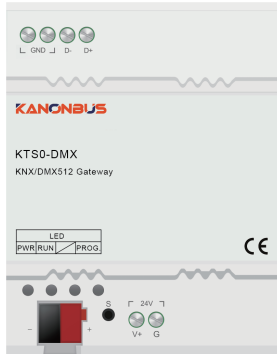


KNX-DMX Gateway

User Manual

KTS0-DMX



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Safety instructions

- Before installation, please read user manual carefully and observe relevant standards, directives, regulations and instructions.
- Electrical equipment must be installed and programmed by qualified technicians only.
- This device is manufactured according to the relevant technical specifications and have CE.
- For more information of this product, please contact the technical engineer of manufacturer.
- Users are not permitted to alter and maintain the product without the authorization of manufacturer.
- Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

Product Overview

The KTS0-DMX gateway adopts a rail-mounted installation method. It can convert KNX signals into standard DMX512 signals and connect with DMX512 decoders to achieve functions such as turning on/off RGB/RGBW and stage lights, adjusting brightness, and changing colors. The KTS0-DMX gateway needs to be connected to a 24V DC auxiliary power supply. Connect the gateway's GND, D-, and D+ terminals to the corresponding terminals of the lighting fixture's DMX512 decoder respectively, and then control the RGB lighting fixtures through the KNX system.

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Product Features

- Suitable for the KNX system to control the lights in the DMX512 system.
- The rules for corresponding group addresses are already integrated, so it can be used without debugging.
- Supports the on/off control, relative dimming, and absolute dimming of 255 DMX channels. The relative and absolute dimming speeds can be set via ETS.
- Features status feedback.
- Equipped with a master control function for all channels, including on/off control, relative dimming, and absolute dimming.
- Has a scene function: Supports 6 scenes, with each scene supporting up to 16 channels. The scene transition time can be set.
- Can cooperate with the logic function in the KTS host to achieve sequential effects.
- The rated power of the auxiliary power supply is 1W.

Product debugging

The corresponding rules between KNX group addresses and the DMX512 protocol are already integrated inside this gateway, so it can be used without debugging. If you need to make modifications, you can set the relevant parameters through ETS as follows:

- 1.Import the database file into ETS.
- 2.Add the device to the project created in ETS.
- 3.Press the programming button on the device, and download its physical address through ETS. After the download is completed, the red LED indicator will turn off.
- 4.Open the device database, set its parameters, and then download the application.
- 5.If you change the physical address of the device, repeat step 3.
- 6.If you modify the parameter settings, repeat step 4 to implement the new functions.

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Product debugging

The specific corresponding rules are as follows:

Function	Data type	Main group'	Intermediate group	Subgroup	explain
Single channel					
On/off	1 bit	7	0	0-254	channel1-255
On/off feedback	1 bit		1		
Brightness feedback	1 byte		2		
Relative dimming	4 bits		4		
Absolute dimming	1 byte		6		
Master control					
On/off	1 bit	7	0	255	Master control
Relative dimming	4 bits		4		
Absolute dimming	1 byte		6		
Scenario					
scenario	1 byte	7	7	0	scenario1-64
Note: The default value of the main group is 7. The first digit (0 - 31) of the group address can be edited via ETS.					
Illustrate with examples					
Group address	value	Function description			
7/0/0	1	Turn on Channel 1 of the DMX decoder.			
7/6/0	255	Set the brightness of Channel 1 of the DMX decoder to 100%.			
7/0/255	1	Turn on all channels of all DMX decoders.			
7/7/0	0	Trigger Scene 1 (configuration is required within ETS).			

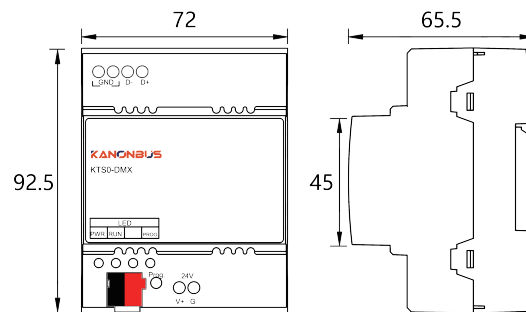
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Product parameters

Parameter	Types	KTS0-DMX
Product Info		
Dimensions (WxHxT)		72mm×92.5mm×65.5mm
Communication transmission medium		KNX TP
Power Supply		24V DC
Type of protection		IP20
Operation		0°C~70°C
Storage		-25°C~70°C
Installation method		Rail-mounted installation
Interface		
KNX		1
Three-wire DMX512 interface		1
Auxiliary power supply interface		1
LED indicator light		
PWR		Working indicator light
RUN		Operating indicator light
PROG.		Programming indicator light

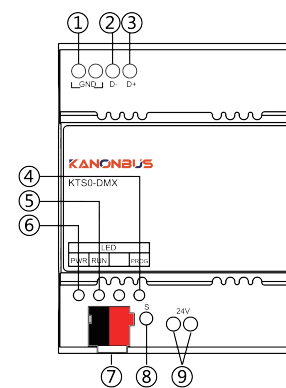
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Product dimensions

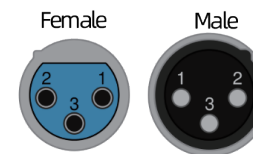


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Operating instructions



- ① GND: Ground terminal of the DMX512 decoder
- ② D-: Negative terminal of the DMX512 decoder
- ③ D+: Positive terminal of the DMX512 decoder



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Operating instructions

KTS0-DMX Port	XLR terminal
GND	1
D-	2
D+	3

- ④ Programming button indicator light: When the programming button is pressed, the indicator light turns red. After the physical address is successfully downloaded, it automatically goes out. It can also be turned on or off via the ETS software.
- ⑤ RUN indicator light: After connecting to the 24V DC power supply, it stays green constantly.
- ⑥ POWER indicator light: After being connected to the KNX system, it stays red constantly.
- ⑦ KNX bus terminal: Used to connect to the KNX system.
- ⑧ Programming button: Press it to write the physical address for the device.
- ⑨ Auxiliary power supply input terminal: A 24V DC power supply is selected. V+ is the positive pole and G is the negative pole.

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