Steel KNX Dimmer-Sequencer actuator

Instructions for use

Art. Nr. S-24903

Safety information:

Fitting and assembly of electrical appliances must only be done by an electrician. Inadherence to the installation instructions could result in fire or other dangerous consequences. The Dimmer-Sequencer-Actuator is a protection rating III device. Be sure that the voltage in the KNX and the primary side correspond to the SELV- values.

Caution:

During installation and maintenance, measures must be taken to prevent a polarity reversal of the supply voltage.

The Dimmer-Sequencer-Actuator 12/24VDC STEEL/KNX KNX is a bus-compatible 3 channel dimmer for use with a KNX/EIB bus. The actuator serves to operate LED lighting devices that are controlled by a controlled voltage.
The device in designed principally with the operation of RGB lighting in mind, for example to create colourful lighting effects or to run a pre-programmed colour sequence.

Input connections, refer to the illustration:
(1) 24VDC terminals for the supply
(2) KNX terminals

Output connections, refer to the illustration:
(5) RGB LED channels

Switches and buttons on the device:

(6) Programming button to program the address
(7) LED signal lights

Technical data

Supply voltage	**12-24 V DC**
Max. output voltage	**2,2 A / channel**
Connection load	**12V DC 80W** **24V DC 155W**
Output short circuit protection	**YES**
Reverse polarity protection	**YES**
KNX transfer rate	**250.000 Bps**
KNX current consumption	**Max. 12mA**
Working temperature	**-5 ℃ bis +45 ℃**
Connections	**KNX / EIB load by means of single wire 0,75-1,5mm, screw terminals**
Output signal	**PWM / 600Hz**

Note:
In order to prevent malfunction, the maximum cable length, supply points, maximum distances etc. must be observed.

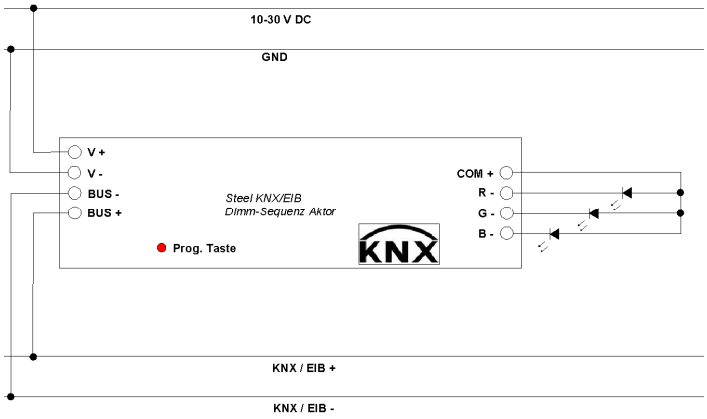
Warranty

We provide a guarantee in accordance with the law. Please send the device (free postage) to our central customer service centre, with a description of the fault.

Function

The dimmer-sequencer-actuator connects high performance LEDs with the KNX/EIB bus. The device can be addressed by the KNX bus and has a program buttons for this purpose.

Dimmer-Sequencer-Actuator wiring diagram



Operating modes:

In the case of interruption in bus voltage:
The device is inactive and cannot be operated. The last mode of operation is present at the ouputs.
In the case of recurrence of the bus voltage:
The device is initialised. During the initialisation procedure the outputs are switched on one after the other for a short time. Then the last value is loaded.
In the case of interruption in supply voltage:
Operation remains active. LEDs do not function.

The device is programmable by means of the engineering tool ETS2 V1.3 or higher or the ETS3. You can find the database of products on our homepage: www.BILTON.at under KNX TOOLS. You can also find the handbook there with a detailed description of the programming procedure.

After successful programming of the device in the KNX bus, the device undergoes an initialisation process, during which the individual outputs are switched on and off in succession.
If the device is addressed but still has no application program loaded, then after initialisation the device is in no definite mode. It is then possible that until an application is loaded, the outputs are witched on and the lighting is active.
Unintentional activation of the lighting can be avoided by turning off the supply voltage.

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