Port Junction Box PJ2
Data Sheet



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Introduction



The LINAK® Port Junction Box PJ2 offers two extra outputs for the CO control box series. Standardised technology, interfaces and compatibility like the new CO control boxes (not compatible with CO53).

The PJ2 for LINAK actuators is intended for the control of, for instance, hospital bed and surgery tables movement.

With the PJ2, IPX6 Washable DURA™ protection and a battery port are standard options. The entire product platform supports the LINAK principle "One World – One box" – worldwide operable and applicable.

Features and options

Power supply	From COXX, PCP 2.0 only Defined by PCP (17 VDC to 50 VDC)
Bus system	LINbus
LED indicator	No
Actuator interface	2 channel 6 pin Mini-Fit
Hand control interface	No
Battery interface	Via PCP 2.0 port 4 pin Mini-Fit
PCP version	PCP 2.0
Standby power	Approx. 0.5 W
Colour	Light grey (RAL 7035)
Output short-circuit protected	Yes
Control concept	FET (no relay noise)
Power supply circuit method	Full-bridge
Duty cycle	10 % - 2/18 min. on/off continuous use
Weight	Low weight 0.3 kg
Actuator compatibility	Actuators with signal, feedback by hall and potentiometer
Battery charger	No charger, but supports battery with internal charger
EOP	Yes
Flammability rating	V-0, PP (chemical resistant sealed-for-life housing)
IP-Rating	IPX6 Washable DURA™
Operation	Simultaneous
Max. current	10 A/CH, 2/18 min. Max. 12 A/CH in a limited time period
Power management	High speed at low loads and/or high loads at a lower speed
Overload protection	The PJ2 reduces the output voltages to prevent overload
Safety system	Thermally protected Short-circuit protected Hot-plugging protected
Compatibility with actuators with hand crank	Not possible
Cable lock	Integrated in lid
Mounting	Compatible with a wide range of mounting brackets

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 2000 meters
Approvals (pending)	- IEC60601-1 - ANSI/AAMI ES60601-1 - CSA CAN/CSA-C22.2 NO. 60601-1

Ordering example



Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Reserved for future use

Software

S Standard software (Channel 5 and 6)
R Standard software (Channel 7 and 8)
Q Standard software (Channel 9 and 10)
P Standard software (Channel 11 and 12)

Voltages

0 External supply - PCP

Power

0 External supply - PCP

Channels

2 2 Channels

IP degree

9 IPX6 Washable DURA

H-brigde

1 Full bridge

Colour

\+ RAL7035 light gray

Form factor

2 2 channel housing

Functionality

J Junction box

Family

P Port

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: PJ2

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

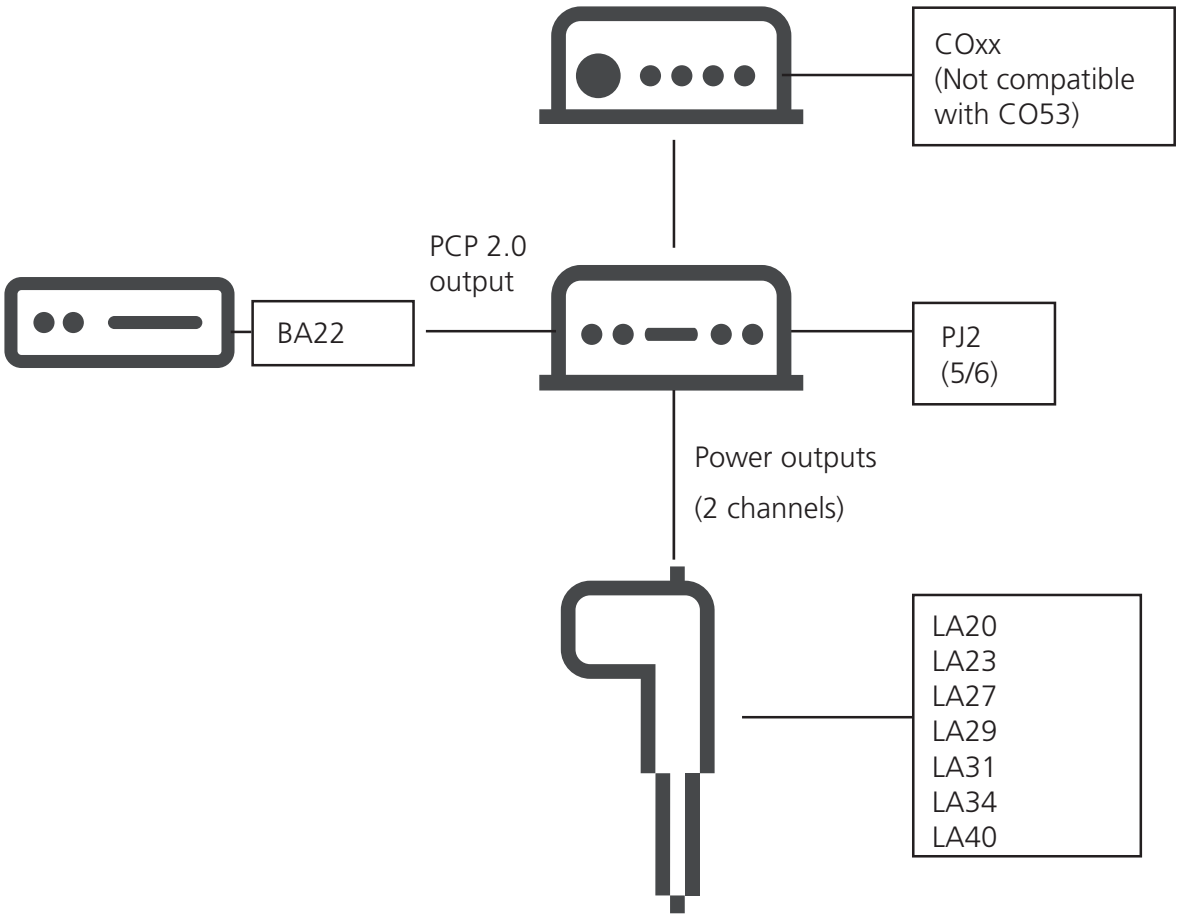
Listed LINAK item for application approval: PJ2**S*SS**SSSS

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

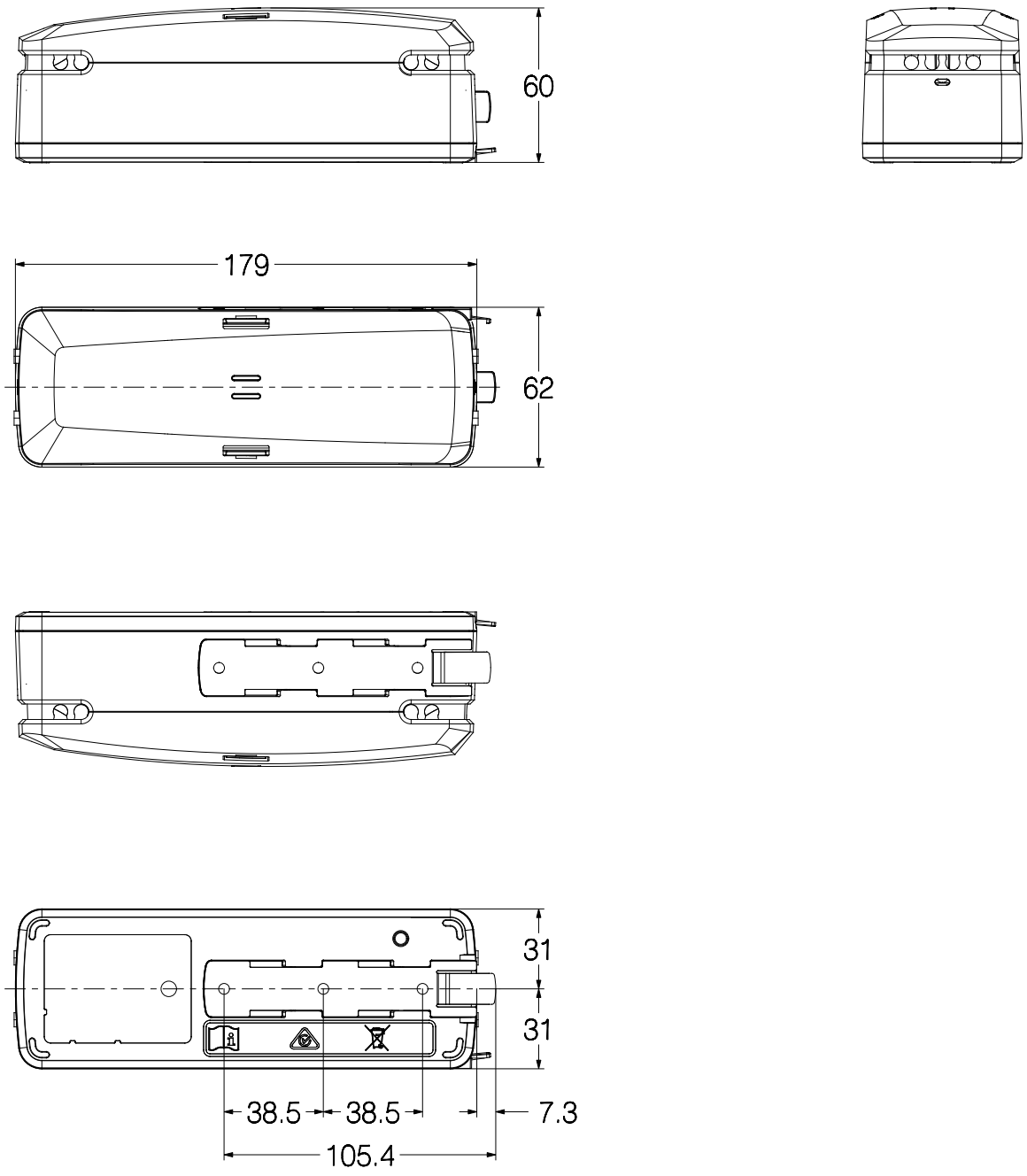
" S " is safety critical and represents a listed critical component in the product and cannot be left out.

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



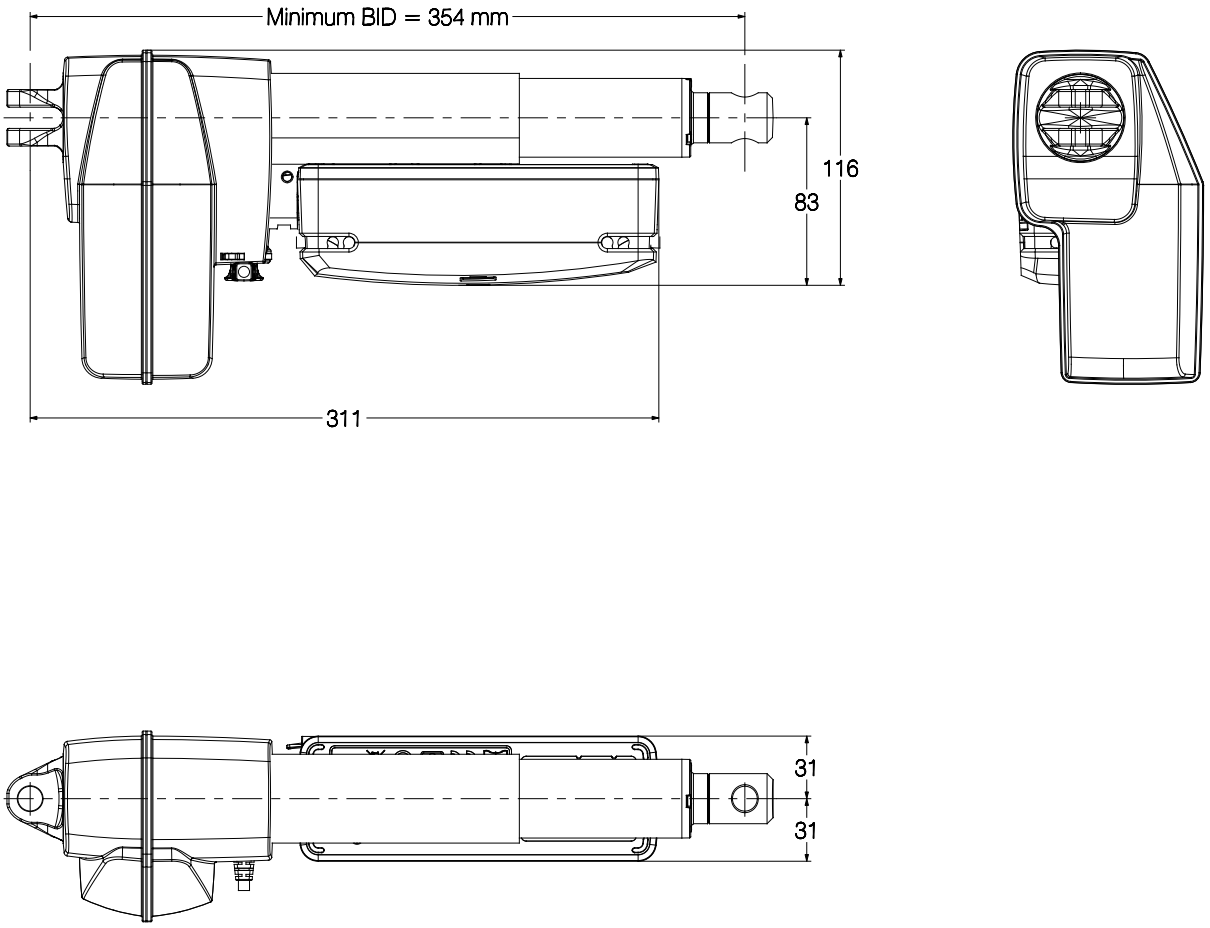
Dimension drawings



Drawing No.1038w4005

Installation dimensions

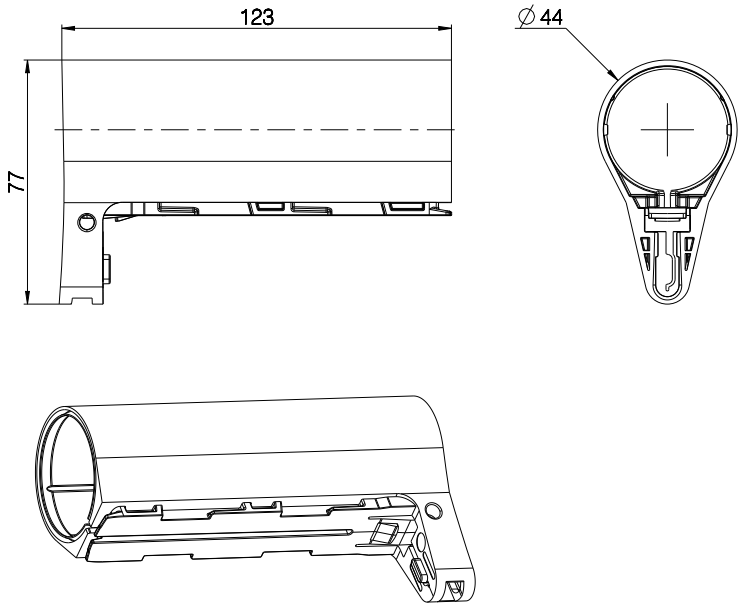
Example of PJ2 mounted on LA40



Drawing No.1038w4002

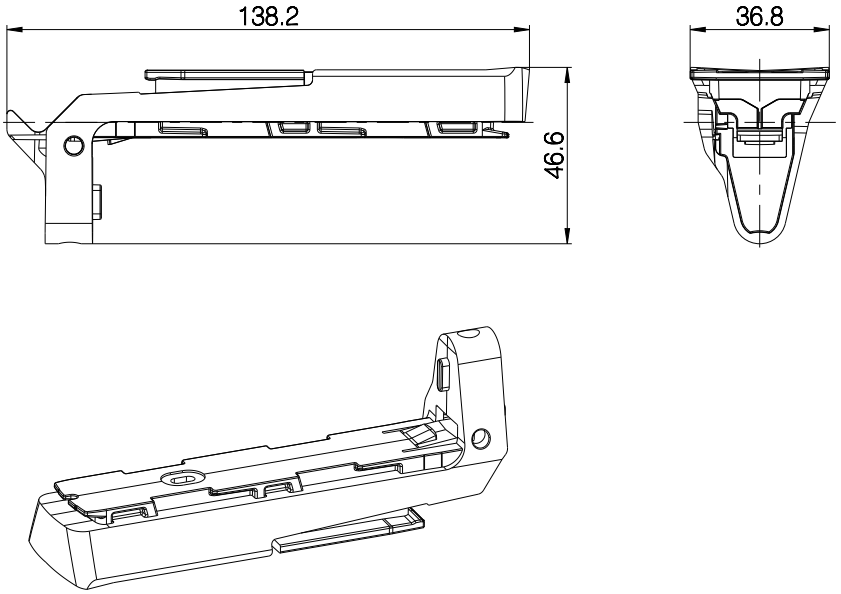
Mounting brackets

For mounting with LA40 (Article No.: 1015W1002)



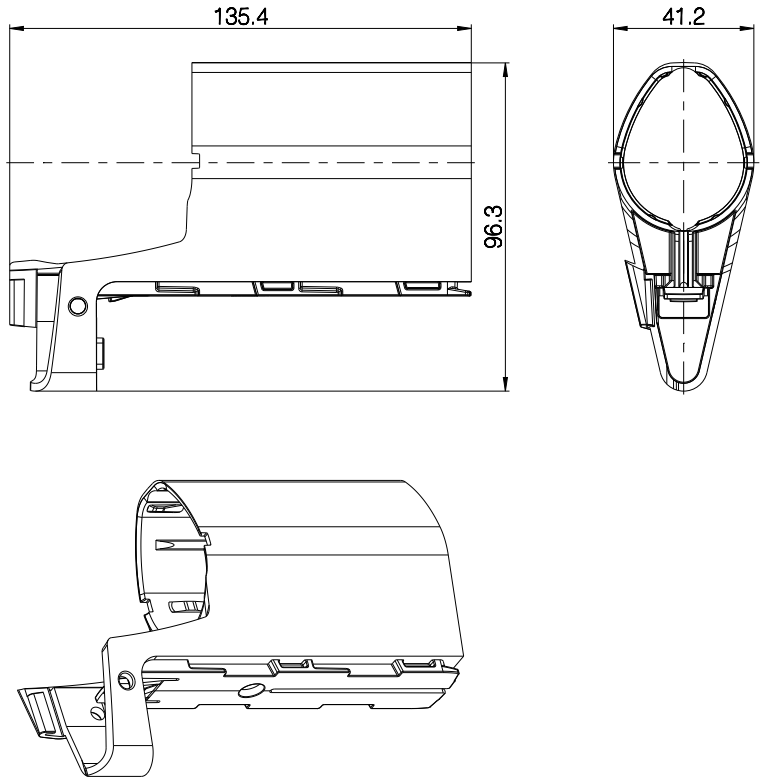
Drawing No.: 1015W4002

For mounting with LA31 (Article No.: 1015W1004)



Drawing No.: 1015W4004

For mounting with LA27 (Article No.: 1015W9003)



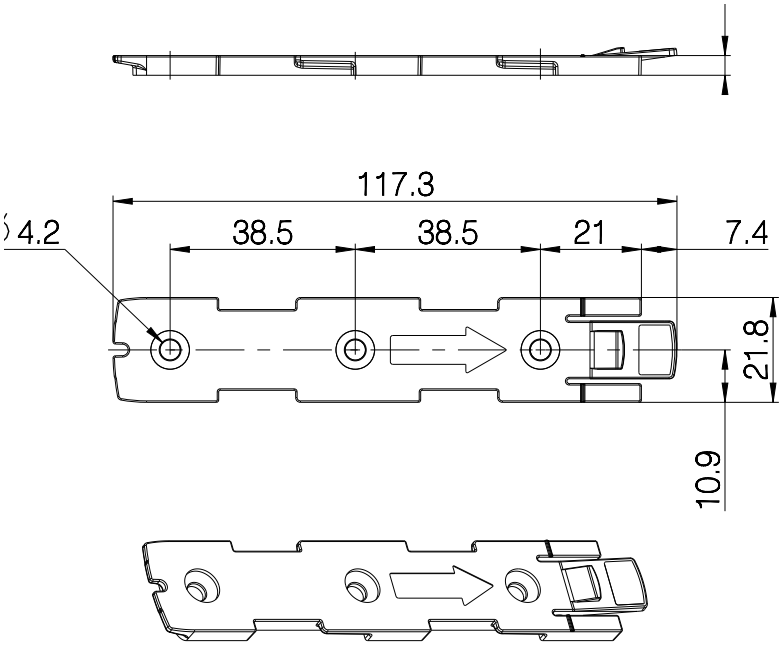
Drawing No: 1015W4003

The adapter 1015W9003 includes a screw that is halfway mounted, thus everything as one part.

Screw head torx size: T15

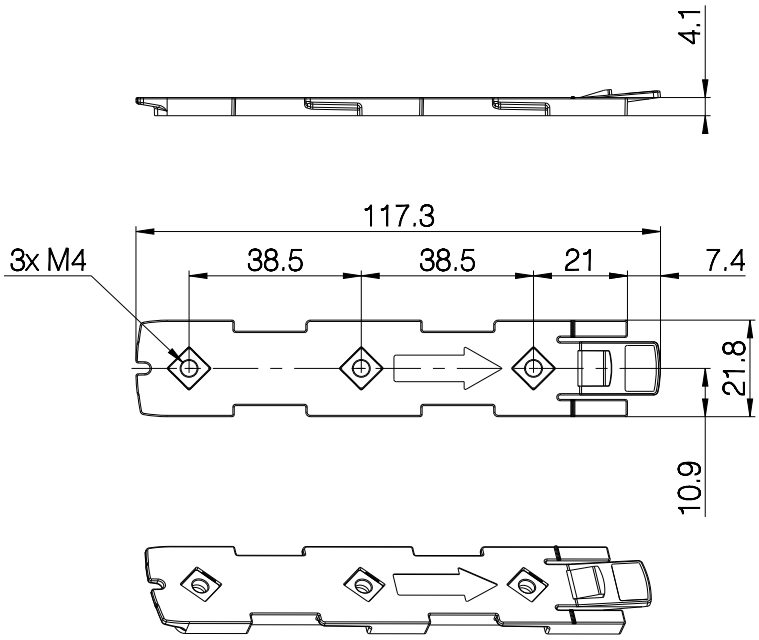
Screw torque: 1.2 ± 0.2 Nm

Mounting bracket (frame flat) - article No. 1015W1001



Drawing No.: 1015W4001

Mounting bracket (frame flat) w/M4 nuts - article No. 1015W9009



Drawing No.: 1015W4009

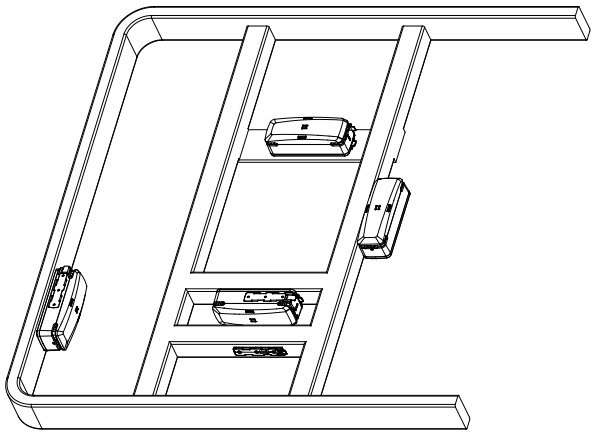
It is recommended that the PJ2 is mounted in a position that allows water to escape.

Recommended torque: 0.6Nm +/-0.1

The bracket can be mounted to the bed frame or any other application by following one of the following mounting procedures:

- M5 machine screw with flat washer to be fixed through bracket with nut on the rear side
- Self-tapping screw to be placed through bracket and onto the frame

Mounted on frame



Drawing No.: 1038W4003

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