



Figure 1. HDL 6 Ports Switch
图 1. 6端口交换机

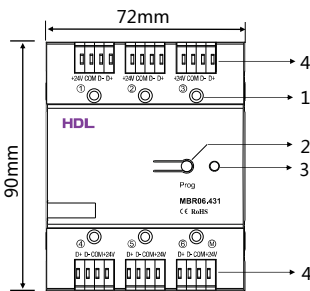


Figure 2. Dimensions - Front View
图 2. 尺寸图 - 正面

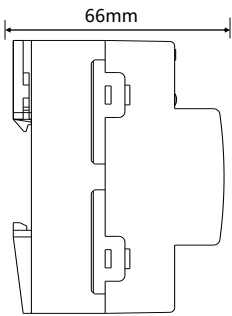


Figure 3. Dimensions - Side View
图 3. 尺寸图 - 侧面

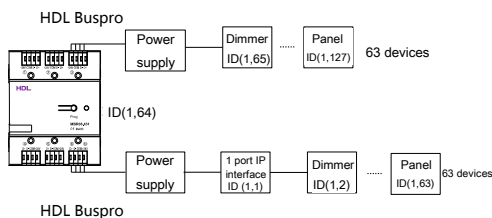


Figure 4. System diagram
图 4. 系统图

Overview

HDL 6 Ports Switch (See Figure 1) works with 1 Port Programming Gateway (HDL-MBUS01IP.431) to expand device connection and is convenient for wiring. Each Bus cable is electrically isolated and data filtering function can reduce data flow.

Functions

- Data filtering
- Data checking
- 6 bus cables supported, up to 63 devices connection supported for each bus cable
- Communication: HDL Buspro

Important Notes

- The subnet ID of this Module and the devices on the bus should be the same as that of the 1 Port Programming Gateway, and the ID of each device should be unique.
- The sixth port should connect to 1 port IP interface.
- In order to work properly, all ports must connect to power supply.
- Each Bus cable can connect up to 63 devices.

Product Information

Dimensions - See Figure 2 - 3

System diagram - See Figure 4 (Take the connection of the third and sixth ports as examples)

1. Indicator: Turns green when working properly, flashes in red during communication
2. Programming button: Press for 3s, indicator turns red. Then users can modify module address via HDL Buspro Setup Tool
3. Indicator: Flashes at an interval of 3s when module works properly. Turns red when reading or modifying address.
4. HDL Buspro interface

Installation - See Figure 5 - 7

- Step 1. Fix the DIN rail with screws.
- Step 2. Buckle the bottom cap of the HDL 6 Ports Switch 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.

Package Contents

HDL-MBR06.431*1 / Buspro connector*6 / Label*5 / Datasheet*1

产品概述

6端口交换机 (见图1) 与1端口交换机 (HDL-MBUS01IP.431) 配合使用, 用于设备连接的扩展, 便于接线。每条总线之间实现电气隔离, 并有过滤数据的功能, 减小数据流量。

功能说明

- 数据过滤
- 数据流量查看
- 支持6条总线, 每条总线可以接最多63个设备
- 通信方式: HDL Buspro

注意事项

- 该模块及总线上所连接的设备必须与一端交换机的子网ID相同, 并且每个设备的设备ID不能相同。
- 该设备的端口6与一端交换机连接。
- 为保证该模块工作, 6个端口必须接电源。
- 每条总线上设备不能超过63个。

产品信息

产品尺寸- 见图 2 - 3

系统图- 见图 4 (以第3和第6端口连接为例)

1. 指示灯: 正常时亮绿灯, 数据通讯时红灯闪烁。
2. 编程按键: 按该按键约3S, 工作指示灯变成红色长亮, 此时可以在HDL Buspro软件中修改本模块地址。
3. 指示灯: 正常工作时绿灯约3S闪烁一次, 读取修改地址时红灯长亮。
4. HDL Buspro接口

设备的安装 - 见图 5-7

- 步骤1. 用螺丝固定导轨。
- 步骤2. 将6端口交换机底盖的一端扣到导轨的边上。
- 步骤3. 将整个模块压到导轨上, 并滑动模块直至调整到合适的位置则固定下来。

安全警告

- 本设备的安装及调试工作必须由我司或我司指派的机构进行。其电气安装的计划和施工, 必须遵守当地相关的安全标准和法规。
- 该产品需以导轨安装方式, 安装在电箱里, 未按照本说明书进行安装及接线方式的, 所造成的一切后果皆与我司无关。
- 请不要私自拆装或更换零部件, 否则可能会导致机械故障、电击、火灾或身体伤害。
- 请将一切维修工作交由我司售后部门或指定机构进行, 本产品的保修范围不适用于因用户拆卸产品而导致的故障。

装箱清单

HDL-MBR06.431*1 / 总线接线端子*6 / 标签纸*5 / 说明书*1

Technical Data

Electrical Parameters

Working voltage	12~30V DC
Working current	15mA/24V DC
Ports	6
Devices for each port	0-63
Communication	HDL Buspro

External Environment

Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications

Dimensions	72mm×90mm×66mm
Net weight	139g
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	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

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 "x" 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 Bus/KNX	CAT5/CAT5E
COM	Black	Brown White/Orange White
DATA-	White	Blue White/Green White
DATA+	Yellow	Blue/Green
24V DC	Red	Brown/Orange

技术参数

电气参数

工作电压	12~30V DC
工作电流	15mA/24V DC
总线端口	6
每个端口可接设备数	0-63
通信方式	HDL Buspro

外部环境

工作温度	-5°C~45°C
工作相对湿度	≤90%
储存温度	-20°C~60°C
储存相对湿度	≤93%

产品规格

尺寸	72mm×90mm×66mm
净重	139g
外壳材料	尼龙, PC
安装方式	35mm 丁导轨安装 (见图5-7)
防护级别 (符合 EN 60529)	IP20

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑胶组件	o	o	o	o	o	o
五金铜件	o	o	o	o	-	-
螺丝组件	o	o	o	x	-	-
焊锡	x	o	o	o	-	-
PCB组件	x	o	o	o	o	o
IC	o	o	o	o	x	x

- : 表示不含有该有害物质。

o : 表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。

x : 表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

总线定义

HDL Buspro	HDL Bus/KNX	CAT5/CAT5E
COM	黑	棕白/橙白
DATA-	白	蓝白/绿白
DATA+	黄	蓝/绿
24V DC	红	棕/橙



Figure 5 / 图 5

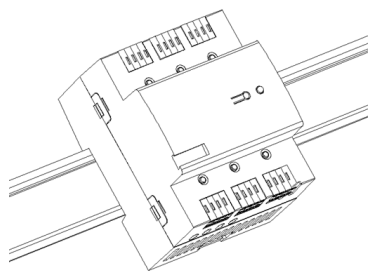


Figure 6 / 图 6

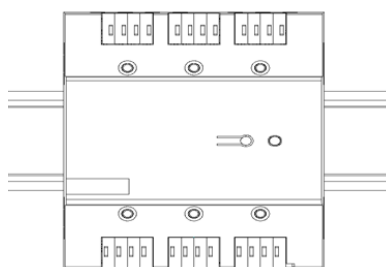


Figure 7 / 图 7

Figure 5 - 7. Installation
图 5 - 7. 安装图

技术支持

服务热线: 020-85820195

(工作时间: 9:00-12:00, 13:00-18:00, 星期一至星期五)

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