
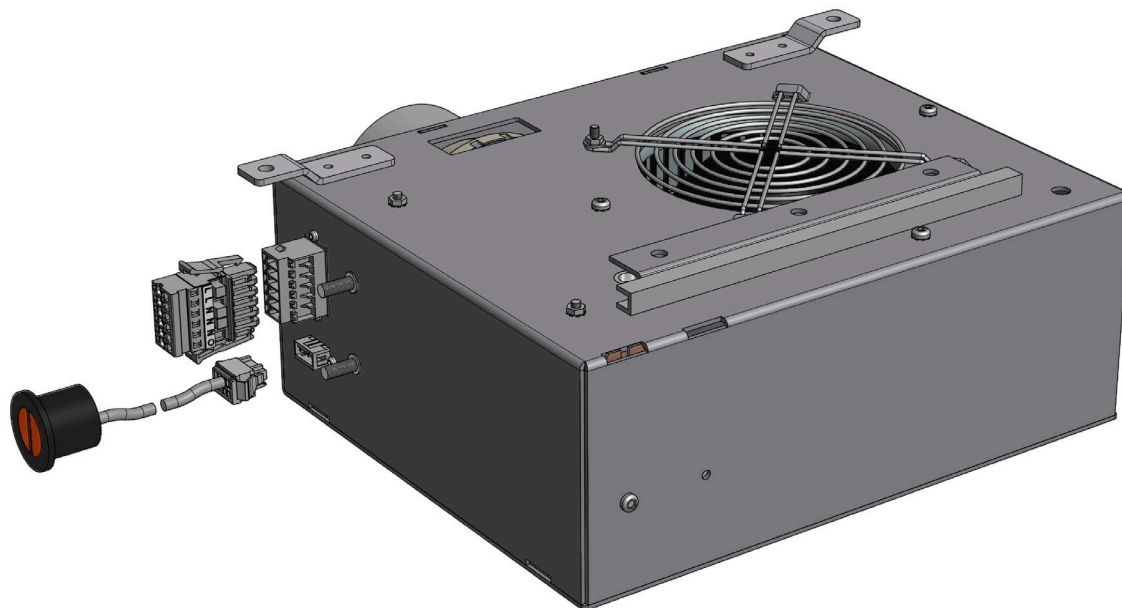


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IDENTIFICATION SHEET

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1 Introduction

This document serves to do provide the customer with the following information regarding the offered DAN DRYER build-in hand dryers:

- Dimensional drawings and brief explanation of key parts
- Guidelines for installation in train toilet compartments
- Manual for the adjustment of the IR sensor detection range
- A short description on how the hand dryer is operated by a user
- A manual for scheduled maintenance
- A troubleshooting guide

2 Hand dryer dimensions

In order to ensure a proper fit of the hand dryer inside the cabinet, dimensional drawings are provided below.

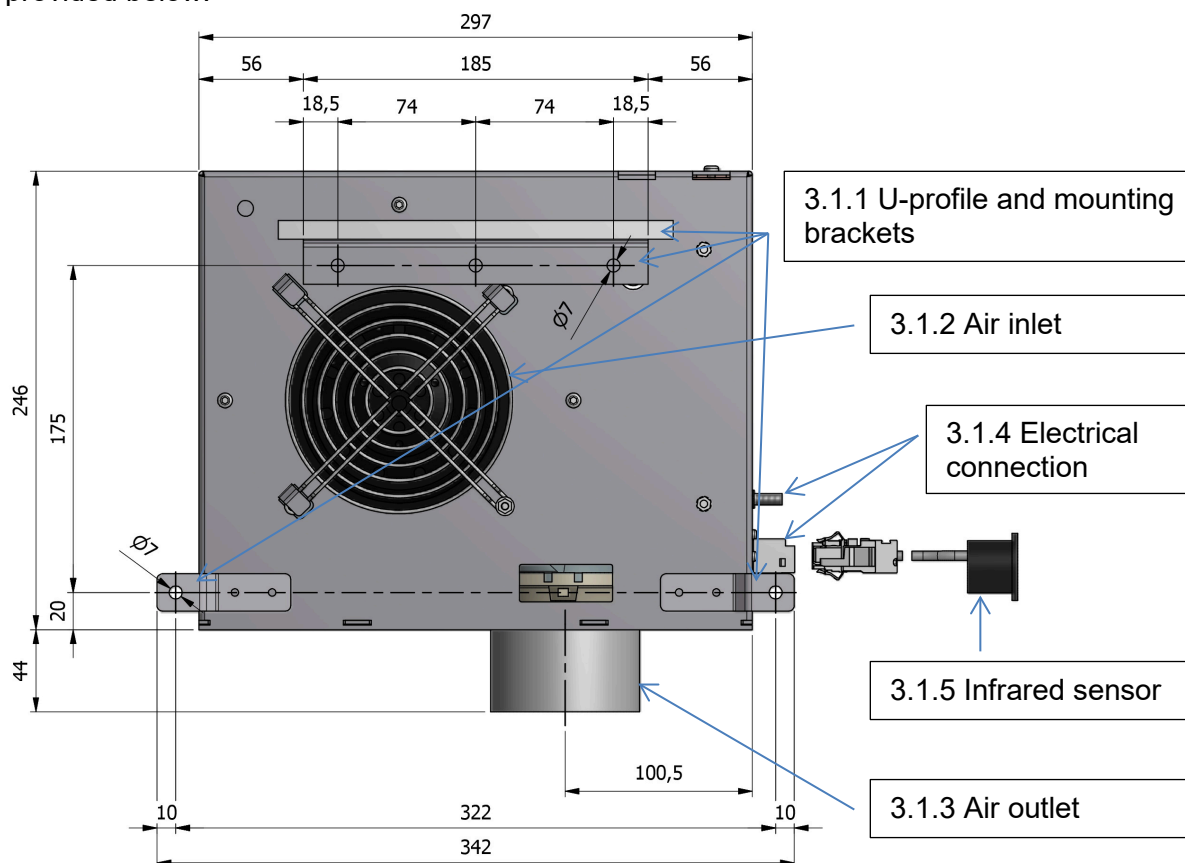



Figure 1 Dimensional drawing of hand dryer -rear view

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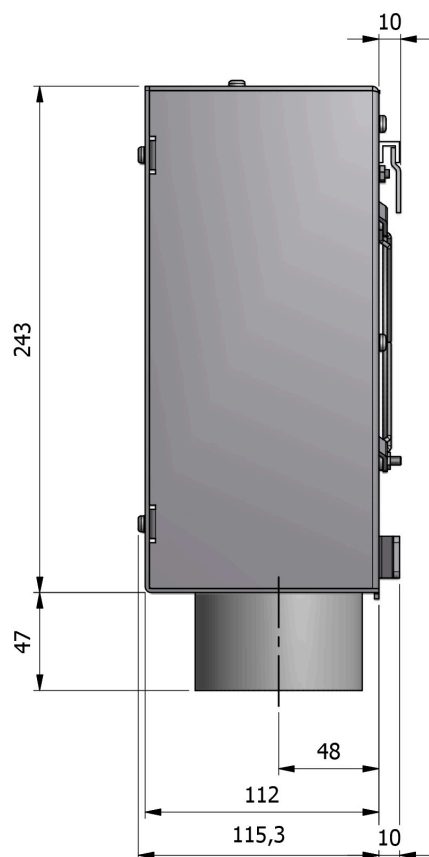


Figure 2 Dimensional drawing of hand dryer -side view

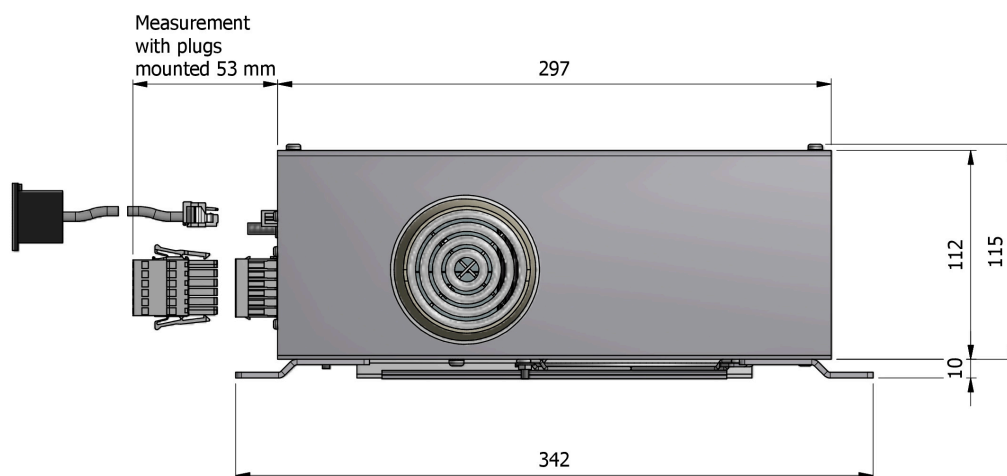



Figure 3 Dimensional drawing of hand dryer -bottom view

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3 Installation instructions and calibration

The offered hand dryers are of the build-in type which means they are to be mounted inside a cabinet behind the mirror usually located above the hand wash basin, thus usually replacing a paper towel dispenser.

3.1 Installation

3.1.1 Mounting on brackets

3.1.1.1 Top brackets

The hand dryer is supposed to be mounted, hanging by the integrated U-profile from either the supplied mounting bracket or from a bracket supplied by the customer if space restraints require this. In order to prevent audible noise from vibrations, a strip of felt can be fastened to the top bracket.

3.1.1.2 Bottom brackets -fixations

For fixating the hand dryer, fasten two M6 bolts through the Ø 7 mm holes in the bottom brackets.

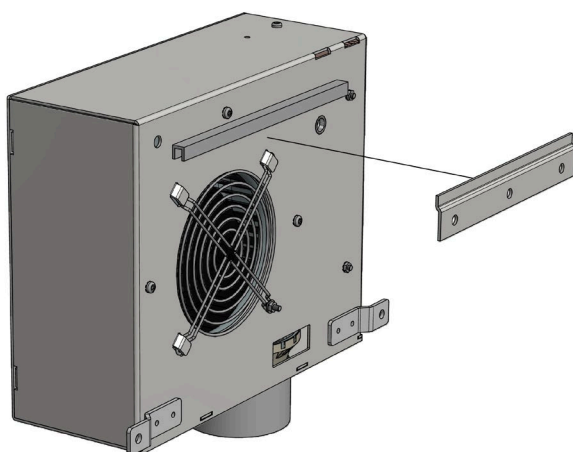



Figure 4 -Illustration of mounting brackets

3.1.2 Air inlet

The air inlet of the hand dryer is to be held as free as possible for maximum airflow. For correct installation, a minimum distance of 10 mm should be kept from the back face of the hand dryer to the mounting face. The 10 mm distance will provide enough free space for the inlet to the hand dryer to ensure a satisfactory airflow. However, any extra space provided around the air inlet, as for example a circular hole in the wall facing the inlet, will increase airflow, and thus provide quicker hand drying.

3.1.3 Air outlet

The air outlet of the hand dryer consists of an Ø 80 mm pipe meant for connection to a flexible aluminium hose with a screw/band clamp (Aluminium-hose and clamp not supplied). Further, the aluminium hose is to be similarly fastened to an outlet grille (not included).

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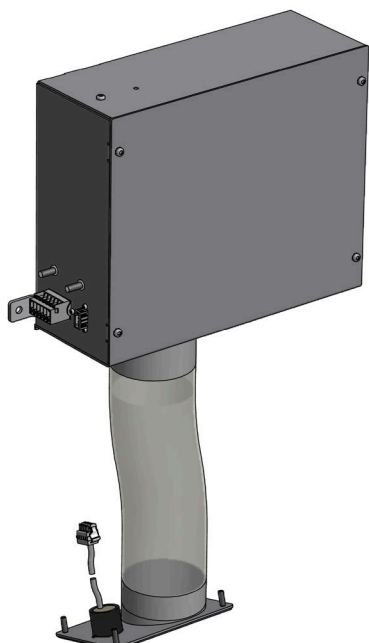


Figure 5 -Example illustration of air hose- and sensor assembly

3.1.4 Electrical connection

3.1.4.1 Power supply connector

The hand dryer is equipped with a power supply connector pair to which [L1] and [N] leads are to be connected in their respective terminals. Further, the earth lead can be connected to the designated terminal in this connector.

3.1.4.2 Earthing studs

If preferred, an earth lead can be connected via ring terminals to one of the two size M6x15 mm earthing studs situated next to the power supply connector.

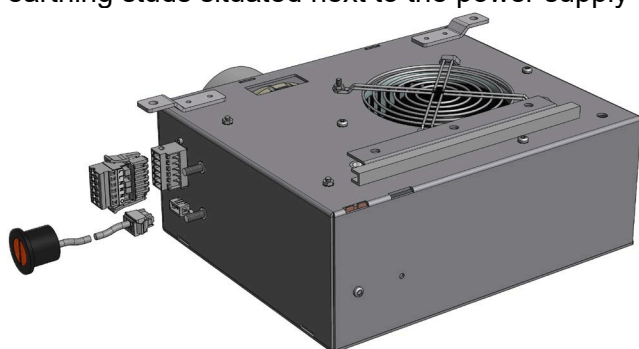



Figure 6 Hand dryer electrical connections

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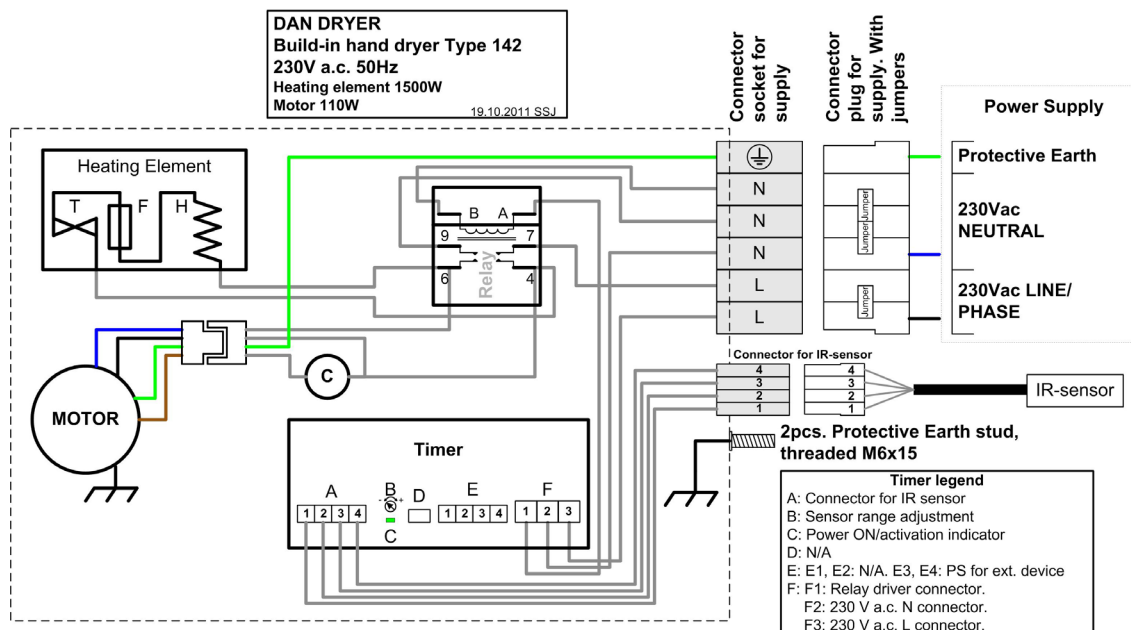


Figure 7 -Hand dryer electrical wiring chart

3.1.5 Infrared sensor unit

3.1.5.1 Connection

The sensor unit included with the hand dryer connects to the appliance with a small 4-pole connector situated next to the power supply connector.

3.1.5.2 Mounting

For panel mounting of the sensor unit, cut a circular panel hole of Ø 28 mm to mount the sensor as close as possible to the outlet grille in order for the sensor to be able to detect a user's hands when placed under the grille (Please see Figure 5 for an example illustration).

3.2 Calibration -IR sensor detection range adjustment

The detection range of the sensor unit is factory pre-set according to customer requirements and should not need further adjustment. If the detection range needs to be adjusted anyway, this can be done with a 3 mm slotted screwdriver on the small potentiometer on the timer unit located inside the hand dryer housing.


4 User manual

4.1 Hand drying

Upon activation by placing hands in the sensor detection zone, the hand dryer will run until hands are removed again with a 3 second delay.

In order to prevent unwanted activations, the dryer has an unnoticeable activation delay of 0,3 seconds.

The hand dryer will automatically stop after app. 3 min continuous use (other timings on request). Activation of the dryer will again be possible when the detected object is removed for more than 3 seconds.

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5 Maintenance

5.1 Preventive- / Scheduled Maintenance

The materials and components of the hand dryer are tested to last the lifetime of the unit. Therefore, no extensive preventive maintenance is required apart from keeping the path of the air flow free from dust deposits.

If the interior air supply of the train consists of air conditioned- and filtered air, experience shows that intervals between cleaning are at least 3 years.

5.1.1 Fan blades

The inlet grille can be easily disassembled in order to clean the fan blades with a small stiff non-scratching brush.

5.1.2 Heating element

After loosening dust deposits from the fan blades with a brush, the easiest way to clean the heating element and remove dust is to apply blows of compressed air backwards into the hand dryer from the outlet side of the unit.

5.2 Corrective-/ Unscheduled Maintenance

A manual for corrective maintenance and troubleshooting can be provided upon request.