OpenBus Power Supply - OPS for heat pads

Data Sheet

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Introduction

The LINAK® OpenBus™ Power Supply (OPS) is intended to control up to three heat pads. The OPS is equipped with 120 W constant power and comes as IPX6 Washable DURA™.

The OPS offers flexible system combinations and can be used as a stand-alone system or as add-on to the existing LINAK CO control box solution as CO-Link™.

Features and options

Housing colour:	Light grey (RAL 7035)
Flammability:	V-0, PP (chemical resistant sealed-for-life housing)
IP-Rating:	IPX6 Washable DURA™
Protection class:	Class 2, Class 1 is possible with pigtail on mains cable
Power supply:	Universal, SMPS, 120 W constant
Max. current:	1.6 Amp
Connector:	6 pin Mini-Fit connector
Mounting:	Compatible with various mounting brackets
Overload protection:	The OPS can reduce the output voltage to prevent overload
Mains indicator:	Yes – green LED (Mains connected)
Hand Control Interface:	1 port, 10 pin modular plug
Interface:	CO-Link™
Output short-circuit protected:	Yes
Standby power:	Approx. 0.5 W (120/230 V)
Control concept:	Field-effect transistor (FET) (no relay noise)
Weight:	688 g
Hand Control compatibility:	OpenBus™ standard
Operation:	Parallel up to 3 heat pads
Safety system:	Thermally protected Short-circuit protected Hot-plugging protected
Cable lock:	Integrated in lid
External power supply:	120-240 V AC
(Hand control output):	40 V/200 mA (polyfused protection)
Overload protection:	Fuse
Compatibility:	All LINAK CO control boxes. Please contact LINAK.
Duty cycle:	120 W, 12 V DC, 100% (1 hour)
PCP version:	PCP 2.0

Usage

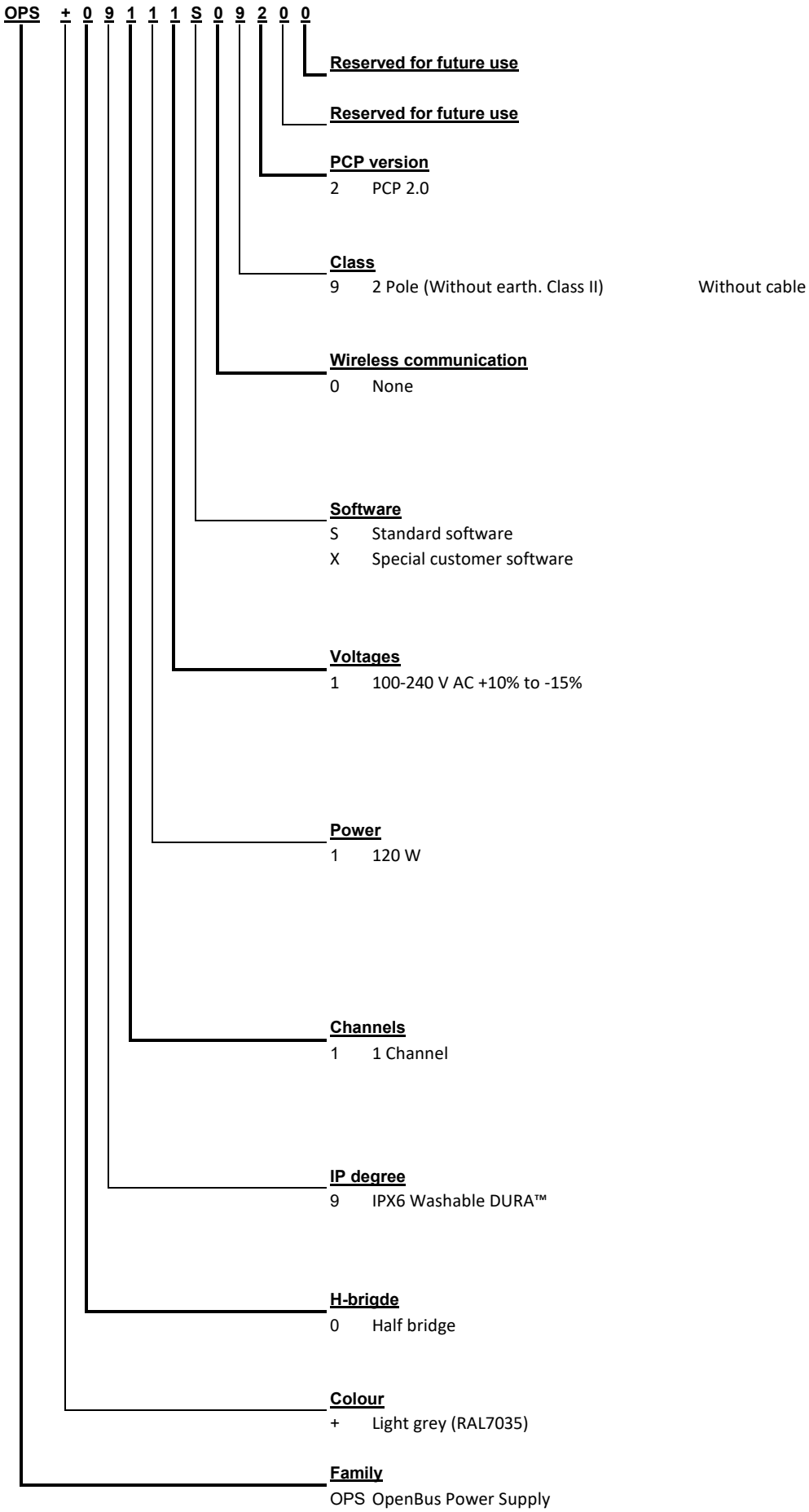
Duty cycle:	100%
Operation temperature:	+5 °C to + 40 °C
Storage temperature:	-10 °C to + 50 °C
Relative humidity:	20% to 80% - non-condensing
Atmospheric pressure:	700 to 1060 hPa
Height above sea level:	Max. 3000 meters
Flammability rating:	UL94 V2
Latex free:	Yes

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:	IEC 60601-1 ANSI/AAMI ES60601 CSA CAN/CSA-C22.2 NO. 60601 IEC 60601-1-6 IEC 60601-1-2

Ordering Example



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: OPS

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

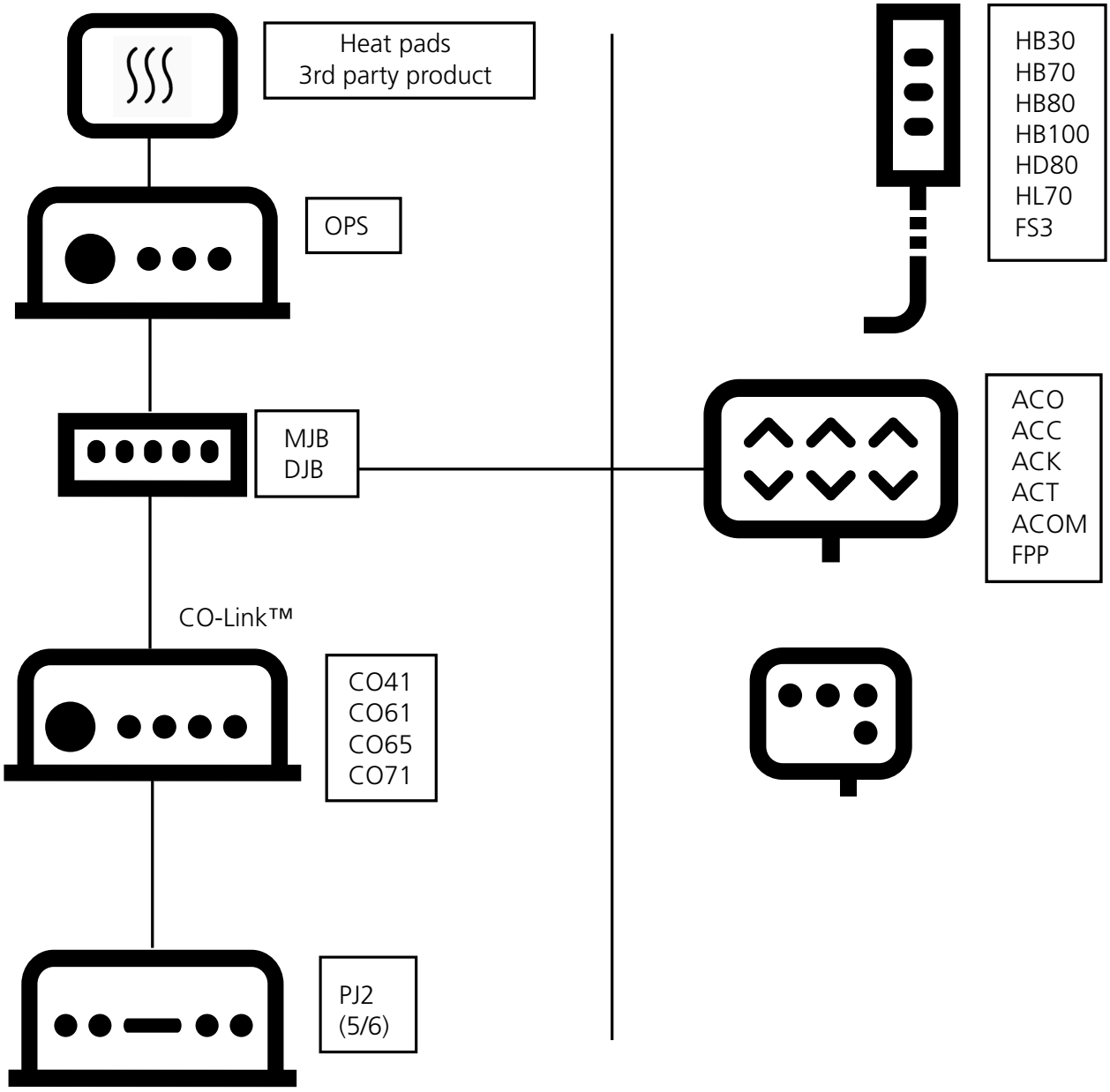
Listed LINAK item for application approval: OPS**S*SS**S*SS

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

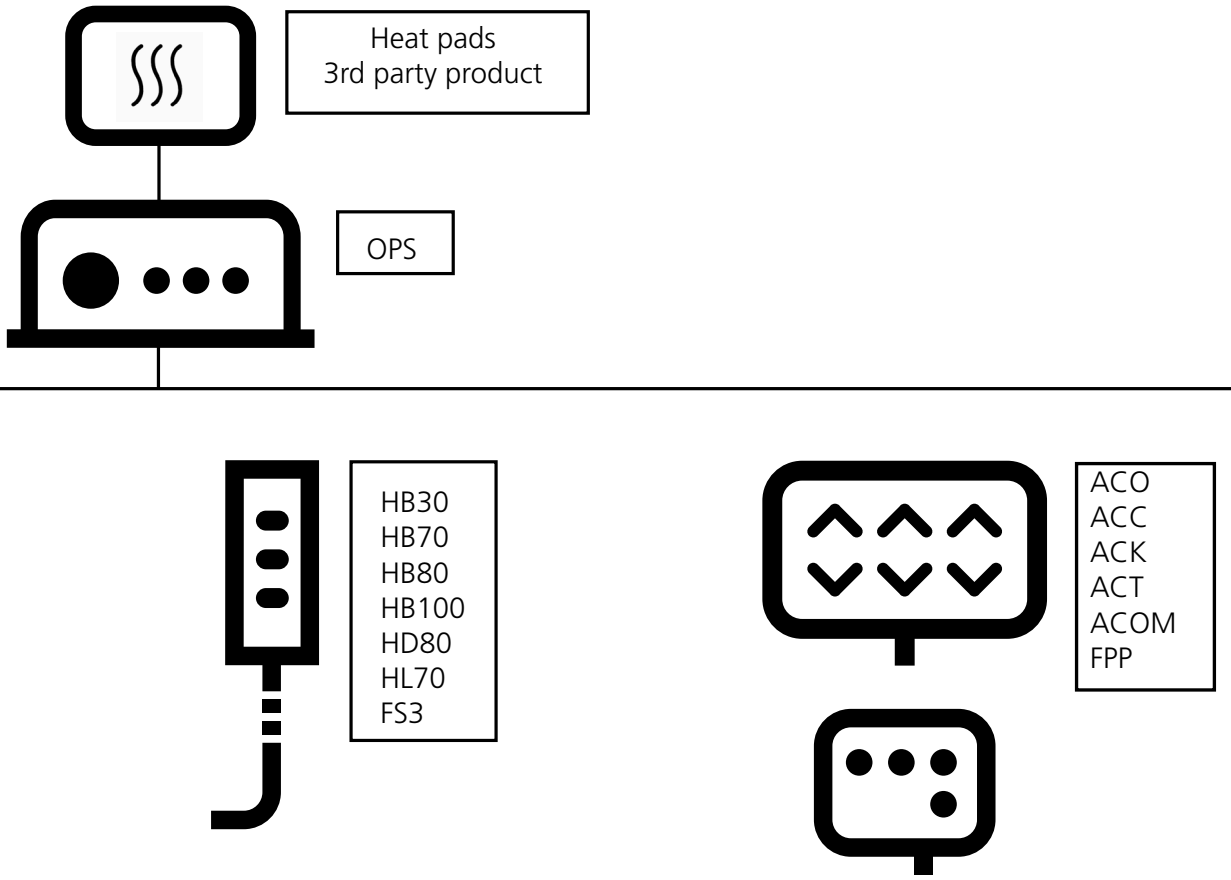
" S " is safety critical and represents a listed critical component in the product and cannot be left out.

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

OPS - System Overview

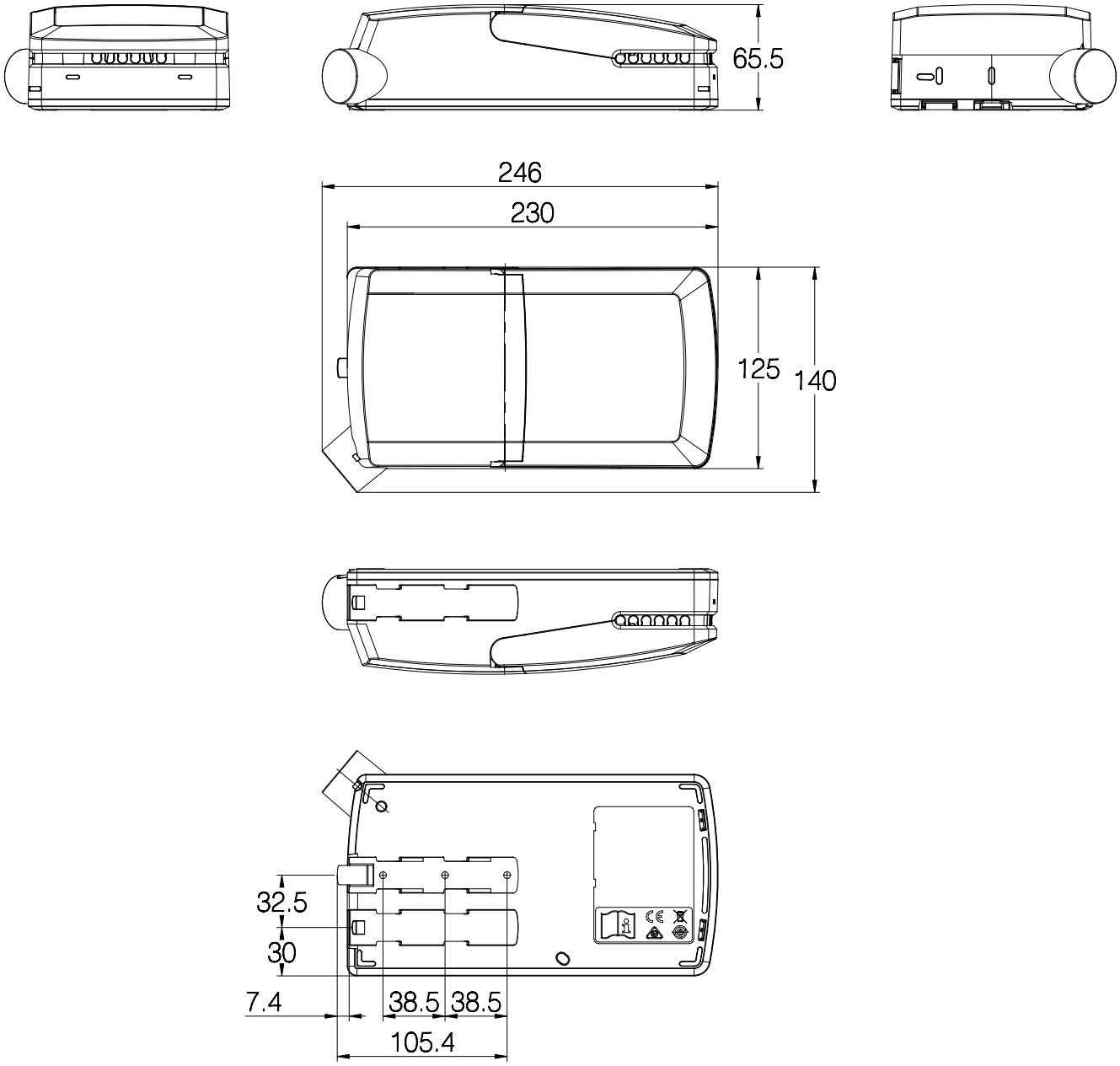


OPS - System Overview - stand-alone



Dimensions

All dimensions are in mm.

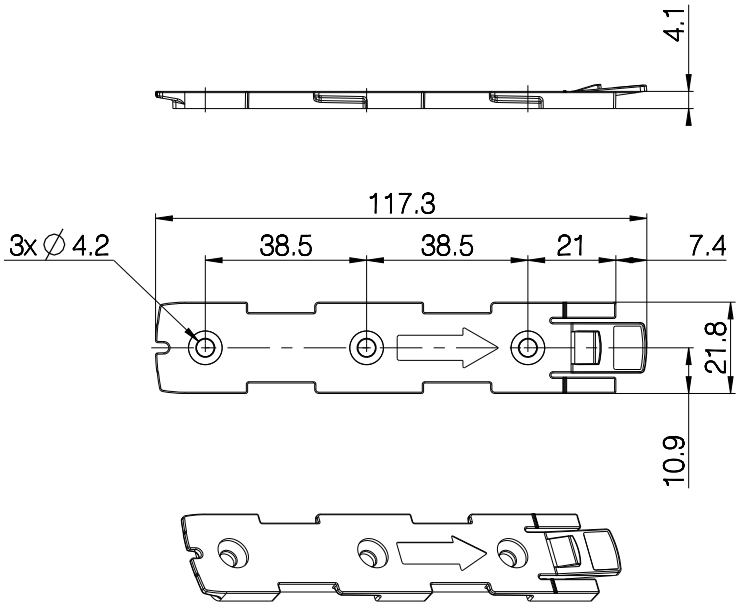


Drawing no.: 1014W4010

Mounting bracket (frame flat)

All dimensions are in mm.

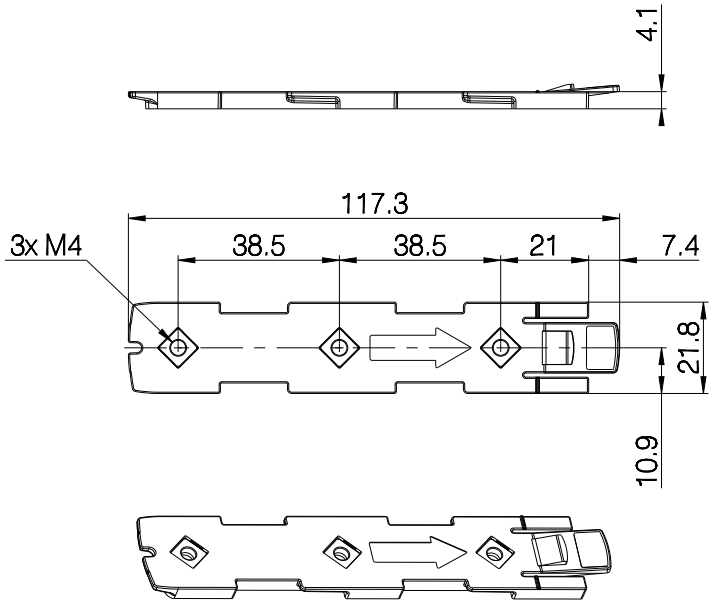
Article No. 1015W1001



Drawing No.: 1015W4001

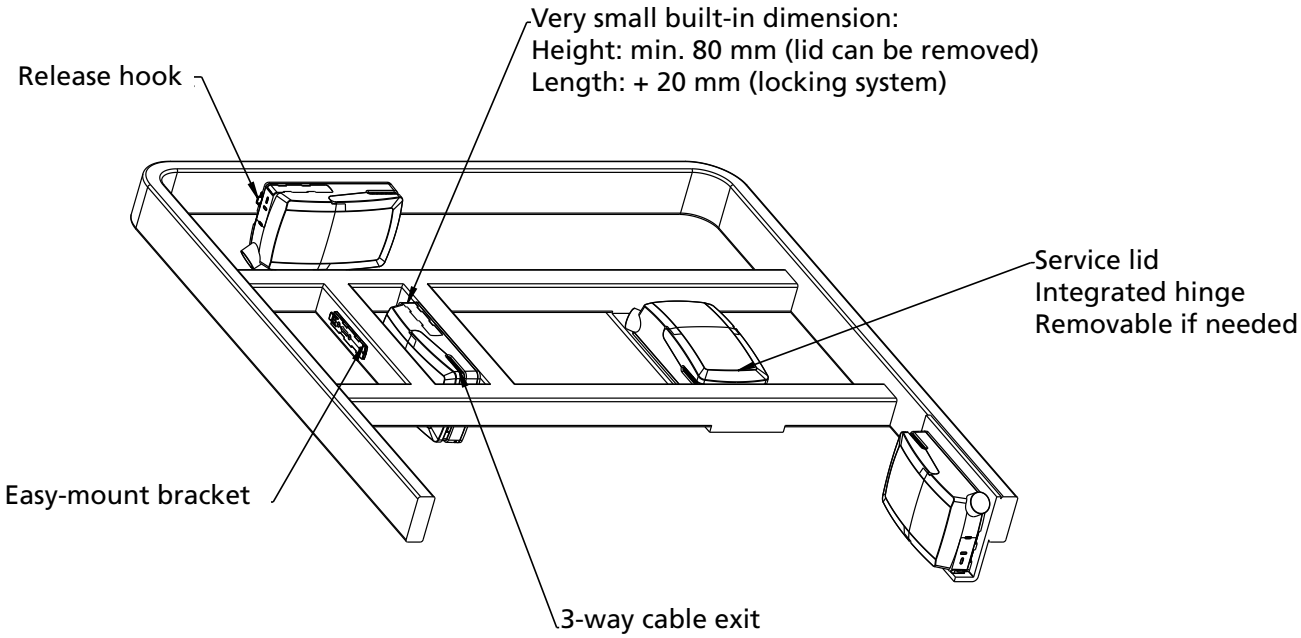
Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009



Drawing No.: 1015W4009

OPS - mounted on frame



Drawing No.: 1013W4008

Mounting of cables and cable lock

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

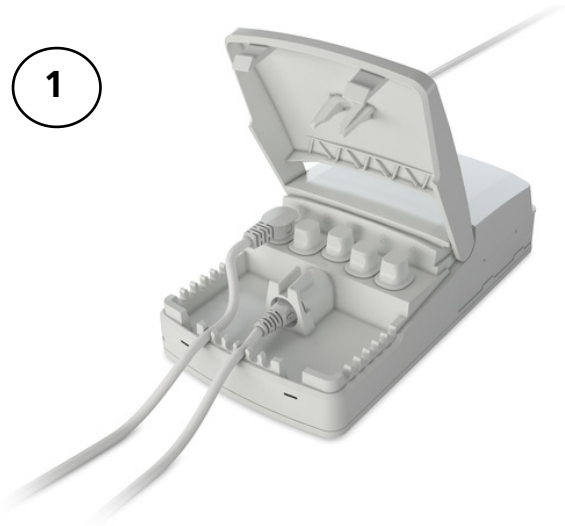
1) Mount cable plugs in the OPS

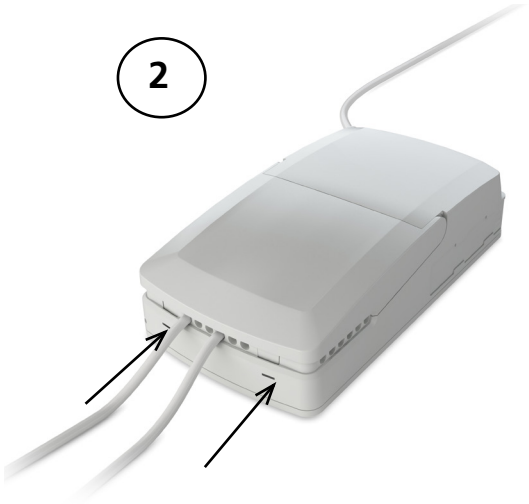
2) Close lid until lock snaps into place (see arrows)

To allow free cable access, 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





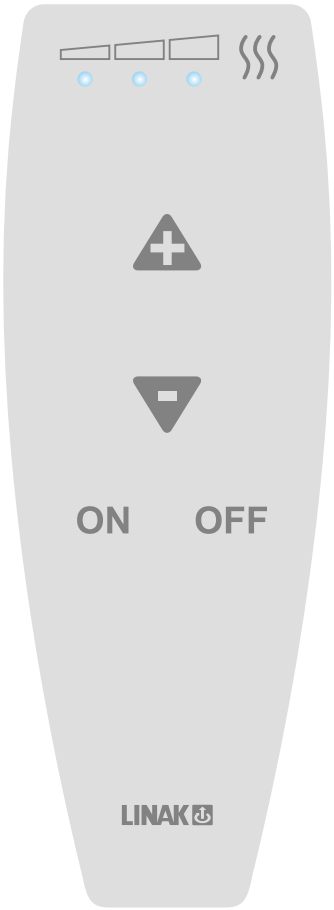
LED indicator

The OPS is equipped with LED indication. When mains power is connected, the LED turns green. The LED turns yellow for as long as the pressure lasts.

Connected to MAINS	
LED colour	**Indication of operation**
Green	**On mains.** The system is working ok and is ready for normal operation.
Yellow	**On mains, activated by hand control.** The system is working.

HB30 and LINAK front cover

For stand-alone systems, order LINAK hand control HB30 with front cover, article no.: HB30138-00.



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