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Modular Data Interface (MDI)

Data sheet

LINAK.COM/MEDLINE-CARELINE

LINAK® WE IMPROVE YOUR LIFE

Modular Data Interface (MDI)

With the Modular Data Interface, it is possible to connect to third party devices. The MDI establishes the access to the LINAK® Communication Interface™ and prepares the system for the use of future features.
The control box mounting of the MDI is done by means of mounting brackets from the LINAK product range.
The MDI is designed with a cable locking mechanism that allows easy cable locking assembly and disassembly.
It is available with IPX6 and IPX6 Washable DURA™ protection class.

Features and options:

- Housing colour: Light grey, RAL 7035
- Protection class: IPX6 Washable DURA™
- Outer dimensions: H: 175 mm
  W: 68.1 mm
  D: 26.9 mm (without locking mechanism)
  D: 56.7 mm (with locking mechanism)
- LCi interface: UART connection, general LCi™ protocol Voltage level 0/3.3 V
- Power supply, internal: The MDI is powered by the control box. The MDI follows the on/off status of the control box.
- Weight: 130 g
- MDI power consumption: 10 mA
- Communication: OpenBus™
- Max. cable length from MDI to third-party device: 300 mm
- Hardware-protection: Ports protected against wrong connection of cables
- Power possibility: Some third party or OEM devices can be powered through the MDI.
- Galvanic isolation: No galvanic isolation in MDI; to be handled by connected product.

Usage:

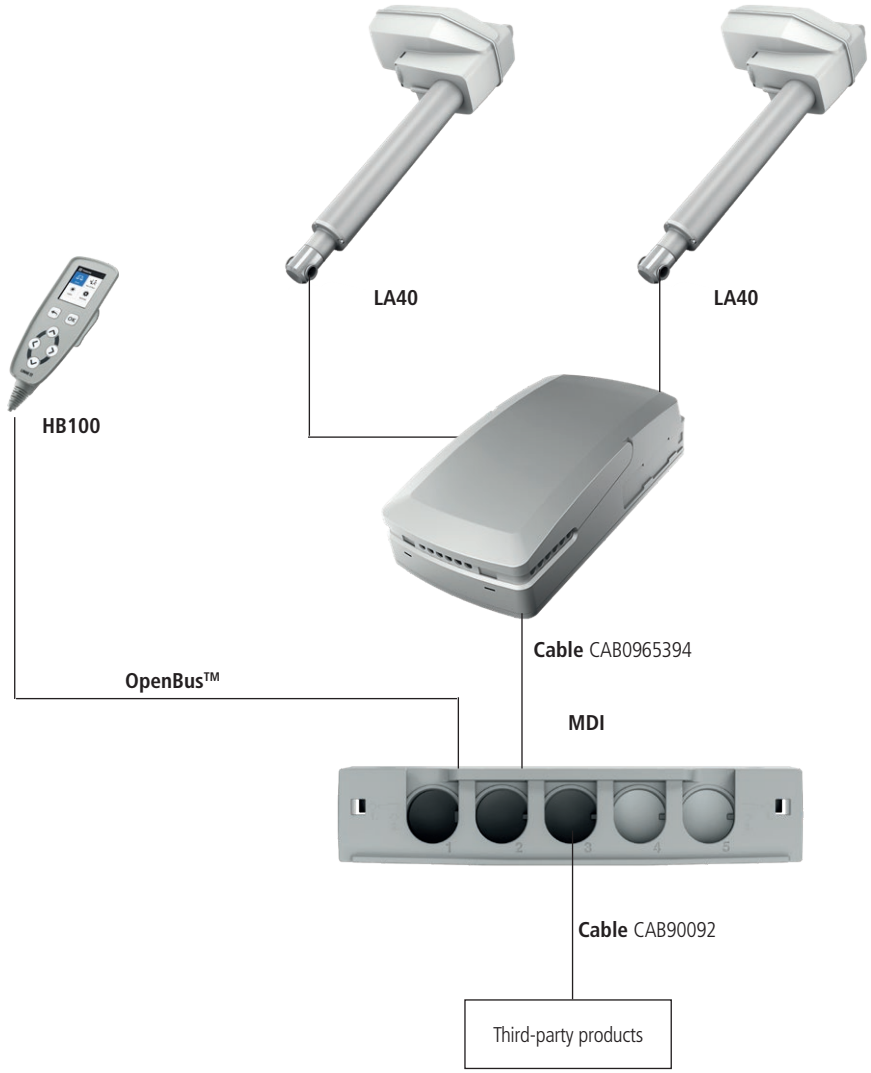
- Operation temperature: +5 °C to + 40 °C
- Storage temperature: -10 °C to + 50 °C
- Relative humidity: 20% to 80% - non-condensing
- Atmospheric pressure (operation and storage): 800 to 1060 hPa

Ordering example:

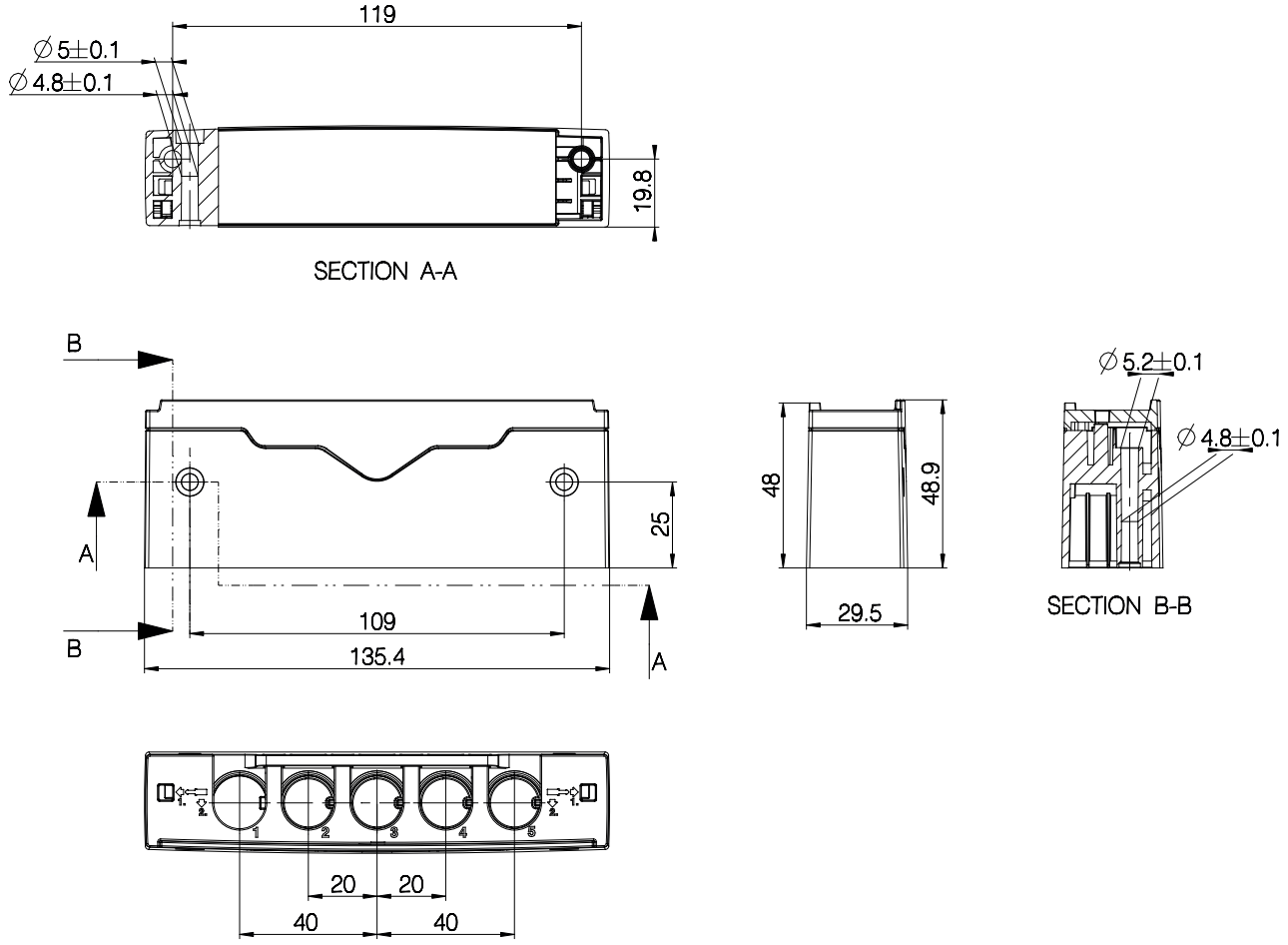
MDI 0 0 0 3 0 0 0 - 1 0 2 3

Cable:	3 = No cable
IP -degree:	2 = IPX6 9 = IPX6 Washable DURA™
Not used	
Colour:	1 = Light grey (RAL 7035)
-	= Not used
SW:	0 0 0 Standard XXX Special SW
No. of connections:	3
Hardware variant:	000 Standard XXX Special variant
Type:	MDI (Modular Data Interface)

System overview - example

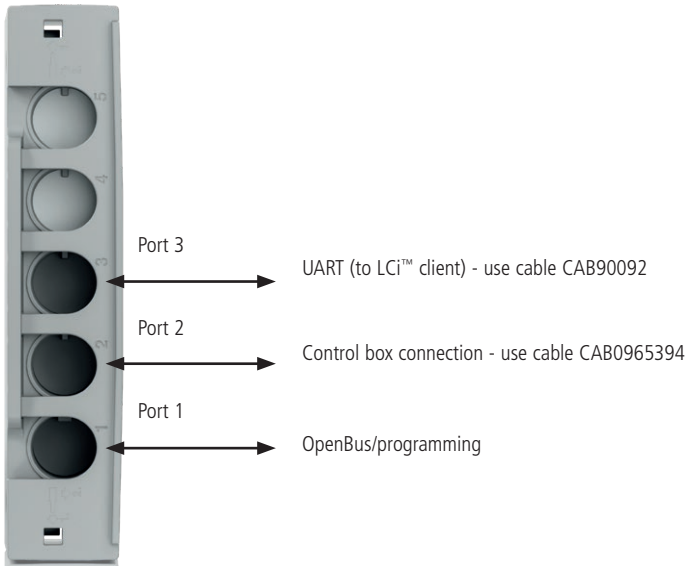


Dimensions:



Drawing no.: 0835011

MDI connection



Pin	Name	Description
Pin 1	Vperm (+22-50V)	Always powered on battery. Powered when system is active on mains.
Pin 2	GND	
Pin 3	Wake up	GND for minimum 100 ms and maximum 500 ms to wake up the system or else disconnected.
Pin 4	N/A	
Pin 5	N/A	
Pin 6	Vbus (+8V)	Powered when system is active.
Pin 7	RXD (TXD from LCi Client)	
Pin 8	TXD (RXD from LCi Client)	
Pin 9	N/A	
Pin 10	N/A	