

Danfoss e30bv013.10 VLT Mains Free Interface



Danfoss e30bv013.10 VLT Mains Free Interface Installation Guide

[Home](#) » [Danfoss](#) » Danfoss e30bv013.10 VLT Mains Free Interface Installation Guide 

Contents

- [1 Danfoss e30bv013.10 VLT Mains Free Interface](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Item Supplied](#)
- [5 Product Overview](#)
- [6 Installation and Usage](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)



Danfoss e30bv013.10 VLT Mains Free Interface



Product Information

Specifications

- **Model:** e30bv013.10
- **Manufacturer:** Danfoss A/S
- **Connectivity:** USB Type A
- **LED Indication:** Yes

Product Usage Instructions

1. Installation and Usage

1. Description

The product is designed to facilitate communication between a PC and a drive unit. It requires the installation of drivers on the PC for proper functionality.

2. Item Supplied

The product package includes the communication device and necessary cables for connection.

3. Product Overview

The product features front, side, and back views for easy identification of ports and connections. Refer to the illustrations provided for recommended cable examples.

2. Safety Precautions

Before installation or usage, ensure that the product is disconnected from power sources to prevent electrical hazards.

3. Installation

Follow the installation guide provided in the manual to securely connect the device to the PC and the drive unit.

Usage

- **Installing Driver on the PC**

Download and install the required drivers on the PC to enable communication with the drive unit.

- **COM Port Configuration**

Check and configure the COM port settings on the PC. Refer to Illustration 5 for guidance on locating the COM port number.

- **LED Indication**

The product features LEDs for status indication. Refer to Table 1 for an understanding of the different LED statuses and their meanings.

FAQ

Q: How do I know if the product is successfully connected to the drive?

A: The LED will start flashing initially and become solid after a few seconds, indicating a successful connection.

Description

This installation guide explains how to install and use the USB-based VLT® Mains-Free Interface.

Item Supplied

- VLT® Mains-Free Interface (code number: 132B9222)

Product Overview

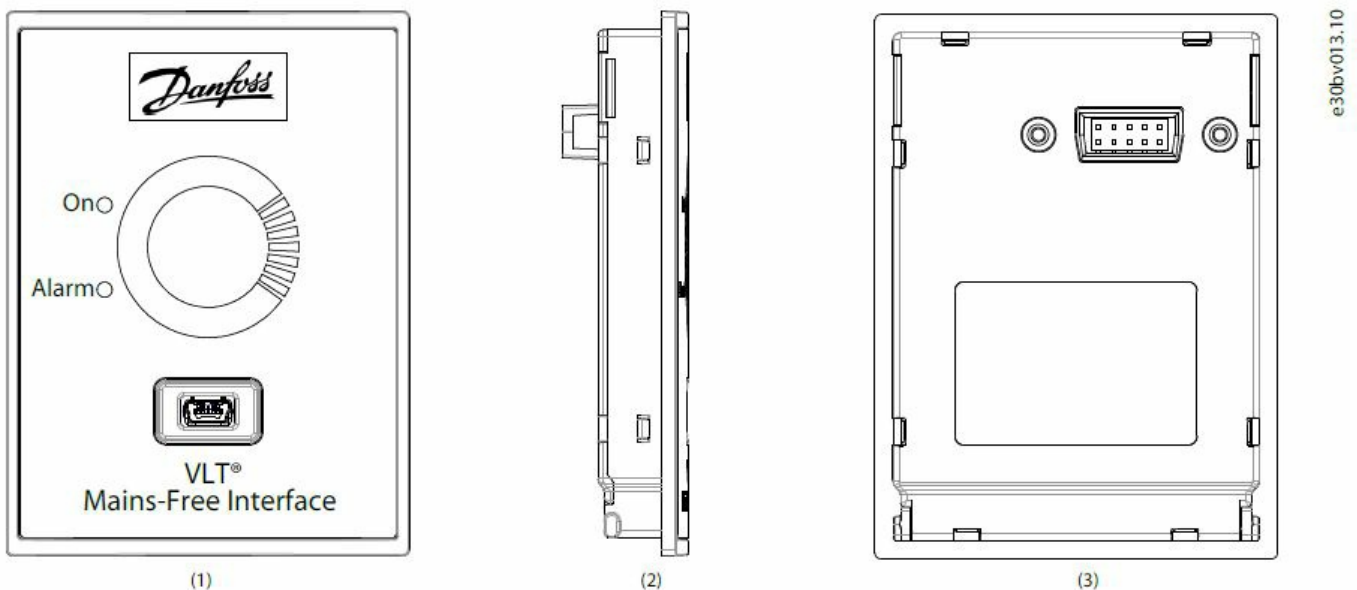


Illustration 1: VLT® Mains-Free Interface

1. Front view
2. Side view

3. Back view

The connection between the VLT® Mains-Free Interface and a PC is based on a USB 2.0 interface. A Mini-B USB connector is located on the front side, and a standard drive connector is located on the backside. Both Vthe LT® Mains-Free Interface and the drive get current from the PC USB ports, thus the drive is mains-free when the VLT® Mains-Free Interface is installed on the drive.

- For drives of enclosure size H1–H5 and I2–I4, the required current is within the standard capability of a single USB port, and a single USB type A connector can be used.
- For drives of enclosure size H6–H10 and I6–I8, more than 500 mA current is required (500 mA is the maximum standard current a USB port can deliver). It is recommended to use a double USB type A cable for connection to a PC. It is possible for the drive to obtain the required current via both of the USB ports (the 2nd USB port is marked with Auxiliary power only).

See Illustration 2 for the recommended cable examples.

NOTICE

The cables are not provided with the VLT® Mains-Free Interface.

Installation and Usage



Illustration 2: Cable Examples

1. Example of a cable with a single USB type A connector
2. Example of a cable with 2 male connectors to the PC

NOTICE

- Connecting the VLT® Mains-Free Interface to a live drive may impair the use of the standard RS485 port on the drive.
- For IP54 drives, the VLT® Mains-Free Interface can be used only for programming. To keep the IP54 level, LCP must be reinstalled.

Safety Precautions

- Only qualified personnel are allowed to install the VLT® Mains-Free Interface described in this installation

guide.

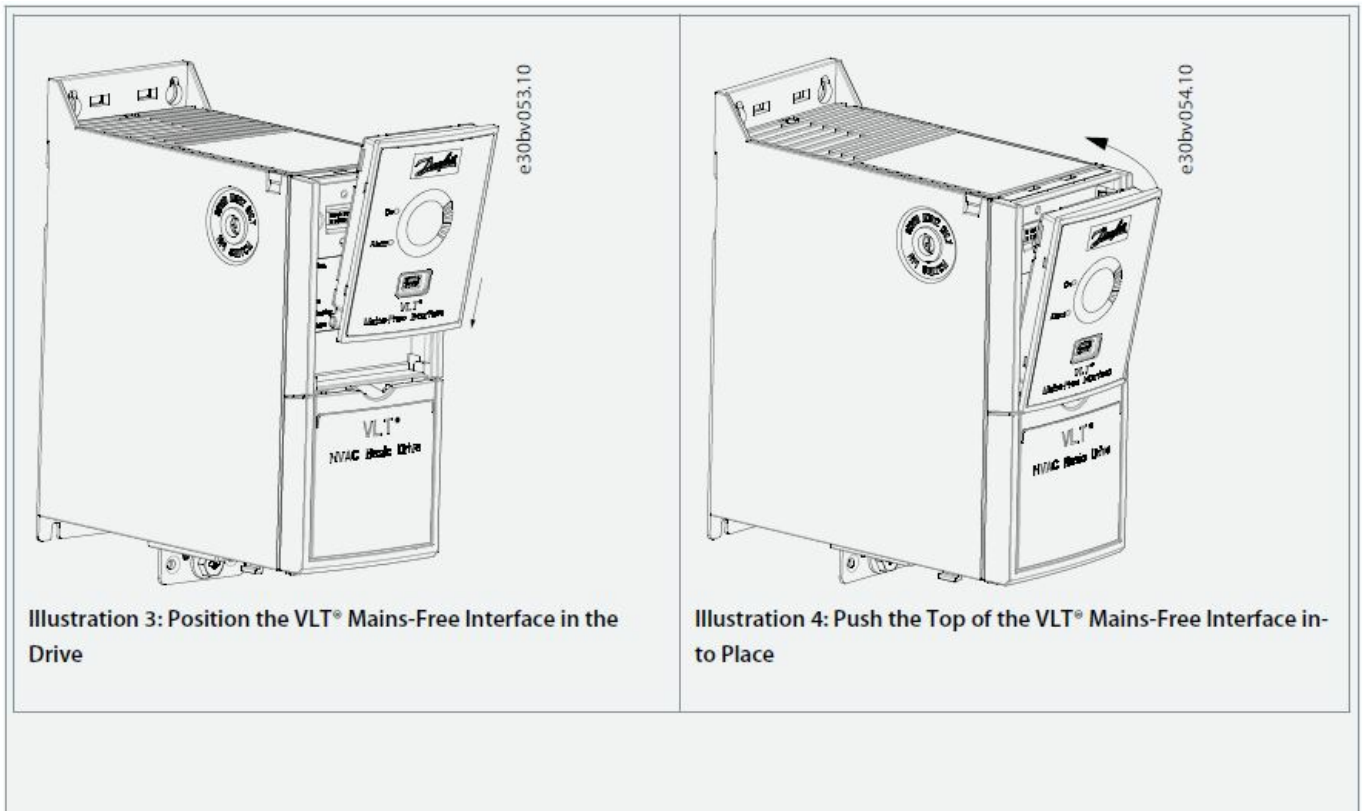
- For important information about safety precautions for installation, refer to the drive's operating guide.

Installation

The VLT® Mains-Free Interface is physically identical to the local control panel (LCP 31) and connects to the same dedicated port on the drive. The VLT® Mains-Free Interface can be mounted to the drive as follows:

Procedure

1. Position the bottom of the VLT® Mains-Free Interface in the drive, see Illustration 3.
2. Push the top of the VLT® Mains-Free Interface into place, see Illustration 4.



NOTICE

The VLT® Mains-Free Interface can also be connected to the drive using the remote mounting kit cable or the RJ45 converter plugs.

Usage

Installing Driver on the PC

Before connecting the VLT® Mains-Free Interface, install the correct driver on the PC first. Download the following files from the Danfoss website <https://suite.mydrive.danfoss.com/introduction>.

- For Win7 32-bit operating system, use dpinst_x86.exe.
- For Win7 64-bit operating system, use dpinst_amd64.exe.
- For Win10 32-bit operating system, use dpinst_x86.exe.
- For Win10 64-bit operating system, use dpinst_amd64.exe.

NOTICE

The minimum software versions to use the VLT® Mains-Free Interface is 4.23 on the drive, 10.11 on the test monitor, and 1.00 or later of the VLT® Mains-Free Interface for firmware download and parameter/SIVP programming.

COM Port

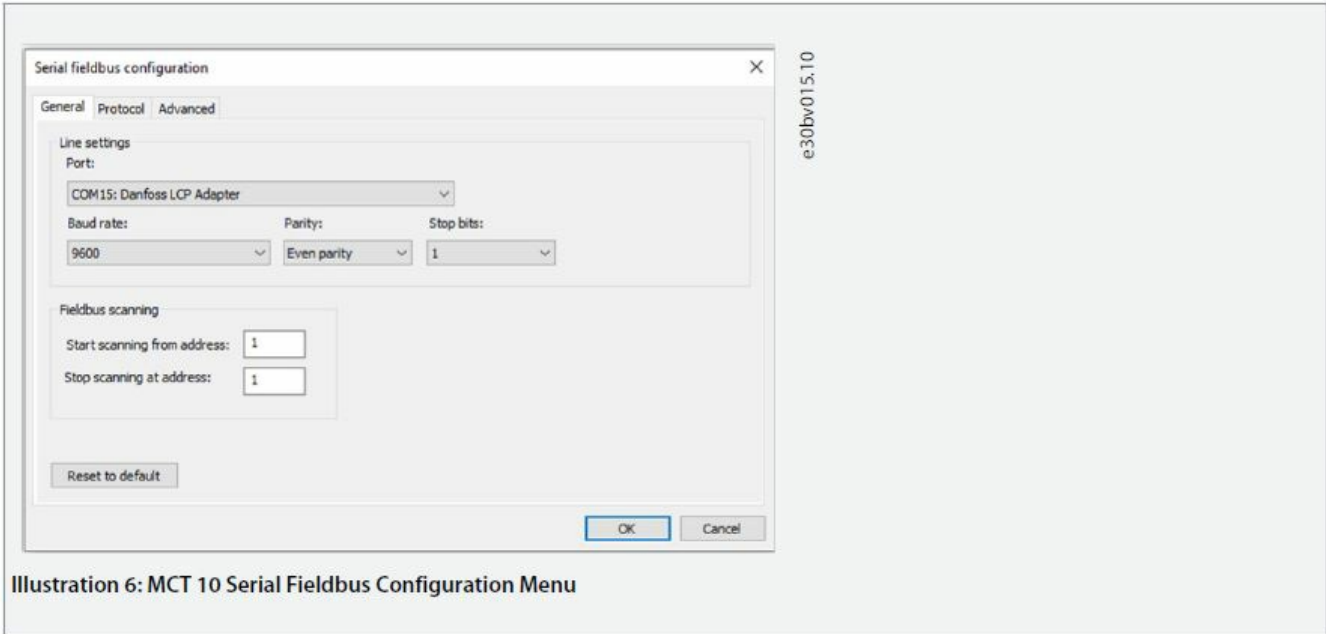
Before configuring the COM port, the VLT® Mains-Free Interface must be installed on the drive and the correct driver must be installed on the PC.

Procedure

1. Connect the VLT® Mains-Free Interface to the PC using the recommended cable.
 - A COM port named Danfoss LCP Adapter is created when the VLT® Mains-Free Interface is connected to a PC.
2. Check the COM port number in Device Manager as shown in Illustration 5.



3. The COM port created by the VLT® Mains-Free Interface can be used with the Danfoss PC communication tool (VLT® Motion Control Tool MCT 10) or any standard terminal communication software. See the following example:



LED Indication

After the successful connection between the VLT® Mains-Free Interface and PC, the green LED at the front of the VLT® Mains-Free Interface indicates the connection status, see Table 1.

Table 1: LED Indication

LED status	Description
Starts flashing, and becomes solid after a few seconds.	Successful connection to the drive.
Keeps flashing.	Incompatibility between the drive software and the VLT® Mains-Free Interface.

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- vlt-drives.danfoss.com.

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Documents / Resources

	Danfoss e30bv013.10 VLT Mains Free Interface [pdf] Installation Guide e30bv013.10 VLT Mains Free Interface, e30bv013.10 VLT, Mains Free Interface, Free Interface, Interface
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References

- [Global AC drive manufacturer - Danfoss Drives | Danfoss](#)
- [MyDrive® Suite](#)
- [User Manual](#)

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