# Modular Junction Box MJB5 Plus
# Under Bed Light (int.) and Switch Input (S1/S2)
# **Data Sheet**



## Contents

**Introduction** ..... 3
**MJB5 Plus versions 505-010 and 505-020** ..... 3
**Features and options** ..... 3
**Usage** ..... 3
**Ordering example** ..... 4
**Approvals and certifications** ..... 5
**Standard functionality** ..... 6
**OpenBus™ standard configuration** ..... 6
**Power request variants** ..... 7
**Dimensions** ..... 7
**Cable and accessory overview** ..... 8
**Contacts** ..... 9

## Introduction

The modular junction box MJB5 Plus is designed for use together with OpenBus™ control boxes.

The MJB5 Plus makes it possible to connect multiple hand controls and attendant controls. It can even be used for charging or to connect the Under Bed Light and 3rd party products.

The compact design and in-line cable management makes it easy to integrate in a wide range of healthcare applications like hospital beds, surgery tables and treatment chairs.

The MJB5 Plus offers IPX6 Washable DURA™ and is the perfect match for the OpenBus control box platform. IPX6 Washable DURA helps prolong the lifetime and makes the system ready for wash tunnels and high-pressure wash down.

## MJB5 Plus versions 505-010 and 505-020

The MJB5 Plus is a modular junction box with 3 different options, Under Bed Light (UBL) and 2 different switch inputs, S1 and S2, which can be used for an external switch.



**UBL**

The MJB5 Plus with UBL gives a guiding light when the patient leaves the bed and makes it easy to find the way back to bed at night without disturbing other patients. The MJB5 Plus has an LED integrated in the MJB5 Plus housing which makes it easy to use. **External Switch (S1/S2)**

It is possible for the customer to connect a switch directly to the MJB5 Plus. This can be used with a customised switch or control.

## Features and options

| | |
|---|---|
| Connections: | Up to 4 controls of various types with modular jack plug |
| Colour: | Light Grey RAL 7035 |
| Protection class: | IPX6 Washable DURA™ |
| Current consumption: | VBus 8V = 9.3 mA<br>V Permanent 40V = 2.3 mA |
| Current consumption: | V bus 8V: 9 mA<br>V permanent 40V: 14 mA |

## Usage

| | |
|---|---|
| Compatibility: | All OpenBus products |
| Operation temperature: | +5 °C to +40 °C |
| Storage temperature: | -10 °C to +50 °C |
| Relative humidity: | 20% to 80% – non-condensing |
| Atmospheric pressure: | 700 to 1060 hPa |
| Meters above sea level: | Max. 3000 meters |
| Latex free: | Yes |
| Approvals: | IEC60601-1<br>ANSI/AAMI ES60601-1<br>CAN/CSA-22.2 No 60601-1 |

# Ordering example

| | MJB | | |
|---|---|---|---|
| Special/Standard code no. | 000 | 000 = | Port repeater box (without functionality) |
| | | 502 = | SMPS 4W (Switch Mode Power Supply) |
| | | 504 = | Gateway |
| | | 505 = | UBL (Internal) / Switch input (S1 + S2) |
| | | 506 = | UBL (External) / Switch input (S1 + S2) |
| | | 509 = | Analogue to OPENBUS™ Converter |
| No. of OPENBUS™ connections | 4 | 1 = | For standard code: 502 (Ports: 1=OB, 2=third party)<br>For standard code: 504 (Ports: 1=OB, 5=Third party) |
| | | 3 = | For standard code 000: 3 ports |
| | | 4 = | For standard code 000: 4 ports<br>For standard code: 505, 506 & 509 |
| | | 5 = | For standard code 000: 5 ports |
| Configuration Number | 000 | 000 = | Port repeater box (without functionality) |
| | | 001-099 = | Standard configuration |
| | | 100-999 = | Special configuration |
| Not used | - | - = | Not used |
| Colour | 1 | 1 = | Light grey (RAL 7035) |
| HardWare version | 0 | 0 = | No Power request |
| | | 1 = | HW-variant with power request on all ports where it is possible |
| | | 2 = | HW-variant with power request on port 2 (Only for MJB509) |
| | | 3 = | HW-variant with power request on port 4 & 5 (Only for MJB509) |
| IP Degree | 2 | 2 = | IPX6 |
| | | 9 = | IPX6 Washable DURA™ |
| Cable | 3 | 3 = | No cable |
| | Chosen item number: | | MJB0004000-1023 |

Modular plug cable for connection of OpenBus™ control box to MJB5 Plus has to be ordered separately. Please remember to order DURA cable and blind plug if IP degree IPX6 Washable DURA™ is required.

## 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: MJB

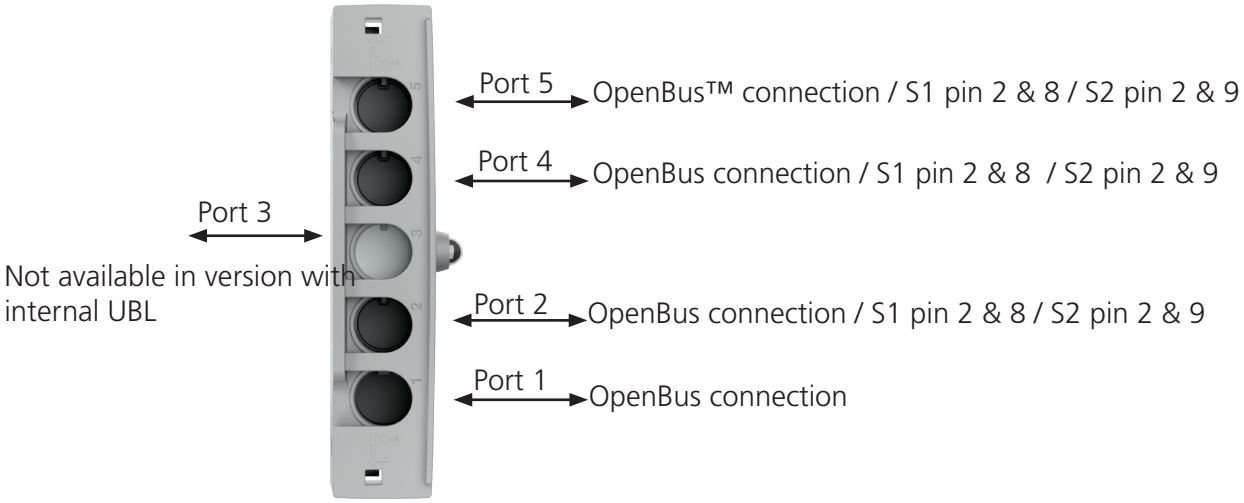
If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: MJBSSS****S**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




## Standard functionality

### UBL

The UBL LED can be switched on and off via the patient control (Key 1) or the attendant control (Key 2).

### External Switch (S1/S2)

The external switch is connected to S1: Pin 2 & 8/S2: Pin 2 and 9 on Port 2, Port 4 or Port 5.

The Switch input functionality can be enabled/disabled via the attendant control. The enable/disable status (switch status) is indicated on the OpenBus.

The switch input functionality is as standard to be used with a NO switch. When the switch is activated (NC), a notification is sent on the OpenBus (switch notification).

## OpenBus™ standard configuration

### Versions 505-010 and 505-020

**MJB 5 0 5 4 0 1 0 - 1 0 2 3**

**HardWare version:**
0 Standard

**UBL int. / Switch input (S1/S2)**
0 1 0 DN (Device Number) 140

| | |
|---|---|
| UBL Key 1: | H28 (ID1) |
| UBL Key 2: | E28 (ID5) |
| S1 Enable/disable Key 1: | E22 + E27 (ID5) |
| S1 status: | E7 (ID5) |
| S1 notification: | E6 (ID5) |
| S2 Enable/disable Key 1: | E23 + E27 (ID5) |
| S2 status: | E9 (ID5) |
| S2 notification: | E8 (ID5) |

**UBL int. / Switch input (S1/S2)**
0 2 0 DN (Device Number) 141

| | |
|---|---|
| UBL Key 1: | H28 (ID1) |
| UBL Key 2: | E28 (ID5) |
| S1 Enable/disable Key 1: | Disabled |
| S1 status: | Disabled |
| S1 notification: | Disabled |
| S2 Enable/disable Key 1: | Disabled |
| S2 status: | Disabled |
| S2 notification: | Disabled |

* Service Data Tool 2, can read out the special/standard code no. and configuration.

* The switch input S1/S2 is by default "Disabled" (factory setting).

When using 2 x UBL (left/right side of bed) it is important to order the MJB5 Plus with 2 different device numbers. Otherwise it is not possible to define the MJB5 Plus through SDT2. Order variant 505-010 & 505-020.

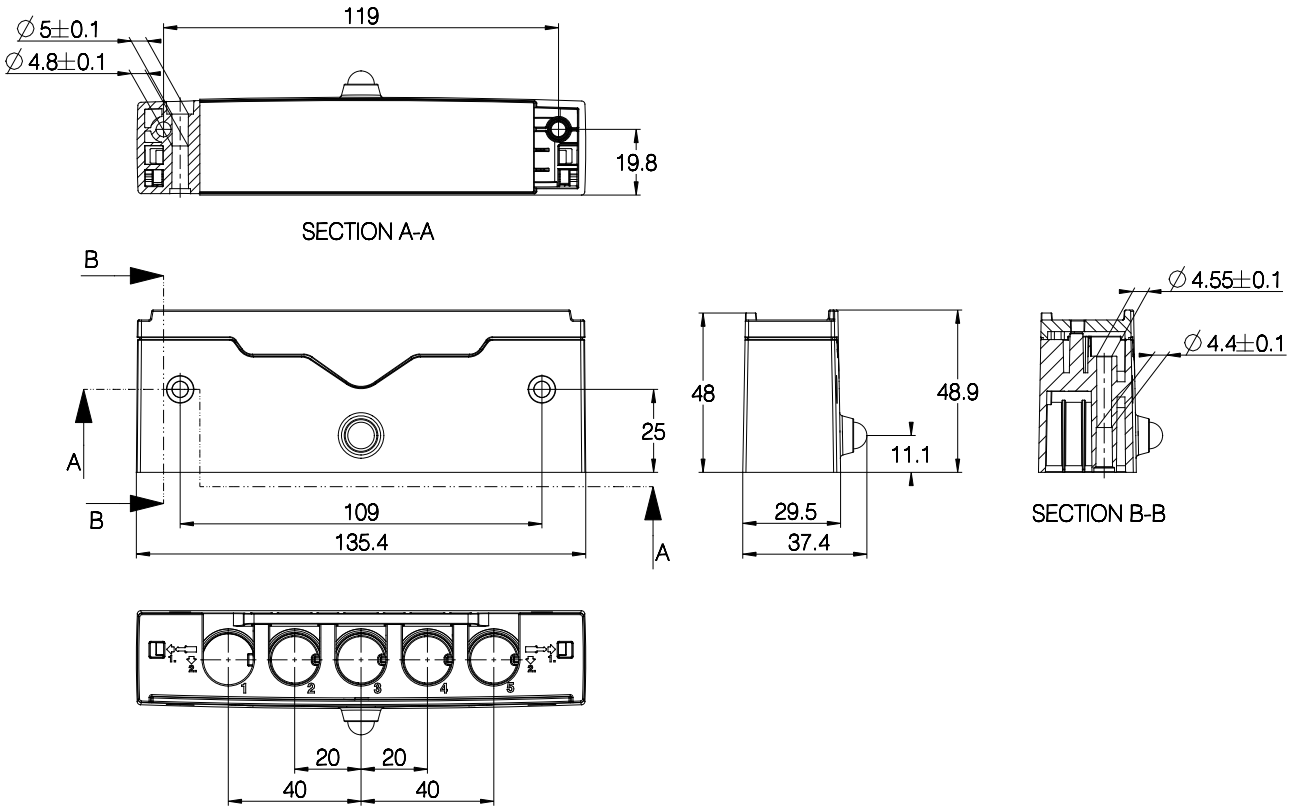
## Power request variants

### Versions 505, 506 and 509

| | Hardware version | | | |
|---|---|---|---|---|
| **MJB Type** | **0** | **1** | **2** | **3** |
| MJB505 (Int. UBL) | No power request | N/A | N/A | N/A |
| MJB506 (Ext. UBL) | No power request | Power request on port 2, 4 and 5 | N/A | N/A |
| MJB509 (AOC) | No power request | Power request on port 2 (pin 17-20), 4 and 5 | Power request on port 2 | Power request on port 4 and 5 |

## Dimensions

### MJB5 Plus with UBL (int.) and switch input




Drawing no.: 0835100

## Cable and accessory overview

| | | MJB5 Plus version | | | | | |
|---|---|---|---|---|---|---|---|
| | | 000 | 502 | 504 | 505 | 506 | 509 |
| Ordering number | Description | Port repeater | SMPS | Gateway | UBL (Int.) | UBL (Ext.) | AOC |
| 0821147 | MJB5 Plus locking mechanism | X | X | X | X | X | X |
| 1015W1010-A | Mounting bracket exclusive screws | X | X | X | X | X | X |
| SA0002645 | Special screws type WN1423 K60x16 | X | X | X | X | X | X |
| 0821008 | Blind plug, RAL 7035 Light Grey, IPX6 | X | X | X | X | X | X |
| 0821120 | Blind plug, RAL 7035 Light Grey, IPX6 Washable DURA™ | X | X | X | X | X | X |
| 0834000 | USB cable, length 1000 mm (USB cable is not medically approved) | | X | | | | |
| 0964399 | Modular plug cable with open end, length 1500 mm | | | | X | X | |
| 0964461-xxxx | Modular plug to modular plug, 6-wire extension cable | X | X | X | X | X | X |
| 0964140-1375 | Gateway cable, xxxx mm, modular plug, open end | | | X | | | |
| 0964135 | Under Bed Light Cable, 2500 mm | | | | | X | |
| 0965347 | Modular plug cable with 10 open-end wires | | | | | | X |

# 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
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Argentina
Novotec Argentina SRL
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Fax: +[57] (1) 282-1684
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Web: www.mem.net.co

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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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