# Modular Junction Box MJB5 Plus with Switch Input

## Data Sheet





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## 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 506-010 and 506-020

The MJB5 Plus is a modular junction box with two switch inputs, S1 and S2, which can be used for an external switch.



**External Switch (S1/S2)**

It is possible for the customer to connect a switch directly to the MJB5 Plus. It 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 , IPX6 Washable DURA™ |
| Current consumption: | VBus 8V = 9.3 mA<br>V Permanent 40V = 2.3 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

**MJB5Plus 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 =** | **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:

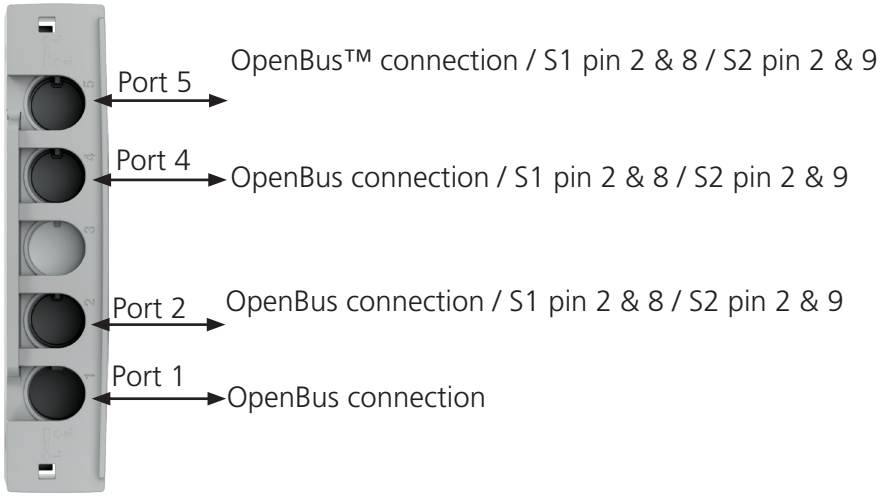
Listed LINAK item for application approval: MJBSSS****S**S*

" * " 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

Port 3 is not available




## Standard functionality

### Port 5

The output can be switched on and off via the patient control (Key1) or the attendant control (Key2).

### 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 for instance to switch on/off a light. 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 506-010 and 506-020

**6 4 0 1 0 - 1 0 2 3**

**HardWare version:**
0 Standard
1 10MJBUBL04-x-x with PRQ on inputs pin 8 & 9

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

| | |
|---|---|
| Key1: | H28 (ID1) |
| Key2: | 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) |

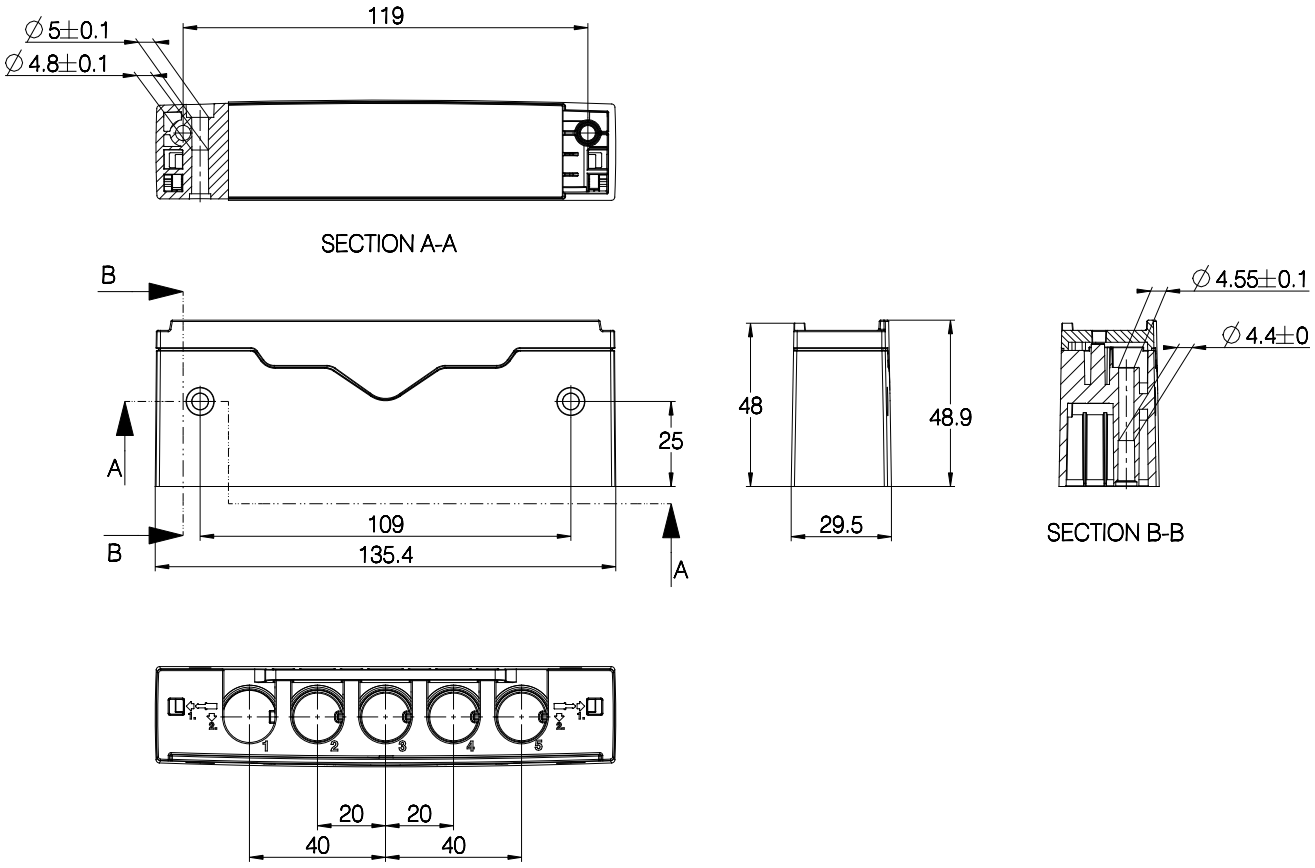
**Switch input (S1/S2)** 0 2 0
DN (Device Number) 141

| | |
|---|---|
| Key1: | H28 (ID1) |
| Key2: | 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 |

PRQ = Power Request

When using 2 x MJB5 Plus with switch input (left/right side of bed) is it important to order the MJB5 Plus with 2 different device numbers. Otherwise is it not possible to define the MJB5 Plus through the SDT2. Order variant 506-010 & 506-020. The External Switch inputs are by default disabled (factory setting).

## Dimensions




Drawing no.: 0835101

## Cable and accessory overview

| | | MJB5 Plus version | | | | | |
|---|---|---|---|---|---|---|---|
| | | 000 | 502 | 504 | 505 | 506 | 509 |
| **Ordering number** | **Description** | **Port repeater** | **SMPS** | **Gateway** | **UBL (Int.)** | **Switch Input** | **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 | | | |
| 0965347 | Modular plug cable with 10 open-end wires | | | | | | X |

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