Control Box CO71

Data Sheet



Contents

Introduction **3**
Features and options **4**
Ordering example **7**
Approvals and certifications **8**
System overview **9**
LED indicator **10**
Acoustic signal functionality **10**
Dimension drawing **11**
Mounting brackets **12**
For mounting with KA30 12
Mounting brackets **13**
For mounting with LA40 13
For mounting with LA31 13
For mounting with LA27 14
Mounting bracket (frame flat) 15
Mounting bracket (frame flat) w/M4 nuts 15
Mounted on frame 16
Mounting of cables and cable lock 17
Cable management 17
CO-Link™ **18**
Tools **18**
Contacts **19**

Introduction



The LINAK OpenBus™ 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, full bridge, IPX6 Washable DURA™ protection and a PCP 2.0 battery port, are all standard options. The entire product platform supports the LINAK principle 'One World – One box' – worldwide operable and applicable.

WeAssist™ ready

Easily integrated into the WeAssist system solution – smart and intuitive wheel technology for intelligent hospital bed manoeuvrability, enhancing patient care and operational efficiency.

Features and options

Features	CO71
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®	Bluetooth low energy Gen2 Performance (wireless control) as standard
Programming	Via PB31.
RAPID	For CO71 Gen2 Bluetooth Performance only: LINAK Operating System (LOS): Maintained and operated by LINAK. Customer Application Software (CAS): Built on LOS and tailored to meet specific customer requirements. Customers will be notified of any changes to LOS. Modifications to CAS will only be made following prior written approval from customer.
Service tools	OneConnect for Windows OneConnect for IOS OneConnect for Android See more under tools.
Battery interface	1 port 4-pin Mini-Fit (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	Full bridge technology: independent actuator movement
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	PCP 2.0
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	The control box features an integrated cable lock for actuator, PCP and OpenBus cables. For more details see section "mounting of cables and cable lock" below.
Mounting	Compatible with a wide range of mounting brackets
WeAssist	Compatible

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

Product Type	**C**	**C**	=	Control Box	
Handset Input	**O**	**O**	=	Openbus Interface	
Control Box Family	**7**	**7**	=	CO71	
Colour	**+**	**+**	=	RAL7035 light gray	
H-Bridge	**1**	**1**	=	Full Bridge	
IP Degree	**9**	**9**	=	IPX6 Washable DURA™	
Number of Channels	**4**	**4**	=	4 Channels	
Maximum Output Power	**3**	**3**	=	350 W (CO71)	
Input Voltage	**1**	**1**	=	100-240 VAC +10 % / -15 %	
Software	**T**	**T**	=	No Application Software	**X** = Special Customer Software
Wireless Communication	**4**	**4**	=	Bluetooth® Gen2 Performance	
Appliance Protection Class	**9**	**9**	=	Class II	
Option	**2**	**2**	=	PCP 2.0	
Cable(s)	**0**	**0**	=	Socket W/O Ground	
Not Used	**0**	**0**	=	Not Used	

CO7+19431T49200

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: CO71

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

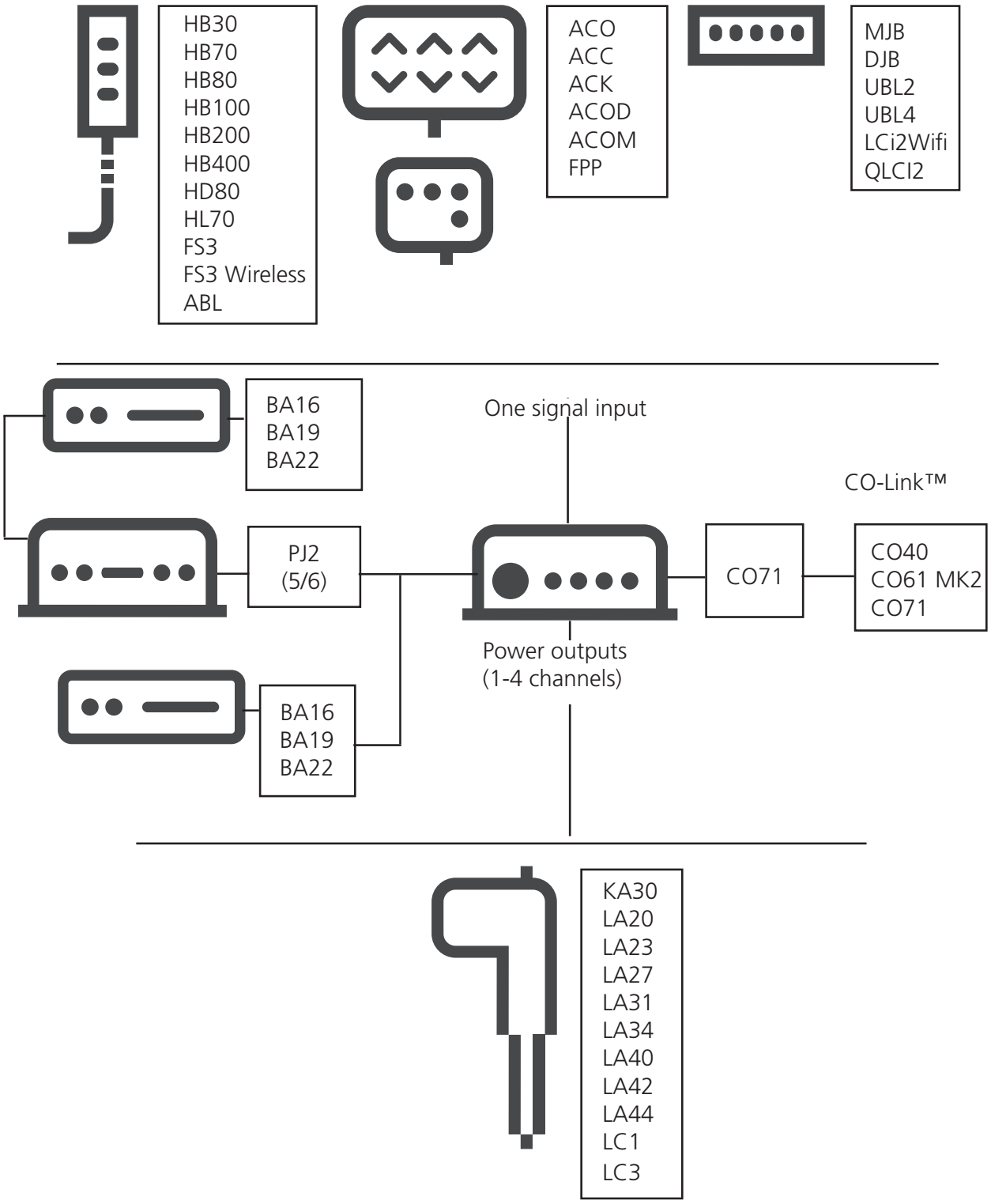
Listed LINAK item for application approval: COS**S*SS**SS*S

" * " 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



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

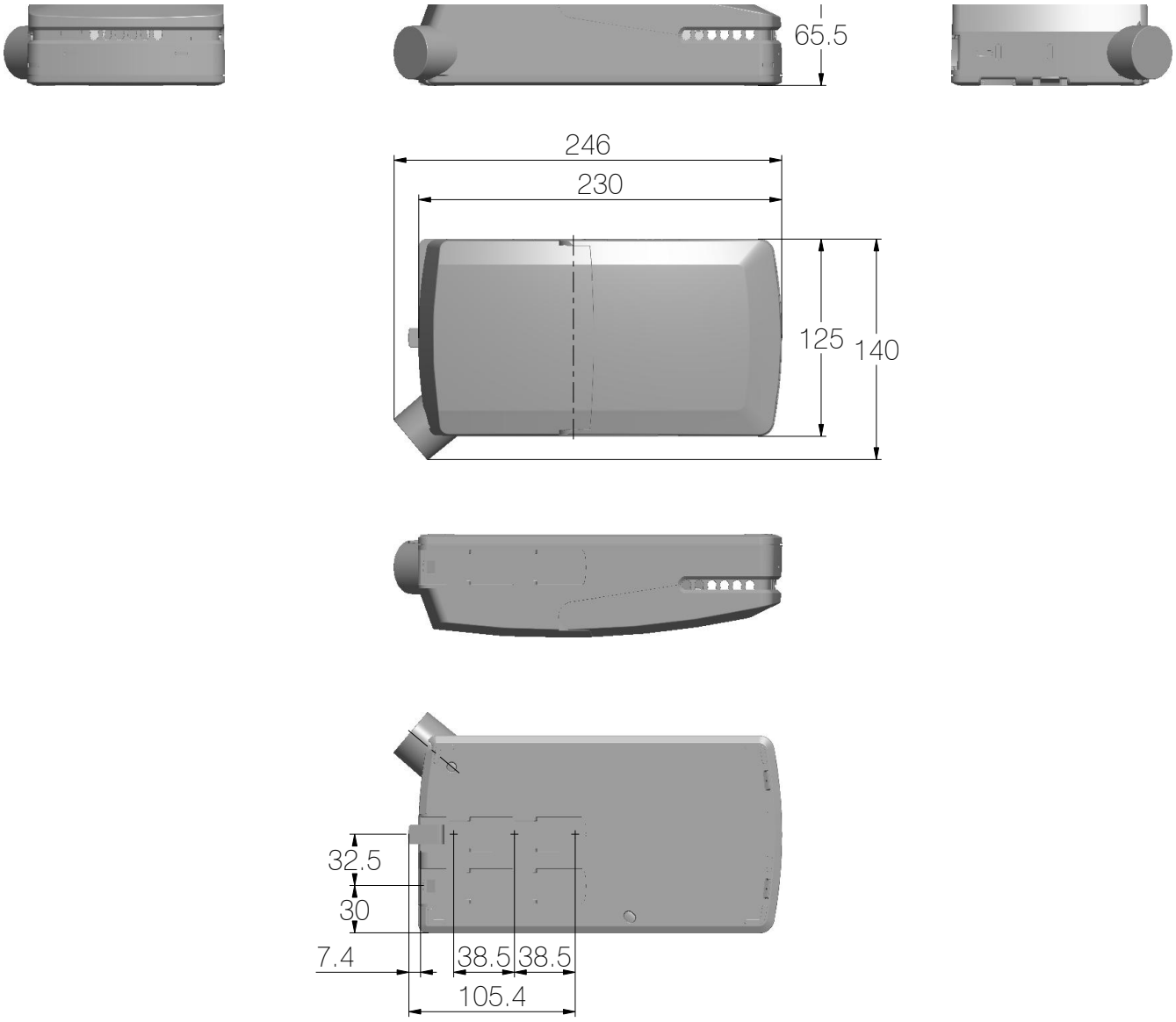
When the CO71 is connected to mains, the LED is green. Connected only to battery, the LED is off.

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

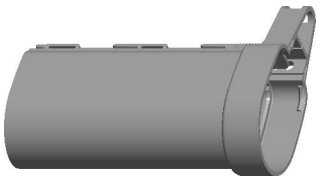


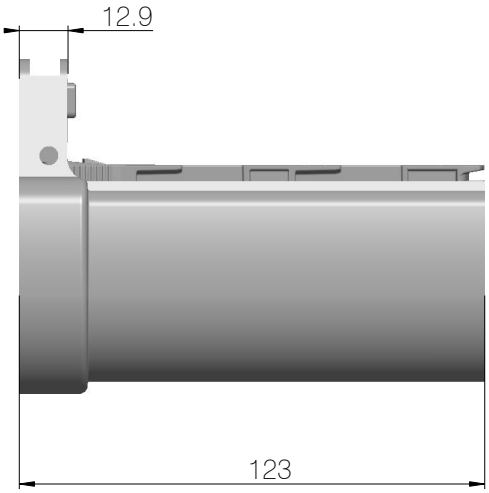
Drawing No.: 1014W4010

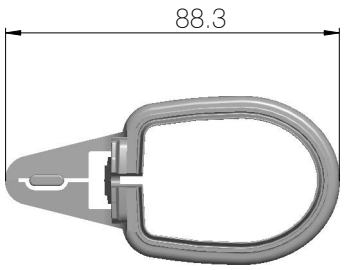
Mounting brackets

For mounting with KA30

Article No.: 1015W1011







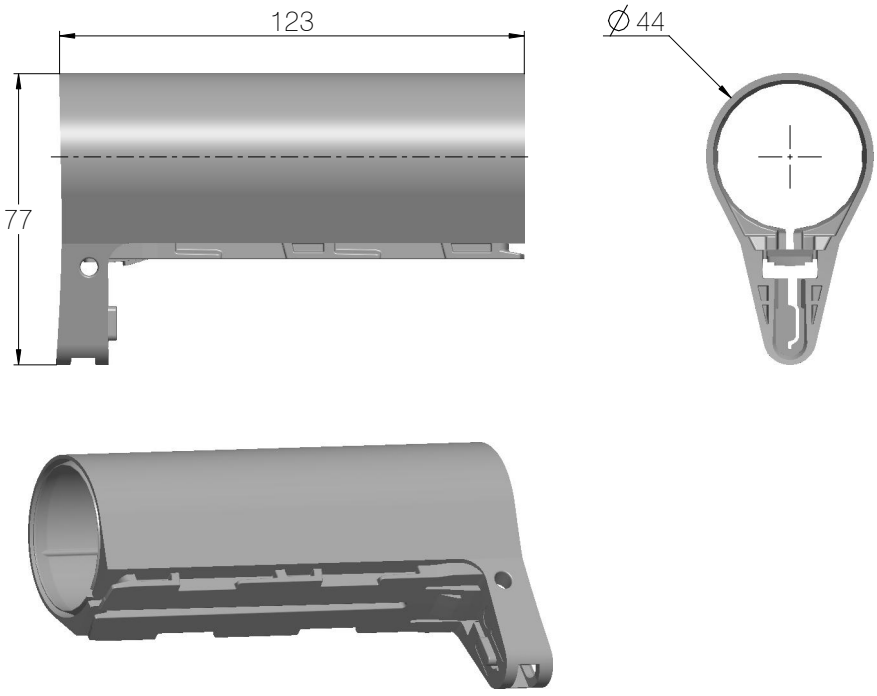


Drawing no.: 1015W4022

Mounting brackets

For mounting with LA40

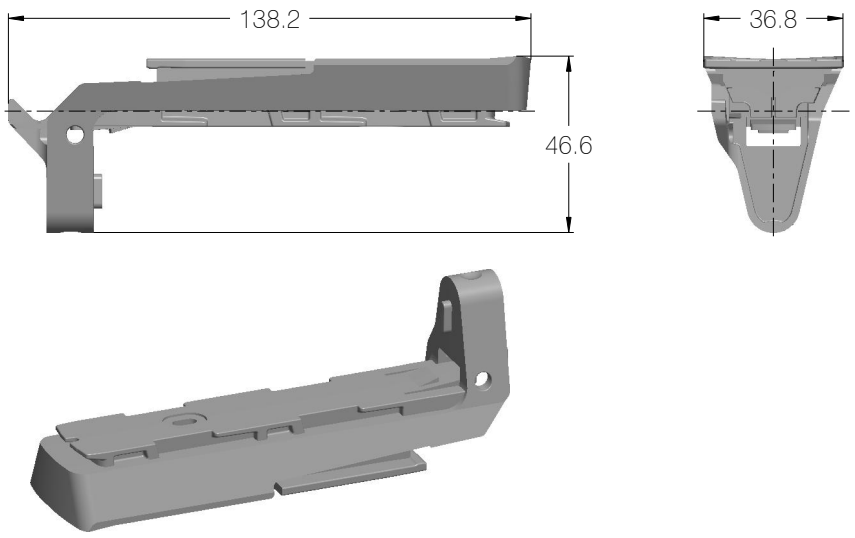
Article No.: 1015W1002



Drawing No.: 1015W4002

For mounting with LA31

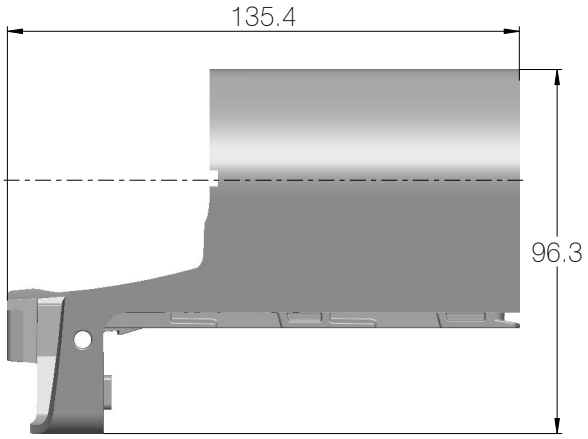
Article No.: 1015W1004

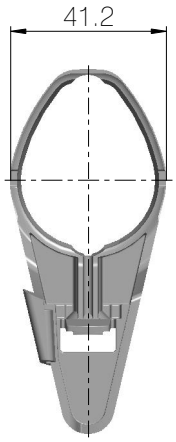


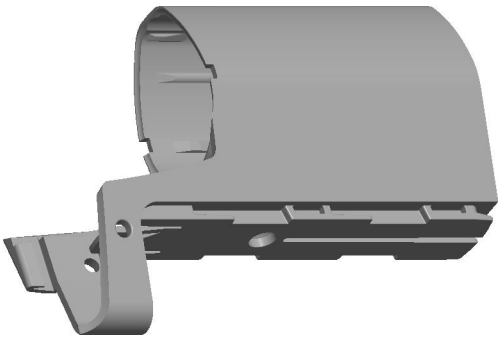
Drawing No.: 1015W4004

For mounting with LA27

Article No.: 1015W9003



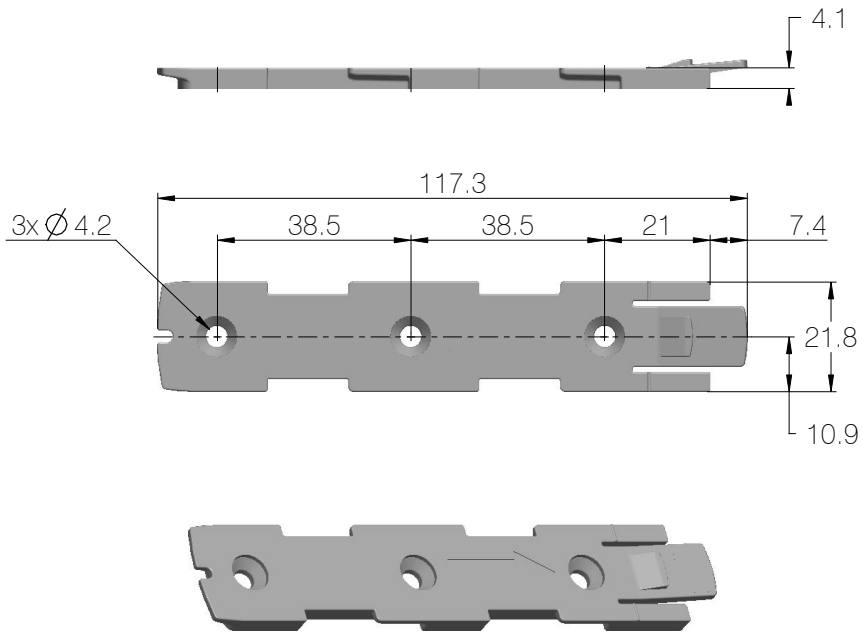




Drawing No: 1015W4003

Mounting bracket (frame flat)

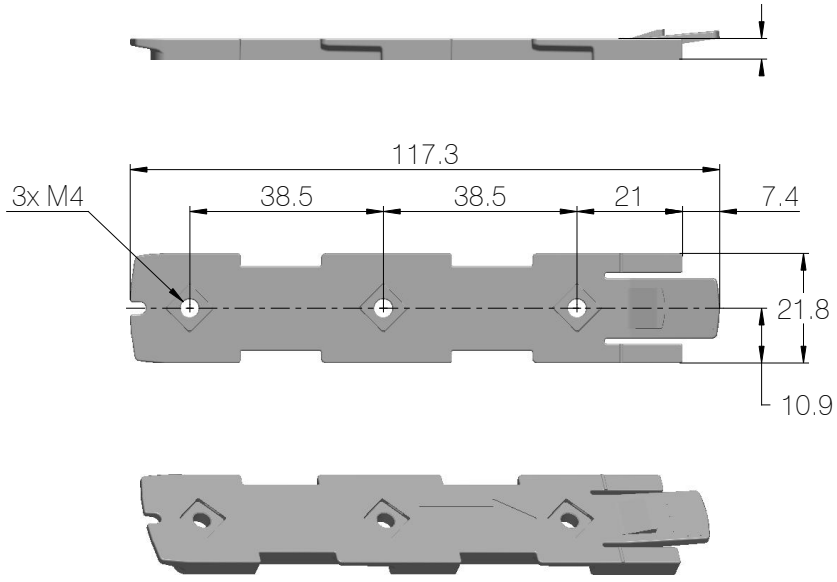
Article No. 1015W1001



Drawing No.: 1015W4001

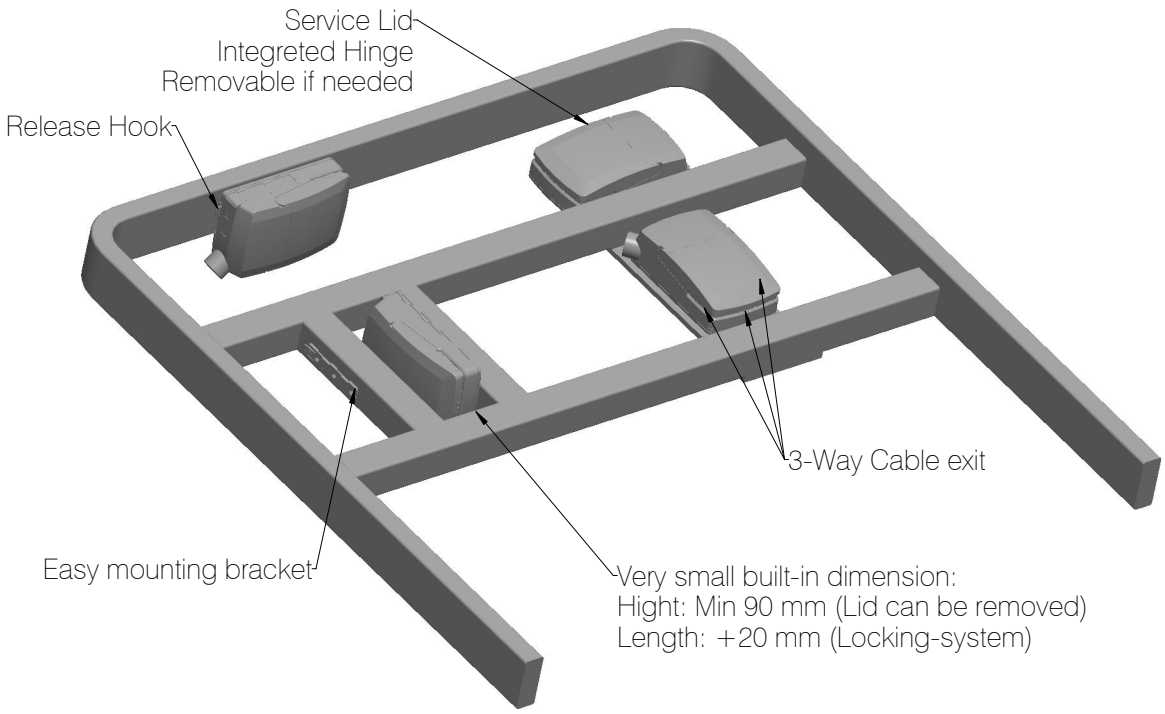
Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009



Drawing No.: 1015W4009

Mounted on frame



Drawing No.: 1013W4008

Mounting of cables and cable lock

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

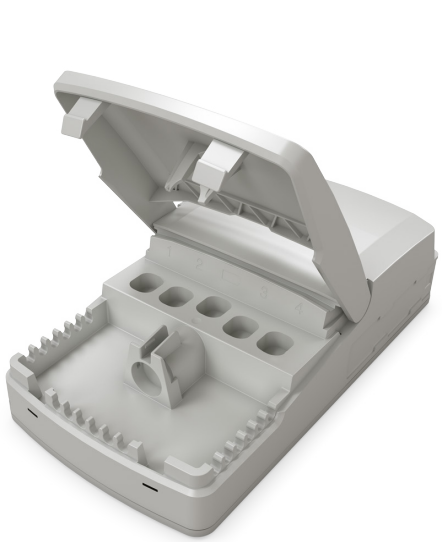
1. Mount cable plugs in control box
2. Close lid until lock snaps into place (see arrows)

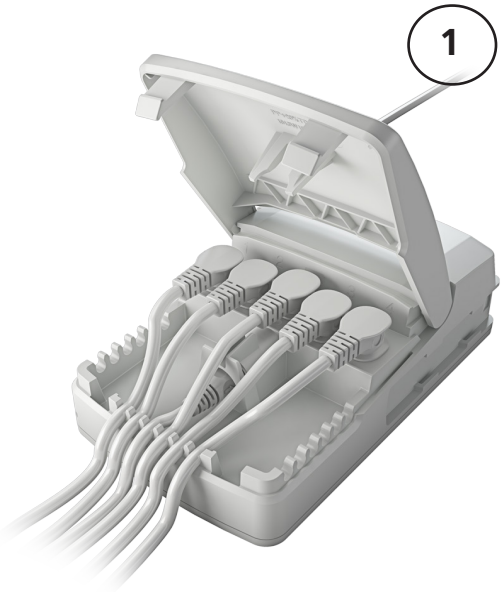
To allow free access to the cables, the lid has a rest position when completely opened.

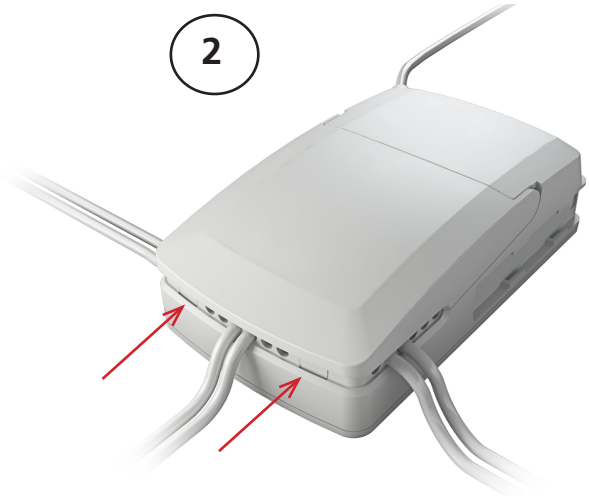
It is possible to remove the lid by lifting it a few degrees and pulling it away from the housing under tight mounting conditions.

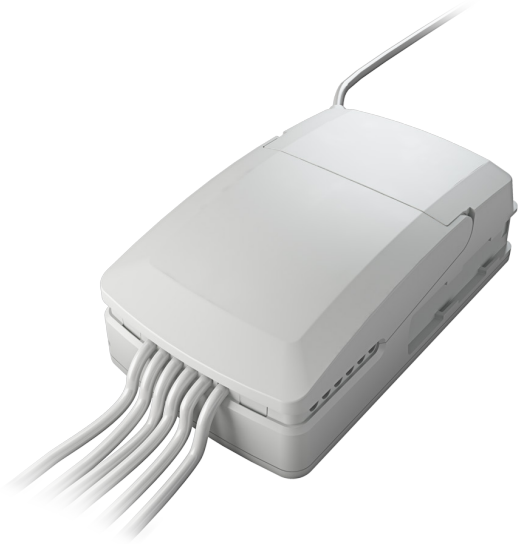
3. The mains cable for this control box features an integrated cable lock.
4. These cable locks helps to prevent unintended disconnection, supports reliable operation, and ensures mains port remains sealed during cleaning and ingress protection testing for 60601-1 (e.g. IPX6 Washable DURA™).
5. These cable locks are designed to be only removable using a tool.

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

Tools

With OneConnect it is possible to read out service data from the control box and connected accessories.

Visit the link below for more details on OneConnect:

https://www.linak.com/segments/medline-careline/oneconnect/

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 (Spólka 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
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

Terms of Use

LINAK® takes great care to provide accurate and up-to-date information about its products. However, it is the responsibility of the user to determine the suitability of LINAK products for any specific application. Due to ongoing product development, LINAK products are subject to continuous modifications and changes. LINAK reserves the right to make such modifications, updates, and changes without prior notice. For this reason, LINAK cannot guarantee the accuracy or current status of printed information about its products.

LINAK makes every effort to fulfil orders. However, due to the factors described above, LINAK cannot guarantee the availability of any particular product at any given time. LINAK also reserves the right to discontinue the sale of any product displayed on its website, in catalogues, or in other written materials issued by LINAK or its affiliated companies.
All sales are subject to the applicable terms and conditions of sale and delivery available on LINAK websites.
LINAK and the LINAK logotype are registered trademarks of LINAK A/S. All rights reserved.

Copyright® LINAK • 2026-09 • LIT-62-02-047 H

WE IMPROVE YOUR LIFE