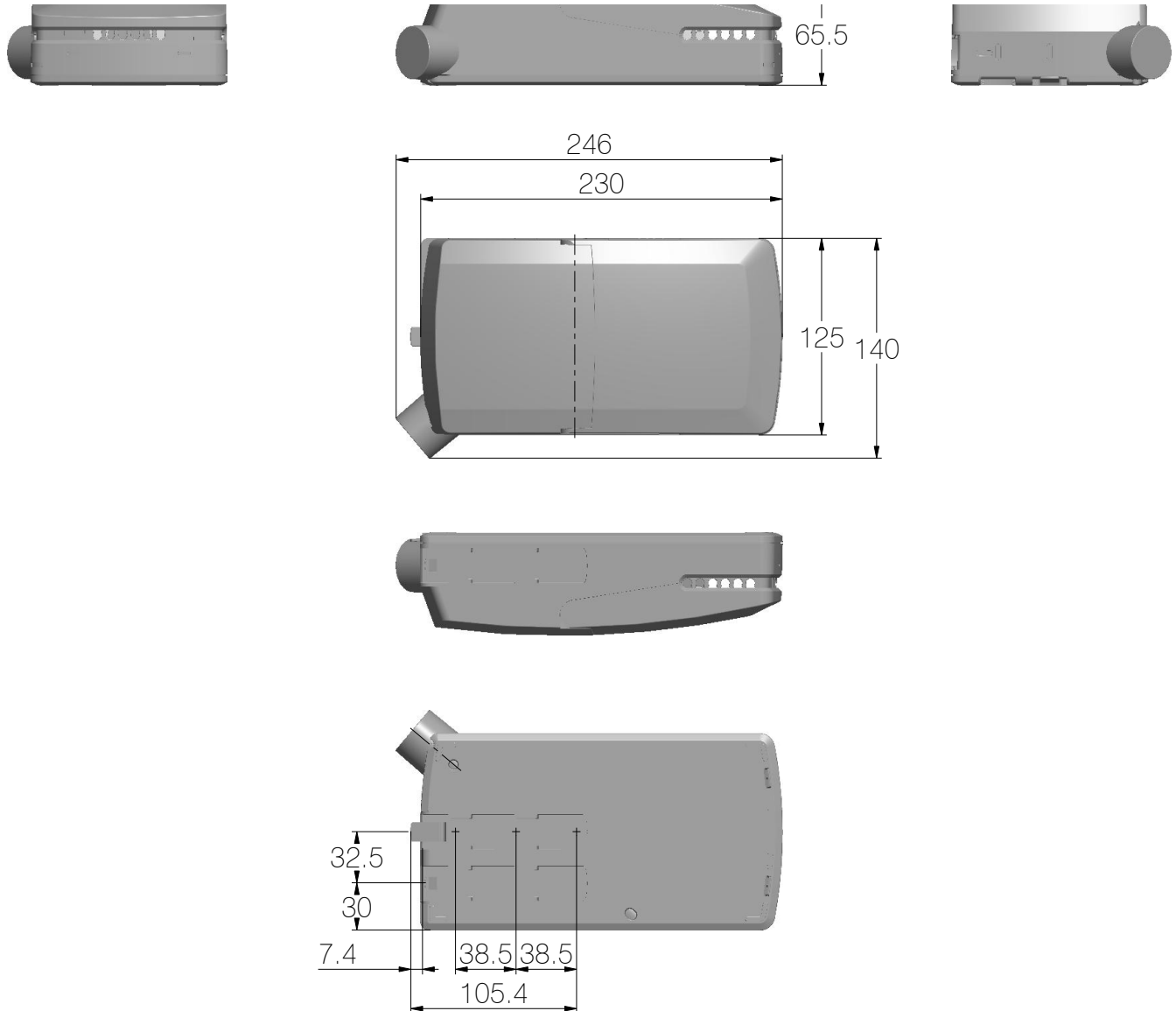
When the CO71 is connected to mains, the LED is green. Connected only to battery, the LED is off.

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

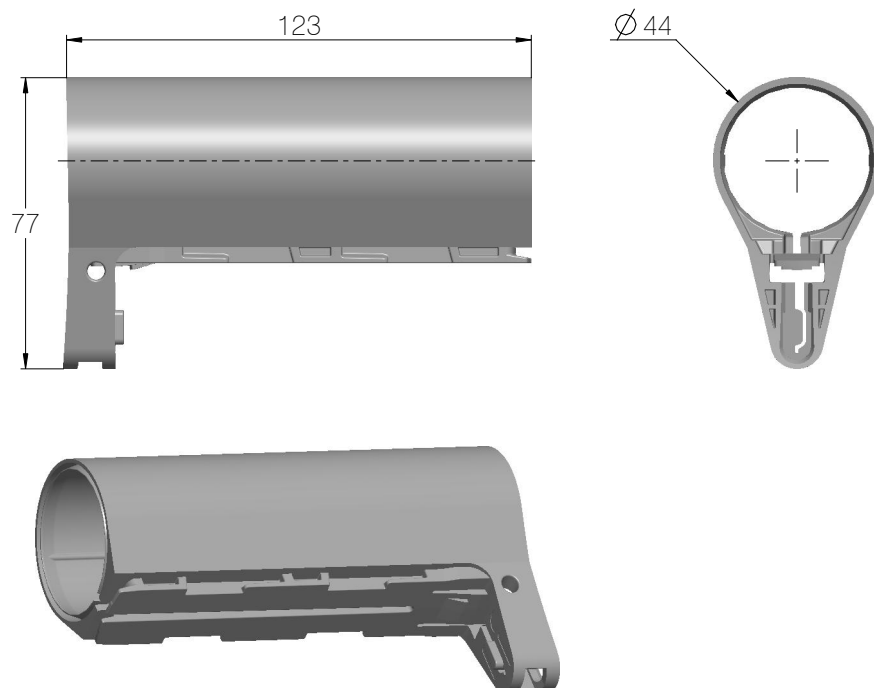


Drawing No.: 1014W4010

Mounting brackets

For mounting with LA40

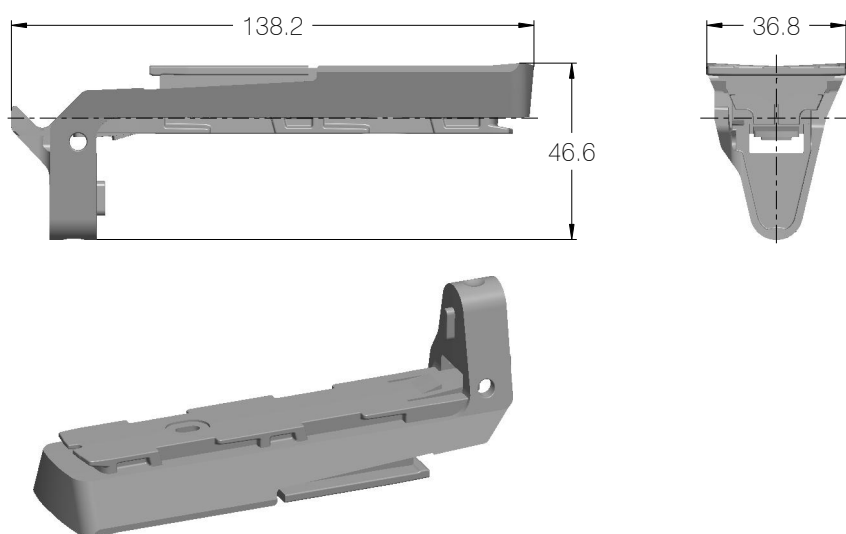
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Drawing No.: 1015W4002

For mounting with LA31

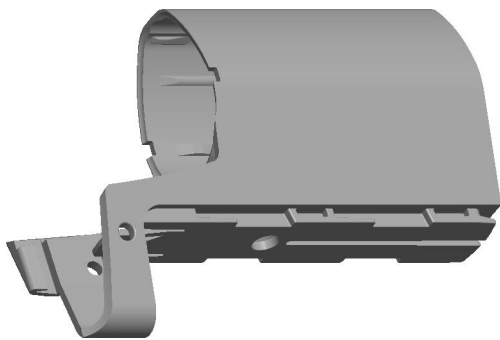
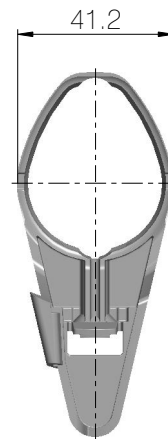
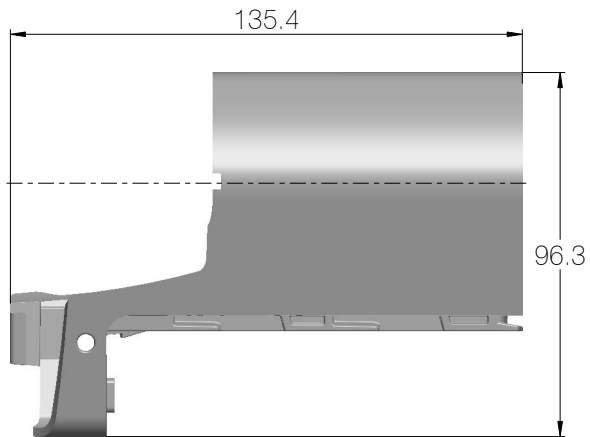
Article No.: 1015W1004



Drawing No.: 1015W4004

For mounting with LA27

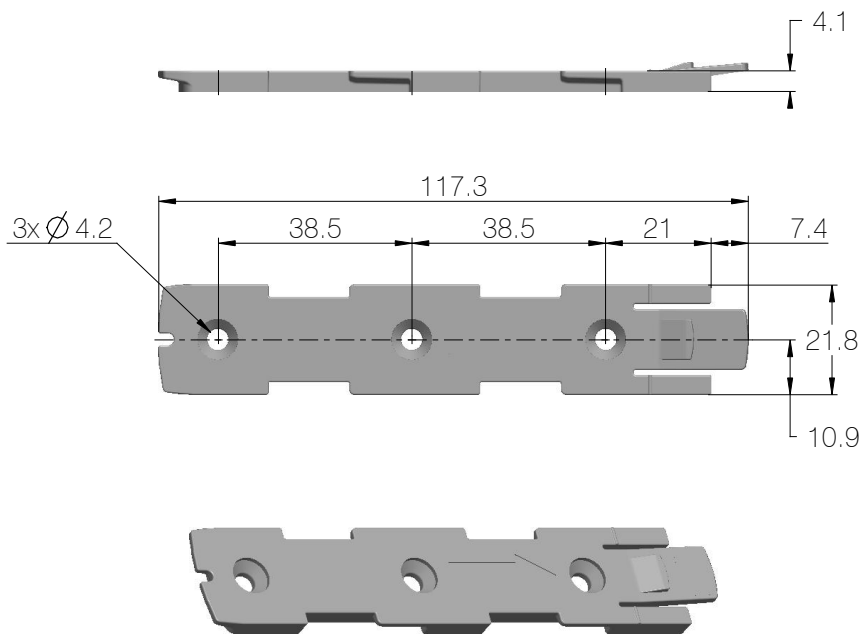
Article No.: 1015W9003



Drawing No: 1015W4003

Mounting bracket (frame flat)

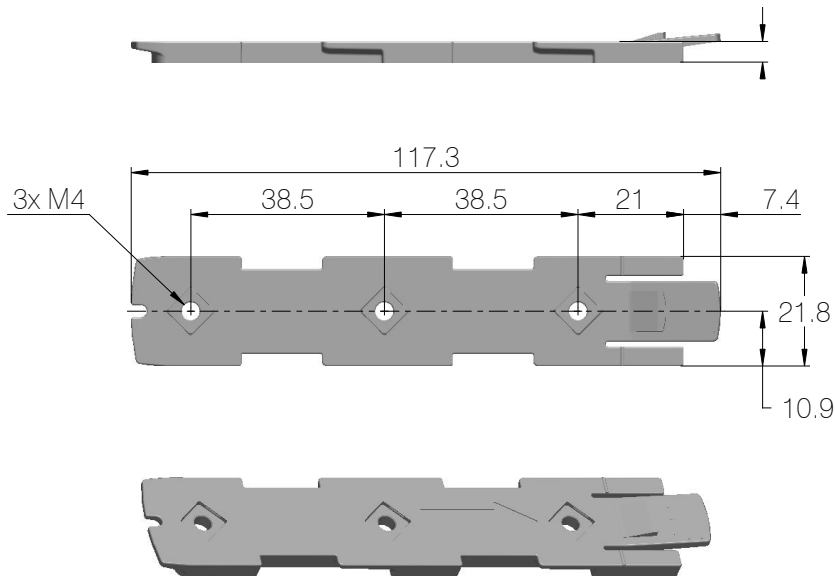
Article No. 1015W1001



Drawing No.: 1015W4001

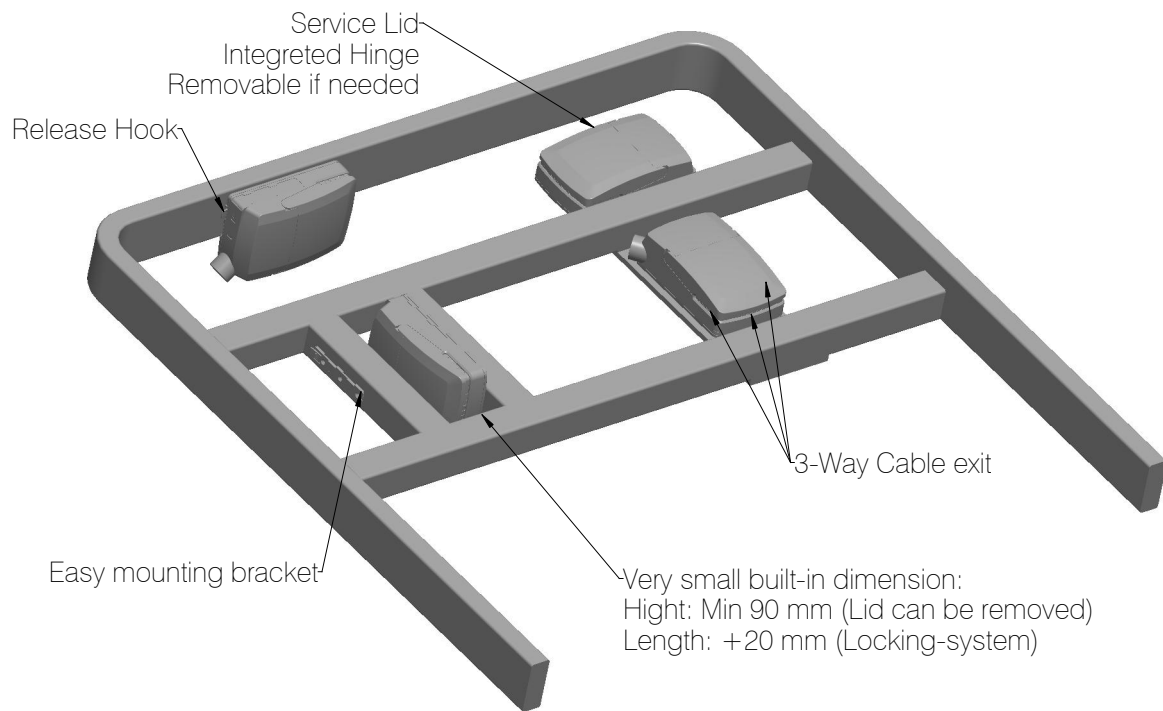
Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009



Drawing No.: 1015W4009

Mounted on frame



Drawing No.: 1013W4008

Mounting of cables and cable lock

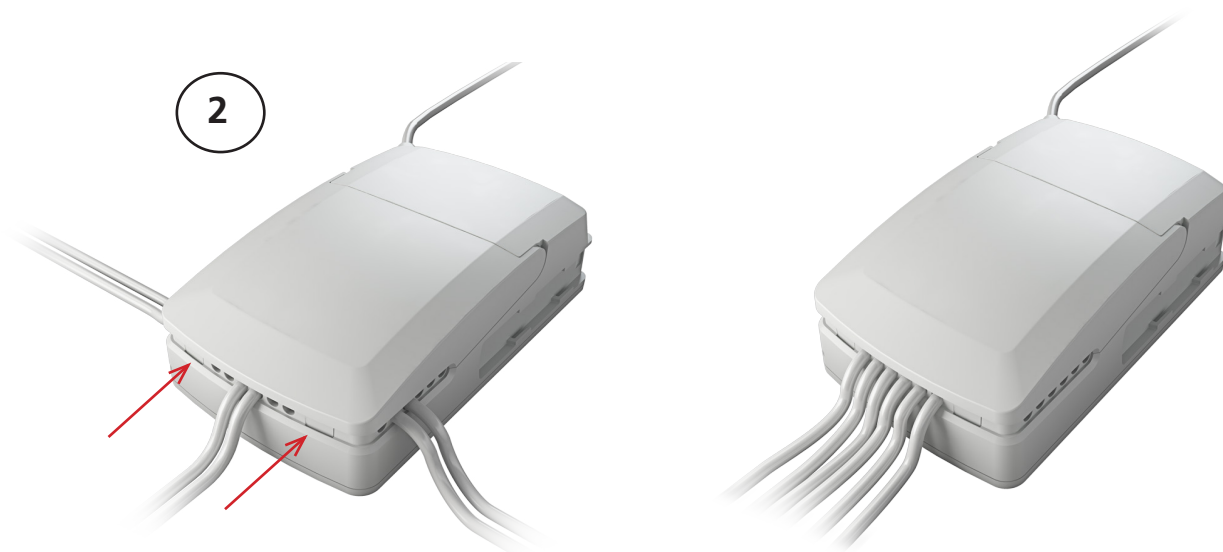
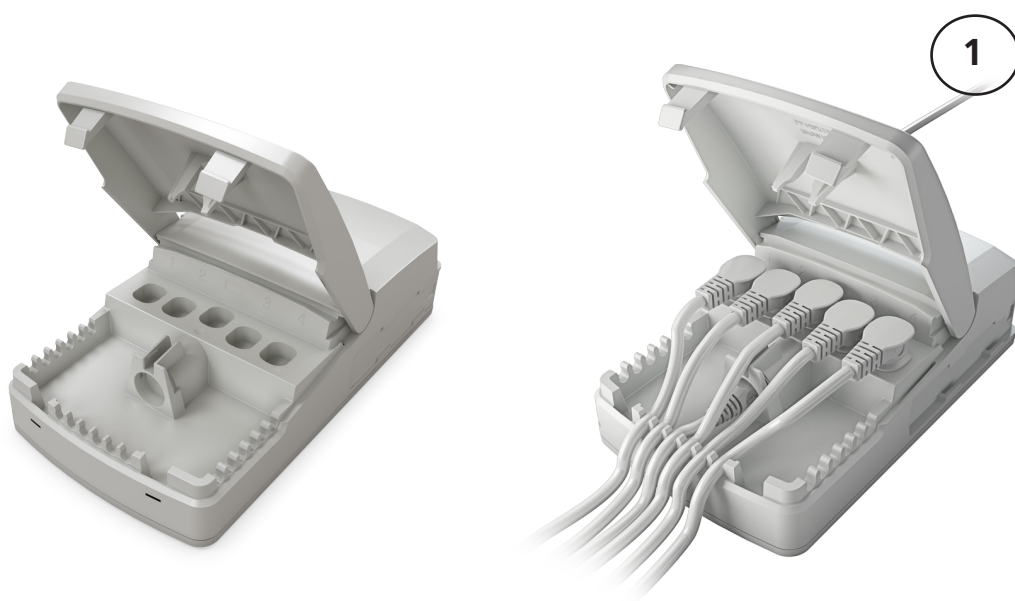
CO71 has a uniquely designed cable lid. The lid also works as an integrated cable lock when closed.

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 2x350 W (or combinations of all CO-control boxes).

A CO-Link software makes it possible to link two CO71 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 2x350 W.

All CO71 benefits and USPs including:

- 1 control – 2 x CO71
- 8 channels
- 2 x 350 W
- Standard items
- 2 x 2.85 Ah battery backup – 2 x BA22

Contacts

FACTORIES

Denmark - Headquarters

LINAK A/S

Phone: +45 73 15 15 15

Fax: +45 74 45 80 48

Fax (Sales): +45 73 15 16 13

Web: www.linak.com

China

LINAK (Shenzhen) Actuator Systems, Ltd.

Phone: +86 755 8610 6656

Phone: +86 755 8610 6990

Web: www.linak.cn

Slovakia

LINAK Slovakia s.r.o.

Phone: +421 51 7563 444

Web: www.linak.sk

Thailand

LINAK APAC Ltd.

Phone: +66 33 265 400

Web: www.linak.com

USA

LINAK U.S. Inc.

Americas Headquarters

Phone: +1 502 253 5595

Fax: +1 502 253 5596

Web: www.linak-us.com
www.linak-latinamerica.com

SUBSIDIARIES

Australia

LINAK Australia Pty. Ltd

Phone: +61 3 8796 9777

Fax: +61 3 8796 9778

E-mail: sales@linak.com.au

Web: www.linak.com.au

Austria

LINAK Zweigniederlassung - Österreich (Wien)

Phone: +43 (1) 890 7446

Fax: +43 (1) 890 744615

E-mail: info@linak.de

Web: www.linak.at - www.linak.hu

Belgium

LINAK Actuator-Systems NV/SA

(Belgium & Luxembourg)

Phone: +32 (0)9 230 01 09

E-mail: beinfo@linak.be

Web: www.linak.be - www.fr.linak.be

Brazil

LINAK Do Brasil Comércio De Atuadores Ltda.

Phone: +55 (11) 2832 7070

Fax: +55 (11) 2832 7060

E-mail: info@linak.com.br

Web: www.linak.com.br

Canada

LINAK Canada Inc.

Phone: +1 502 253 5595

Fax: +1 416 255 7720

E-mail: info@linak.ca

Web: www.linak-us.com

Czech Republic

LINAK C&S s.r.o.

Phone: +42 058 174 1814

Fax: +42 058 170 2452

E-mail: info@linak.cz

Web: www.linak.cz - www.linak.sk

Denmark - International

LINAK International

Phone: +45 73 15 15 15

E-mail: info@linak.com

Web: www.linak.com

Denmark - Sales

LINAK Danmark A/S

Phone: +45 86 80 36 11

Fax: +45 86 82 90 51

E-mail: linak@linak-silkeborg.dk

Web: www.linak.dk

Finland

LINAK OY

Phone: +358 10 841 8700

E-mail: linak@linak.fi

Web: www.linak.fi

France

LINAK France E.U.R.L

Phone: +33 (0) 2 41 36 34 34

Fax: +33 (0) 2 41 36 35 00

E-mail: linak@linak.fr

Web: www.linak.fr

Germany

LINAK GmbH

Phone: +49 6043 9655 0

Fax: +49 6043 9655 60

E-mail: info@linak.de

Web: www.linak.de

India

LINAK A/S India Liaison Office

Phone: +91 120 4531797

Fax: +91 120 4786428

E-mail: info@linak.in

Web: www.linak.in

Ireland

LINAK UK Limited (Ireland)

Phone: +44 (0)121 544 2211

Fax: +44 (0)121 544 2552

+44 (0)796 855 1606 (UK Mobile)

+35 387 634 6554 (Rep.of Ireland Mobile)

E-mail: sales@linak.co.uk

Web: www.linak.co.uk

Italy

LINAK ITALIA S.r.l.

Phone: +39 02 48 46 33 66

Fax: +39 02 48 46 82 52

E-mail: info@linak.it

Web: www.linak.it

Japan

LINAK K.K.

Phone: 81-45-533-0802

Fax: 81-45-533-0803

E-mail: linak@linak.jp

Web: www.linak.jp

Malaysia

LINAK Actuators Sdn. Bhd.

Phone: +60 4 210 6500

Fax: +60 4 226 8901

E-mail: info@linak-asia.com

Web: www.linak.my

Netherlands

LINAK Actuator-Systems B.V.

Phone: +31 76 5 42 44 40 /

+31 76 200 11 10

E-mail: info@linak.nl

Web: www.linak.nl

New Zealand

LINAK New Zealand Ltd

Phone: +64 9580 2071

Fax: +64 9580 2072

E-mail: nzsales@linak.com.au

Web: www.linak.com.au

Norway

LINAK Norge AS

Phone: +47 32 82 90 90

E-mail: info@linak.no

Web: www.linak.no

Poland

LINAK Polska

LINAK Danmark A/S (Spółka Akcyjna)

Phone: +48 22 295 09 70 /

+48 22 295 09 71

E-mail: info@linak.pl

Web: www.linak.pl

Republic of Korea

LINAK Korea Ltd.

Phone: +82 2 6231 1515

Fax: +82 2 6231 1516

E-mail: info@linak.kr

Web: www.linak.kr

Slovakia

LINAK Slovakia S.R.O.

Phone: +421 51 7563 444

Web: www.linak.sk

Spain

LINAK Actuadores, S.L.u

Phone: +34 93 588 27 77

Fax: +34 93 588 27 85

E-mail: esma@linak.es

Web: www.linak.es

Sweden

LINAK Scandinavia AB

Phone: +46 8 732 20 00

Fax: +46 8 732 20 50

E-mail: info@linak.se

Web: www.linak.se

Switzerland

LINAK AG

Phone: +41 43 388 31 88

Fax: +41 43 388 31 87

E-mail: info@linak.ch

Web: www.linak.ch - www.fr.linak.ch

www.it.linak.ch

Taiwan

LINAK (Shenzhen) Actuator systems Ltd.

Taiwan Representative office

Phone: +886 2 272 90068

Fax: +886 2 272 90096

E-mail: sales@linak.com.tw

Web: www.linak.com.tw

Turkey

LINAK İth. İhr. San. ve Tic. A.Ş.

Phone: +90 312 4726338

Fax: +90 312 4726635

E-mail: info@linak.com.tr

Web: www.linak.com.tr

United Kingdom

LINAK UK Limited

Phone: +44 (0)121 544 2211

Fax: +44 (0)121 544 2552

E-mail: sales@linak.co.uk

Web: www.linak.co.uk

DISTRIBUTORS

Argentina

Novotec Argentina SRL

Phone: 011-4303-8989 / 8900

Fax: 011-4032-0184

E-mail: info@novotecargentina.com

Web: www.novotecargentina.com

Colombia

MEM Ltda

Phone: +[57] (1) 334-7666

Fax: +[57] (1) 282-1684

E-mail: servicioalcliente@memltda.com.co

Web: www.mem.net.co

India

Mechatronics Control Equipments India Pvt Ltd

Phone: +91-44-28558484, 85

E-mail: bala@mechatronicscontrol.com

Web: www.mechatronicscontrol.com

Indonesia

PT. Himalaya Everest Jaya

Phone: +6 221 544 8956 /+6 221 544 8965

Fax: +6 221 619 1925

Fax (Sales): +6 221 619 4658

E-mail: hejplastic-div@centrin.net.id

Web: www.hej.co.id

Israel

NetivTech LTD

Phone: +972 55-2266-535

Fax: +972 2-9900-560

Email: info@NetivTech.com

Web: www.netivtech.com

Singapore

Servo Dynamics Pte Ltd

Phone: +65 6844 0288

Fax: +65 6844 0070

E-mail: servodynamics@servo.com.sg

South Africa

Industrial Specialised Applications CC

Phone: +27 011 466 0346

E-mail: gartht@isagroup.co.za

Web: www.isaza.co.za

United Arab Emirates

Mechatronics

Phone: +971 4 267 4311

Fax: +971 4 267 4312

E-mail: mechtron@emirates.net.ae

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