

INSTALLATION INSTRUCTIONS

Display Splitter



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1. Introduction

This Installation Instruction is intended to provide the information required to install the Display Splitter product. For additional information and technical assistance, please contact your CPAC Systems Sales Representative.

CAUTION: A general understanding of the features and functions of Display Splitter and its components is a prerequisite for the proper use of this equipment. Therefore, do not operate this equipment before reading these instructions thoroughly, including all appropriate warnings and cautions.

NOTE: Figures in this manual are provided for reference purposes only. Screens will likely differ based on the product and system configuration.

1.1 Caution and Notes

Please read and adhere to all cautions listed throughout this instruction.

A **WARNING** is provided to outline items that, if not followed, may result in death or serious injury to the patient or damage to the equipment.

A **CAUTION** is provided to alert the user that special care should be taken for the safe and effective use of the device.

A **NOTE** is provided when additional general information is available.

CAUTION: Only qualified and trained personnel or Service Personnel should attempt to service the equipment. Service is defined as any activity requiring the cover to be removed for internal adjustments, parts replacements, repairs or software upgrades of any kind to insure compatibility.

CAUTION: To ensure compatibility with the product software, use only approved components to repair any part of the product. Use of unauthorized software, devices accessories, or cables may render the application unsuitable for its intended use. It may also result in increased electromagnetic emissions or decreased Immunity of the system.

CAUTION: Only compatible systems, capable of supporting the outlined communication protocols, shall be used with the product.

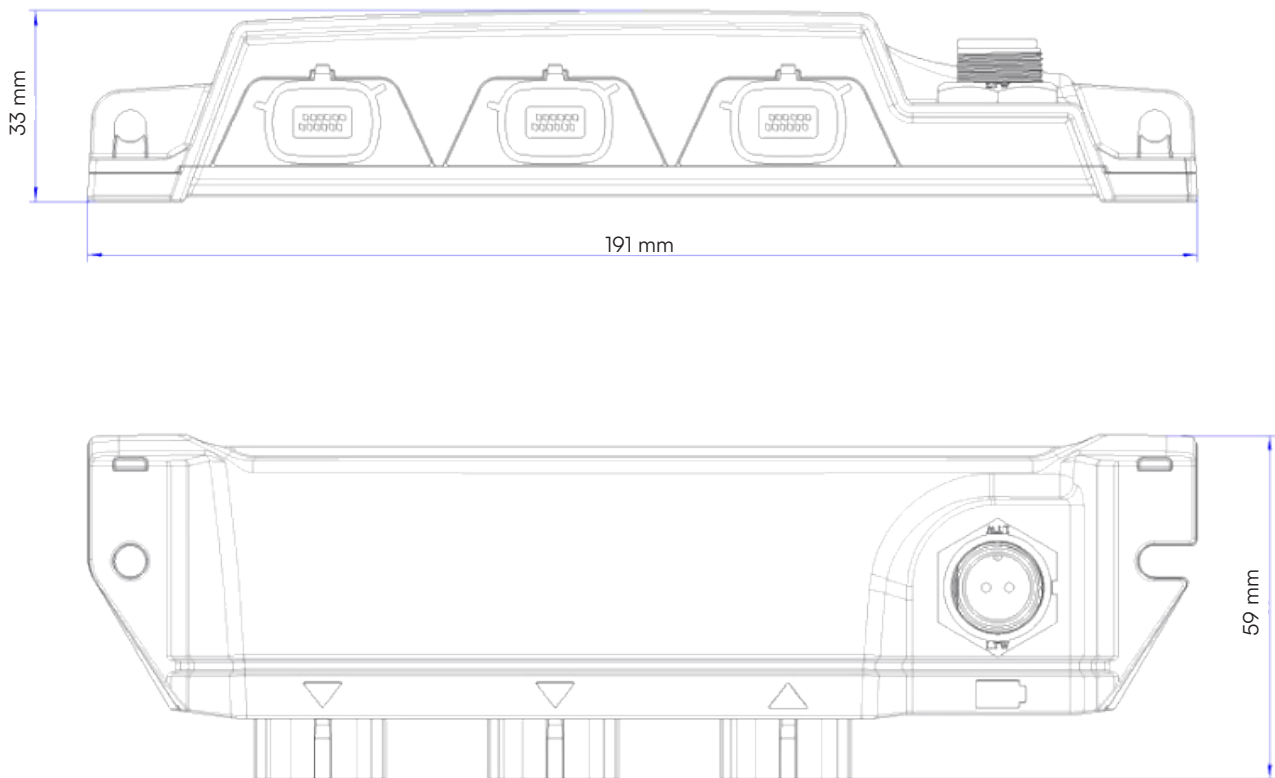
CAUTION: Changes or modifications not expressly approved by CPAC Systems AB could void the user's authority to operate the equipment.

WARNING: This product has not been evaluated or certified as ignition protected. Installation within engine rooms or other areas where flammable vapors may be present is prohibited.

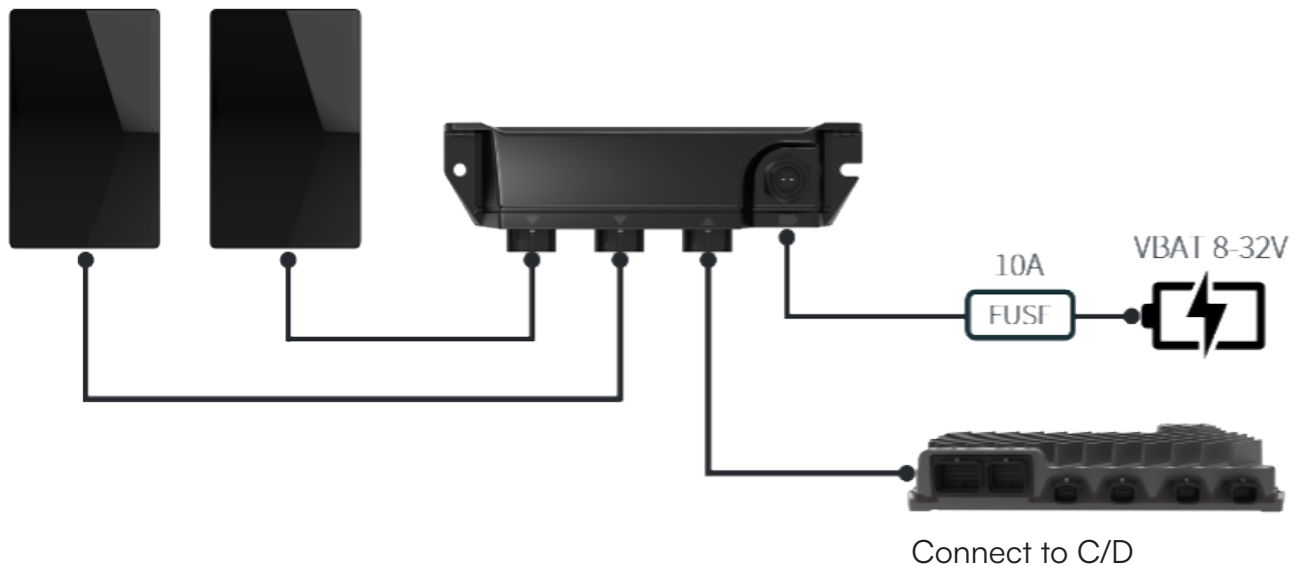
1.2 Intended Use

The intended use of the Display Splitter is to enable the connection of two displays to a single display port on the Marivue Bridge or CPAC Systems Hydra.

2. Overall Dimensions



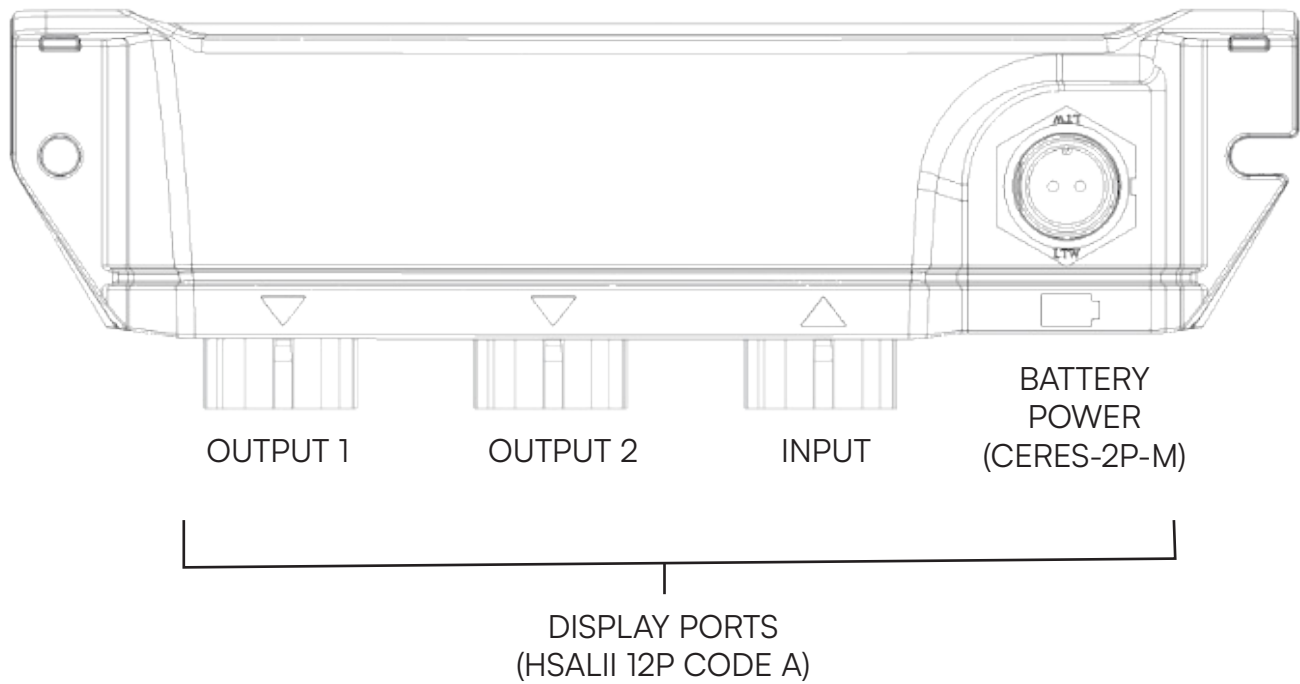
3. Wiring Schematic



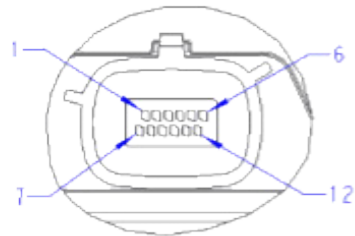
NOTE:

- A 10A fuse (not included) must be installed on the positive power line.
- The battery cable may be shortened to the required length as needed, but the ferrite must remain installed and must not be removed.
- Cables are not included in Display Splitter

3.1 Connector Pinouts

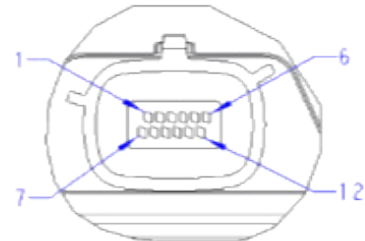


A (2:1)



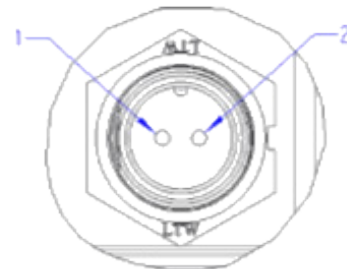
DISPLAYPORT OUTPUT (0/1)	
PIN Nr:	NAME:
1	GND
2	FPD_DOUT[0/1]_P
3	FPD_DOUT[0/1]_N
4	GND
5	NA
6	NA
7	VBAT_FILT
8	VBAT_FILT
9	VBAT_FILT
10	GPIO_CWL
11	GND
12	GND

B (2:1)



DISPLAYPORT INPUT	
PIN Nr:	NAME:
1	GND
2	FPD_DOUT0_P
3	FPD_DOUT0_N
4	GND
5	FPD_DOUT1_P
6	FPD_DOUT1_N
7	POWER_EN
8	POWER_EN
9	POWER_EN
10	GPIO_CWL
11	GND
12	GND

C (2:1)

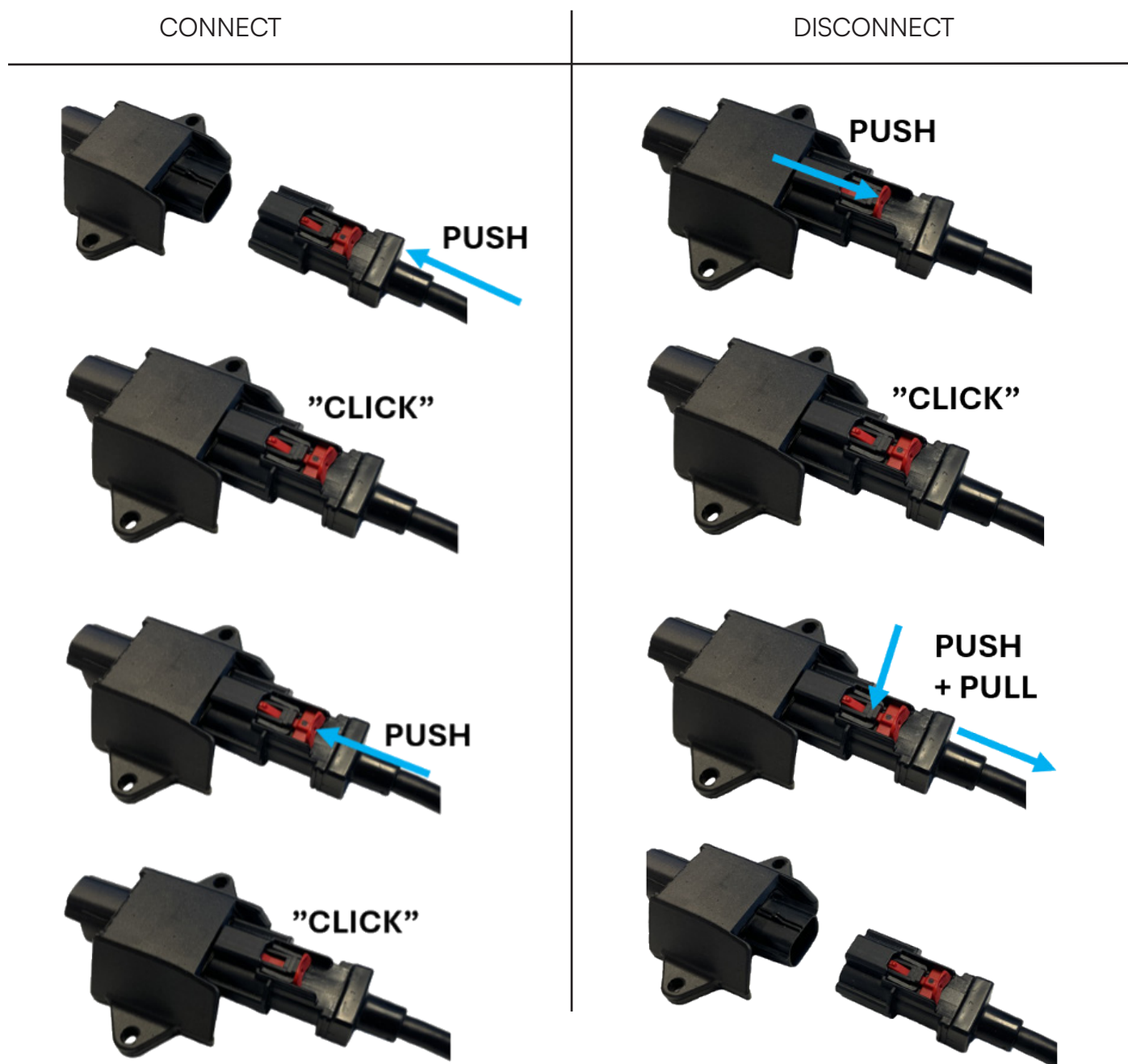


BATTERY POWER CONNECTOR	
PIN Nr:	NAME:
1	GND_IN
2	VBAT

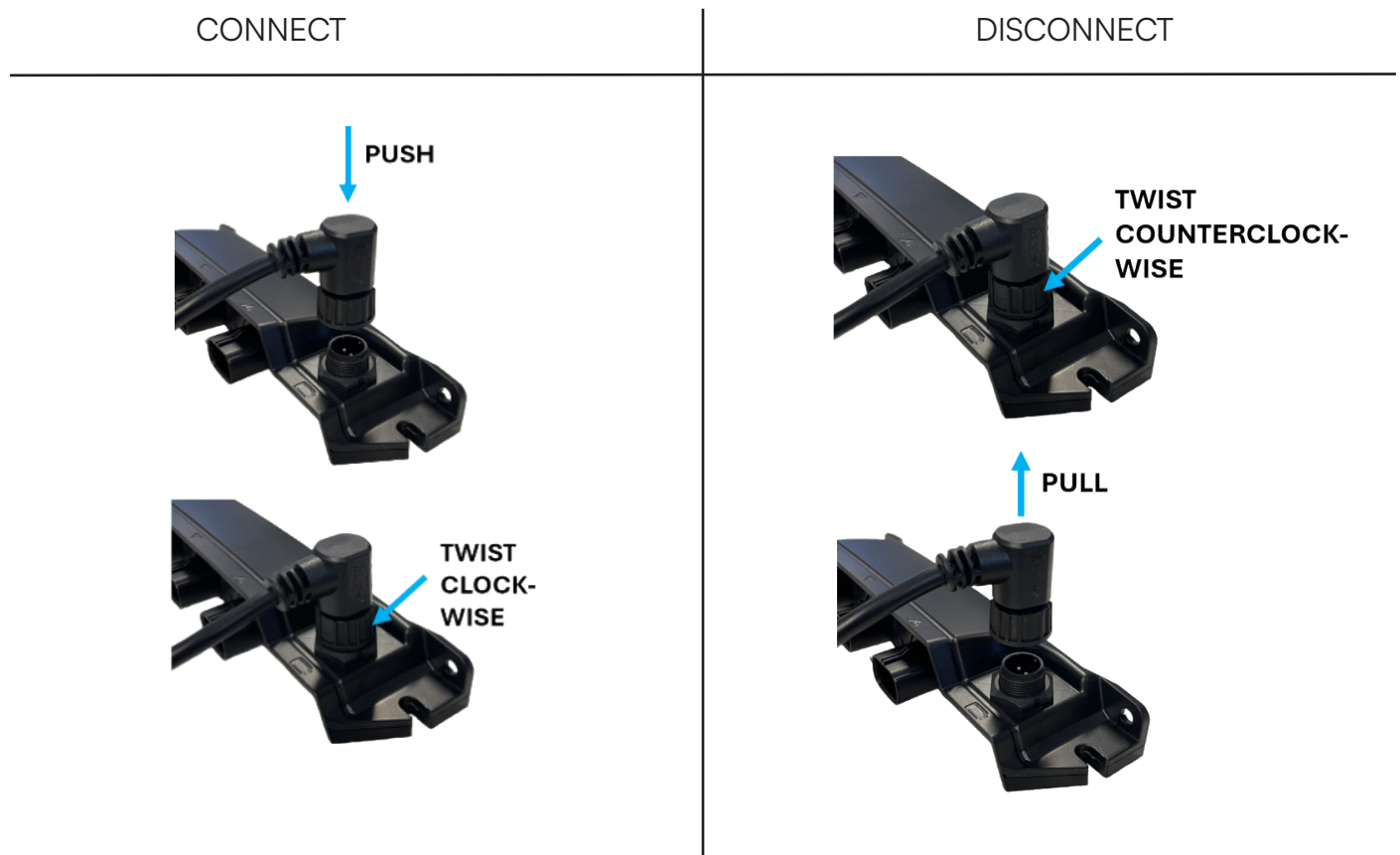
3.2 Connector Mating Procedure

How to properly connect and disconnect each connector during installation.

3.2.2 HSAL II

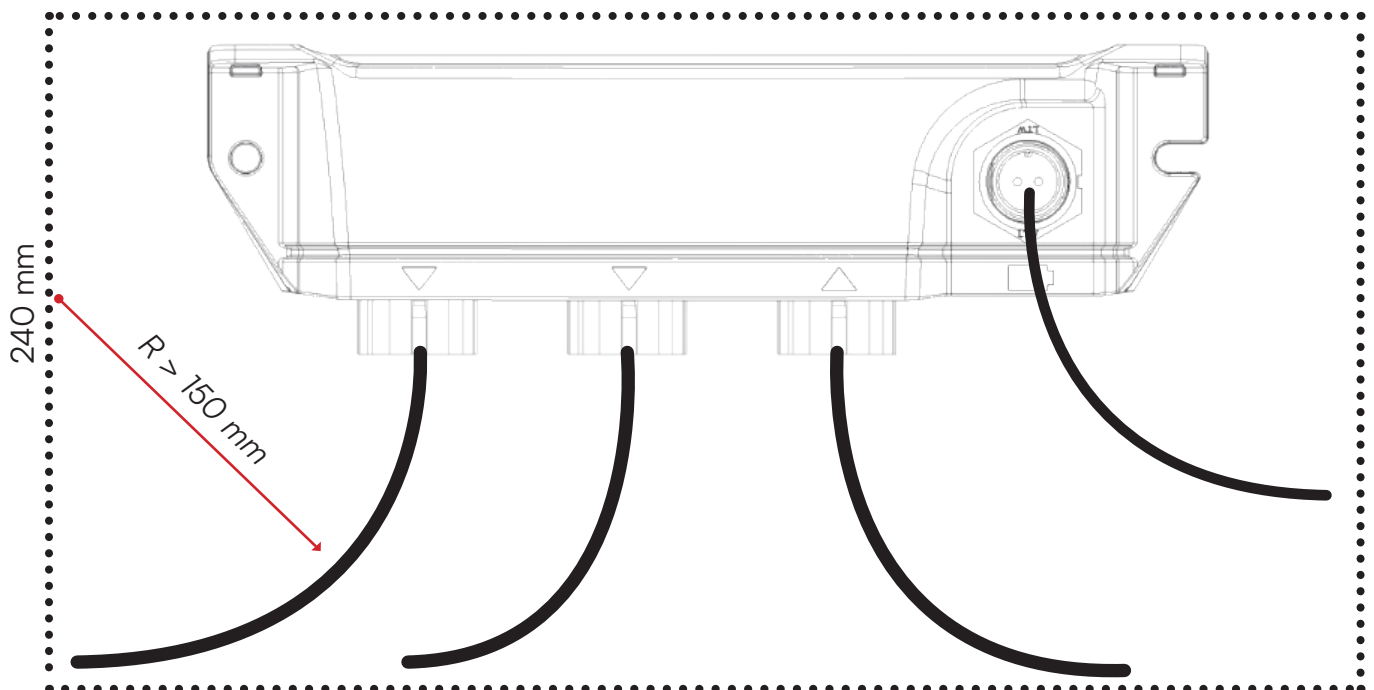


3.2.1 CERES 2P



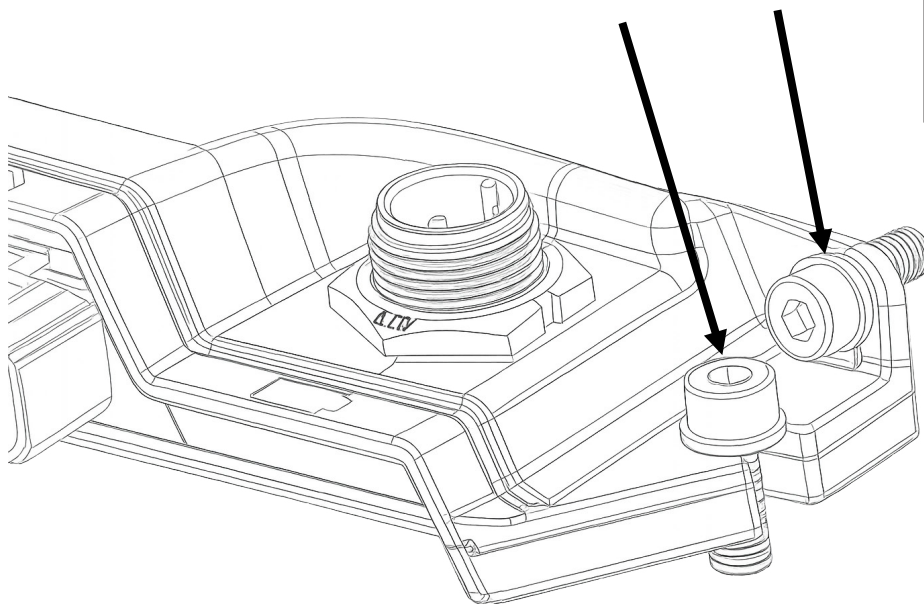
3.3 Wiring Installation

- Minimum cable bending radius: > 150 mm
- Required installation envelope: Approximately 240 x 380 mm, including the minimum bending radius of the connected cables.
- Cable strain relief is required to prevent stress on the connectors.



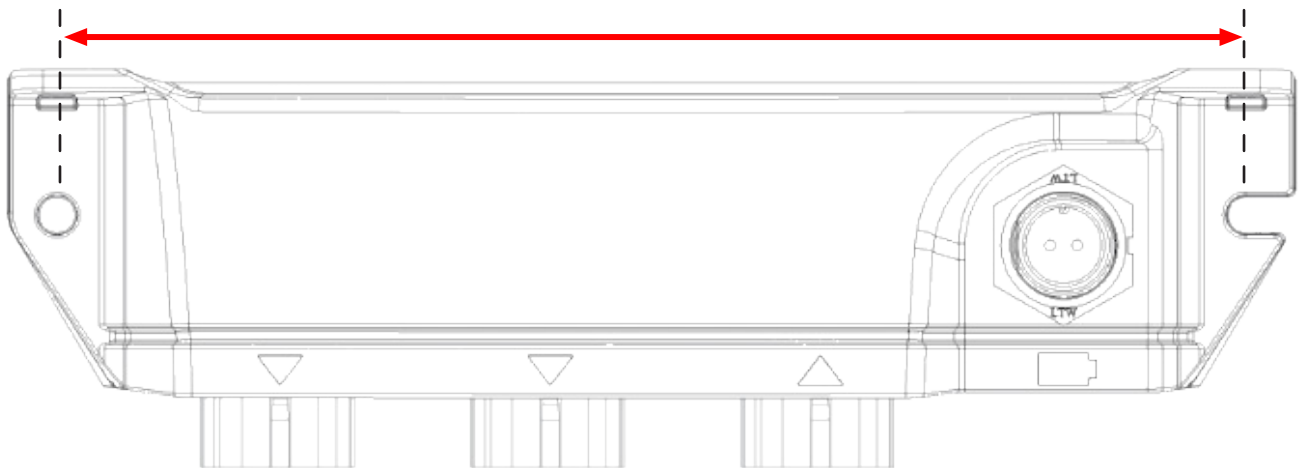
4. Mounting Options

The Display Splitter can be installed using either the primary or secondary mounting holes.



NOTE: Avoid mounting the device with upward-facing connectors.

The centre-to-centre (C-C) spacing between the mounting holes is identical for both configurations and is 176 mm.



Recommended mounting hardware (not included):

2x M5 Bolts (Length selected according to panel thickness) 2x M5 Washers (DIN 125/ISO 7089, max 10mm outer diameter) 2x M5 Lock nuts
--

Metric

2x #10 Bolt 2x #10 Washer 2x #10 Nut
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Imperial**Installations Notes:**

- Maximum tightening torque: **1.25 Nm (11 in-lb)**
- Exceeding the specified torque may cause cracking or permanent deformation of the enclosure housing.
- Check that the mounting surface is flat. It must not vary more than 0.5 mm in height across the entire contact area; otherwise, the housing may bend or become damaged.

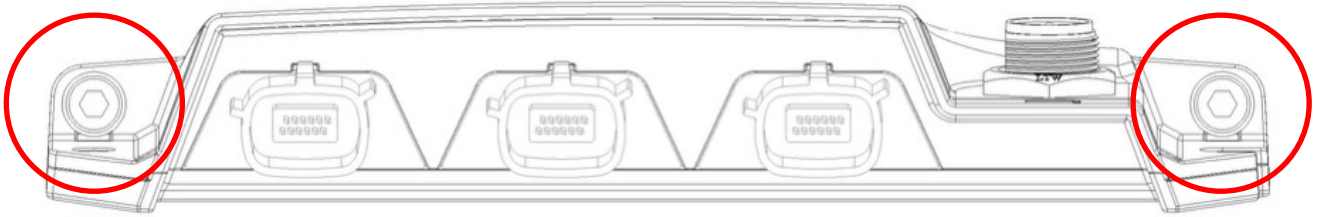
4.1 Primary Mounting

The primary mounting method uses the **horizontal mounting holes** located at the base of the Display Splitter housing. This is the intended and recommended installation configuration.



4.2 Secondary Mounting

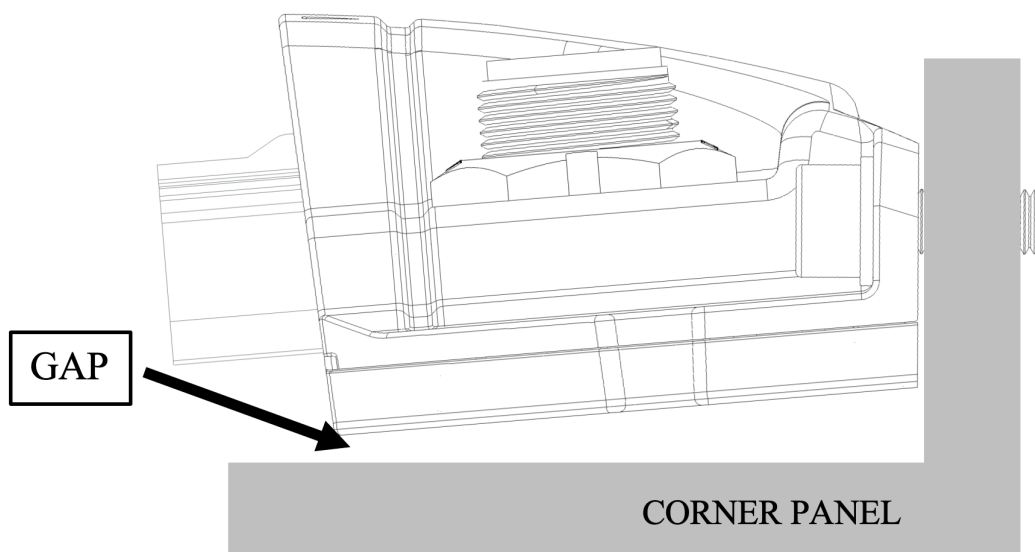
The secondary mounting method utilizes the vertical mounting holes, as opposed to the horizontal holes used for primary mounting. This configuration is intended as an alternative installation option when the primary mounting method cannot be applied.



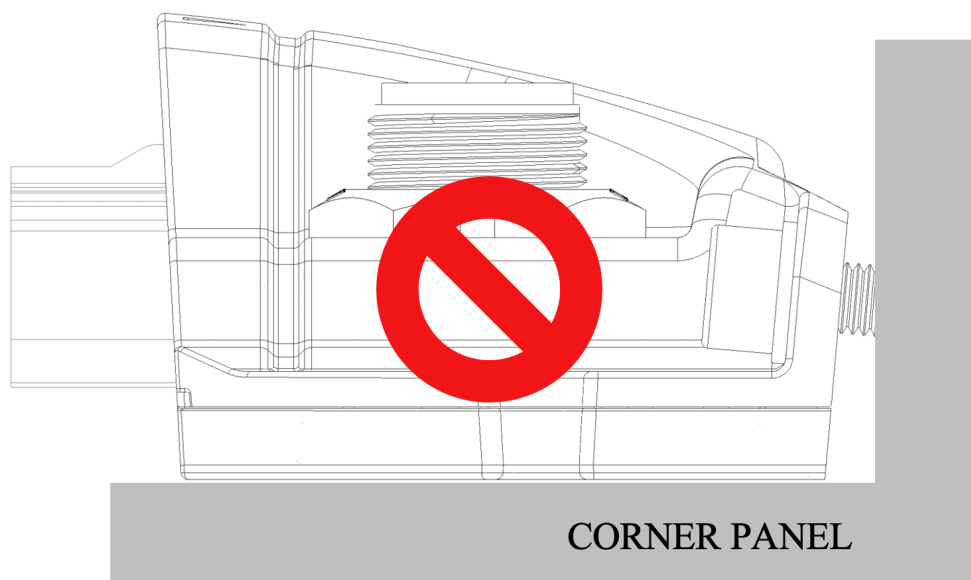
NOTE:

- Extra care must be taken if the Display Splitter is to be mounted in a corner using the secondary mounting holes.
- Ensure a small gap beneath the enclosure base to allow the Display Splitter to rotate freely and self-align perpendicular to the mounting surface.
- Incorrect installation conditions may result in structural damage, including cracking or permanent deformation of the enclosure.

CORRECT INSTALLATION:



INCORRECT INSTALLATION:



5. Disclaimer

The enclosure vent membrane must not be touched, peeled, or otherwise disturbed. Disturbance may compromise environmental sealing and lead to damage of the unit.

