

Mounting Instruction

SENCITY® Rail MIMO+ Antenna



Keep away from catenary and high voltage lines.
Be careful when working at height!
Always secure ladders!
Always tighten screws!



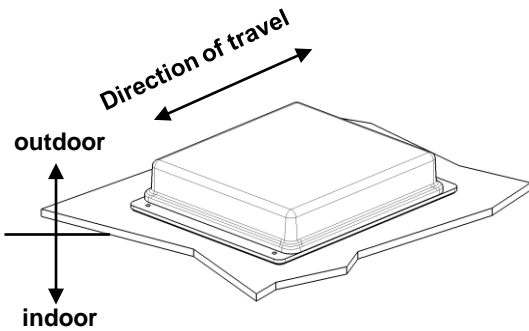
Caution! ESD (electrostatic discharge) sensitive device.
Always ground yourself while handling the GNSS connector.
For more information, see the Security Instruction for this product on the Huber + Suhner website.

Dimensions in millimeter [mm]



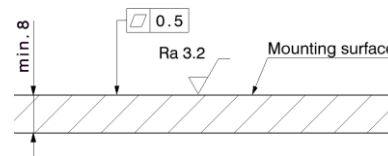
Avoid bringing the cover of the antenna into contact with acetone, gasoline or oil.

Mounting surface

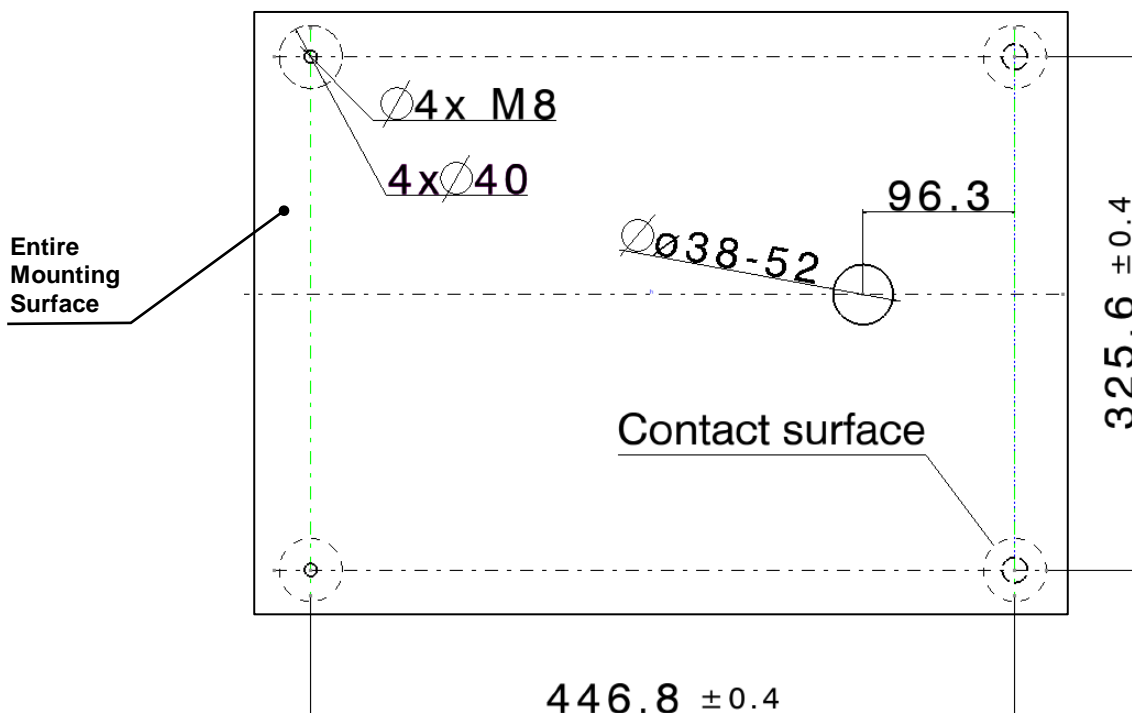


The entire mounting surface shall be planar and stable. The defined flatness of 0.5 should be considered for the entire mounting surface. However, the areas excluding the contact surfaces ($\varnothing 40\text{mm}$) and the cable feed through area (min. $\varnothing 80\text{mm}$) could also be lower (concave). The material of the mounting surface shall be steel or aluminium.

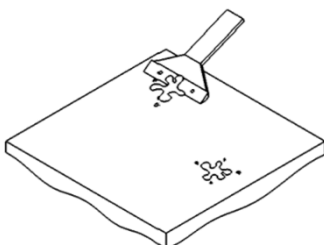
Recommended thicknesses of the contact surface is 8mm (steel) or 12 mm (aluminium).



Drilling of threaded holes and cable breakthrough

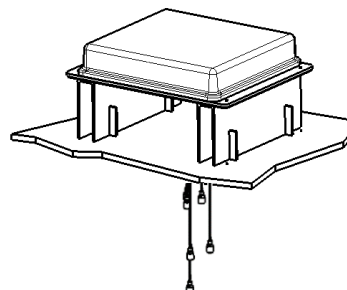


Preparation of roof



1. Clear the area where the antenna is mounted from paint, corrosion or any anodized layer.
2. Clear this area from any dust, brake dust, cutting chip, oil or fat.

Cable feedthrough



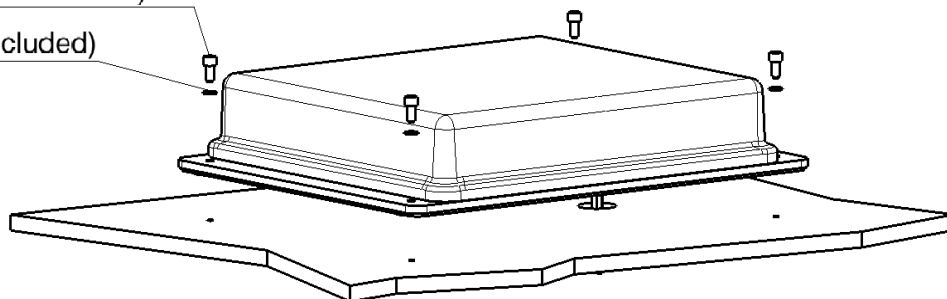
Use parts of the packaging to easily position the antenna above the cable breakthrough as indicated on the picture.

Feed all cables through the hole.

Mounting

4x M8-Screw (Torque with 21 Nm)^{1 2}

4x Sealing washers (included)



¹⁾ For a minimum 8mm thick contact surface, use screws with a minimum length of 18mm.

For a minimum 12mm thick contact surface, use screws with a minimum length of 22mm.

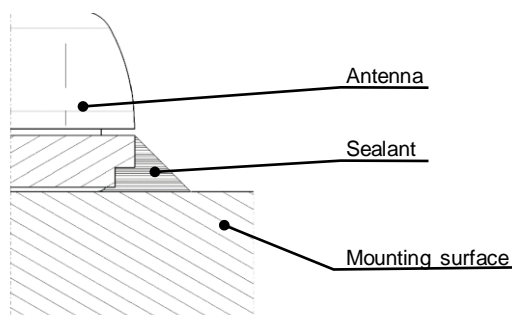
²⁾ Use mounting screws according to ISO 4762. Screws are not included.

Place sealing gaskets in the circled slots in the outer and inner contact surfaces.

Remove the packaging parts and lower the antenna towards the roof.

Sealing

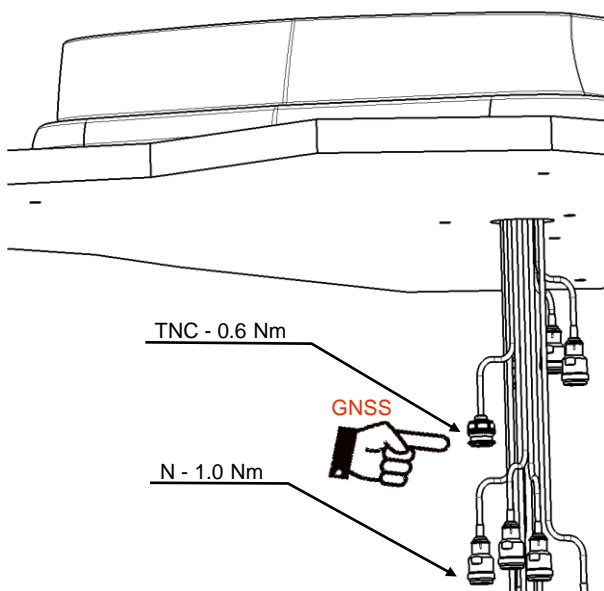
Avoid moving the antenna once it touches the mounting surface.



It is optional to seal the perimeter of the antenna with sealant.

Avoid to apply sealant to the antenna radome.

Connection of cables



Connect the cables. Hold the pigtail connectors during cable attachment. Avoid all tension, torsion and bending forces.

GNSS Connector (if present):

GNSS without LNA (check product datasheet):
Do not apply a voltage as this antenna is DC grounded.



GNSS with LNA (check product datasheet):
Take ESD precautions.
Inner conductor: 3...5 V
Outer conductor: GND

General remarks

In the final position of the antenna, the cable outlet and the connectors need to be protected against environmental impacts (indoor environment).

This product can be returned to HUBER+SUHNER for recycling at the end or its useful life. Please contact your local agent.

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS

www.hubersuhner.com

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