HDL®

M/DMX512.1

DMX512 Gateway

Hardware Version: B

KNX®

Datasheet
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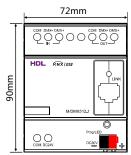

Figure 1. DMX512 Gateway

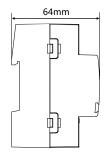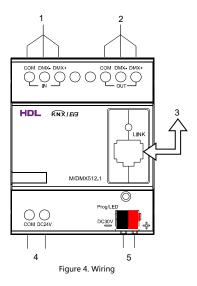

Figure 2. Dimensions - Front View

Figure 3. Dimensions - Side View

Figure 4. Wiring

Overview

DMX512 Gateway (See Figure 1) belongs to HDL KNX/EIB series. The gateway supports two-way control, and can record, play and delete DMX programs. With recording time up to 4 hours, DMX512 Gateway can be widely used to control devices with built-in DMX protocol port for LED color control, for example, computer light, moving head light, laser light, etc.

Functions

- 3 working modes: DMX recorder mode, DMX dimming mode (EIB to DMX) and DMX to EIB conversion mode (1bit, 1byte data point) .
- Supported communication signal: DMX512-1990, ArtNet DMX, HDL NET DMX.
- Store and playback up to 24 programs, with up to 4 hours recording time.
- DMX dimming mode supports switching or dimming for up to 48 channels (controlling DMX device via KNX system available).
- DMX to EIB conversion mode supports switching or absolute dimming for up to 48 channels (controlling KNX system via DMX signal available).
- DMX output signal can be used to control devices with DMX protocol port for LED color control, for example, moving head light, laser light, etc.
- DMX input control functions include: Sequence control, Scene control, Switch control, Relative dimming, Absolute dimming.

Important Notes

- Installation - Distribution box.
- Programming - This device is compliant with the KNX standard and can only be programmed by ETS software.
- Auxiliary power supply - An additional DC 24V power supply should be connected to DMX interface of the gateway.

Product Information

Dimensions - See Figure 2 and 3

Wiring - See Figure 4

1. Input terminal for DMX512-1990

2. Output terminal for DMX512-1990

3. Communication port for ArtNet DMX / HDL Net DMX

4. Terminal for auxiliary power supply

5. KNX/EIB interface

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

Step 2. Buckle the bottom cap of the gateway 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.
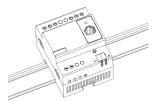
Safety Precautions ⚠ WARNING

- 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.

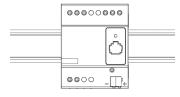## Package Contents

M/DMX512.1*1 / Label*5 / Datasheet*1

Technical Data

Basic Parameters

Working voltage	21~30V DC
Working current	5mA/30V DC
Communication	KNX/EIB
Auxiliary power supply	40mA/24V DC
Cable diameter of KNX terminal	0.6 - 0.8mm
Input / Output signal	DMX512-1990, ArtNet DMX, HDL NET DMX
Terminals used for Line In/ Line Out	1~2.5mm^2 cable

External Environment

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

Specifications

Dimensions	72mm×90mm×64mm
Net weight	189g
Housing material	Nylon
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.

Figure 5

Figure 6

Figure 7

Figure 5 - 7. Installation

KNX Cable Guide

KNX	KNX Cable
+	Red
-	Black