HDL-MFAN04.432
4CH Electric Fan Controller

Datasheet
Issued: May 7, 2019
Edition: V1.0.0



Figure 1. 4CH Electric Fan Controller

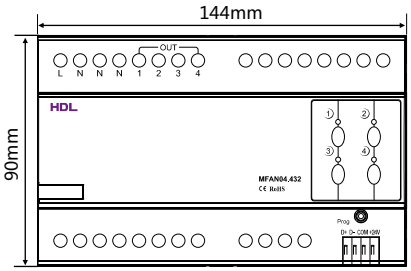


Figure 2. Dimensions - Front View

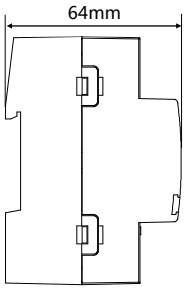


Figure 3. Dimensions - Side View

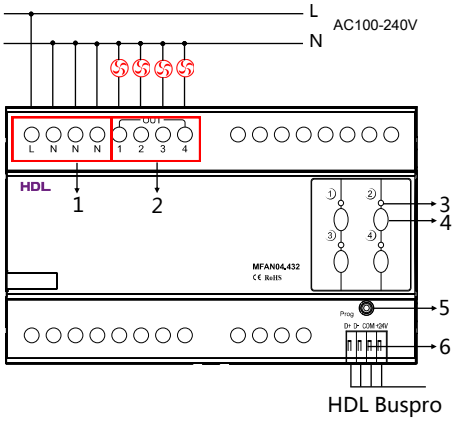


Figure 4. Wiring

Overview

4CH Electric Fan Controller (See Figure 1) specially designed fan control module, with 9 output fan speeds for each channel (0 means off, 8 means fastest fan speed). Smart control of fan speed level is supported through controlling via smart control panel.

Functions

- Supports four fans simultaneously
- The fan controller can be controlled via an HDL panel.
- Each channel can output 0-8 fan speeds; 0 means off and 8 means fastest fan speed.
- Fan speed control through different voltage output
- Supports easy programming
- Supports online upgrade
- HDL Buspro communication

Important Notes

- Buspro cable - CAT5E or dedicated HDL Buspro cable
- Buspro connection - Series connection (hand-in-hand recommended)
- Installation - 35 mm DIN rail installation
- Check connection - Check all connections after installation, ensure they are correct.
- It should be used in conjunction with panel. The target parameter configuration should be single channel control. The speed of the fan is set as 0-8.
- Different power load leads to different output voltage.
- Maximum rated load of each channel: 80W

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

1. 110V/230V AC input.
2. Output channels. Each channel can connect to 1 electric fan, and output 8 speeds.
3. LED Indicator– indicates the state of each channel.
4. Manual push button to control output channel,
5. Programming button and LED indicator:
   To set the device address, press the programming button for three seconds.
   The LED indicator will then turn red showing that the address can now be modified via the HDL Buspro Setup Tool.
6. HDL Buspro interface, ensure the wire connection is compliant to the definition.

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.
Step 2. Buckle the bottom cap of the controller on the edge of the DIN rail.
Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be installed with DIN rail in DB box. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.
- It is not allowed to exceed the range.

Package Contents

HDL-MFAN04.432*1 / Buspro connector*1 / Label*5 / Datasheet*1



Figure 5

1

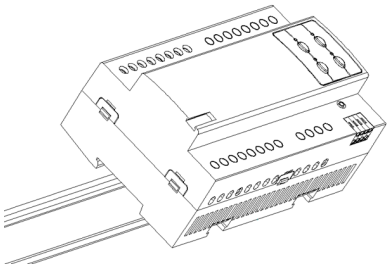


Figure 6

2

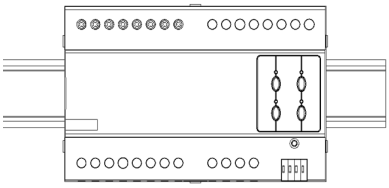


Figure 7

Figure 5 – 7. Installation

Technical Data

Basic Parameters	
Working voltage	18~30V DC
Working current	81mA/24V DC
Input voltage	AC100-240V (50/60Hz)
Rated load	4CH, 80W/CH Max.
Electronic life time of relay	>60000 actuations
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%
Specifications	
Dimensions	144mm×90mm×64mm
Net weight	341g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×

The symbol “-” indicates that the hazardous substance is not contained.

The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.

The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro Cable	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
COM	Black	Brown white/Orange white
24V DC	Red	Brown/Orange

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