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## **nexgentec ArtNet DMX Blind driver (NGTSLC4ZARTNETBL)**

### **1. Disclaimer**

- Genesis Technologies does provide this driver as it is. There is no commitment to support, nor does Genesis Technologies assure a decent reaction time in case of a problem. Genesis Technologies can refuse all support, discontinue support, end the driver lifetime at any time. Genesis Technologies will not refund in any case licenses
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### **2. What is the nexgentec ArtNet DMX Blind driver? What is it used for?**

This driver is designed to work with the *nexgentec ArtNet Network* (NGTSLC4ZARTNETNW) version 5 and above.

It does add a blind, venetian blind or whatever 2 relay moveable/controllable device to the Control4 project.

### **3. What features does the nexgentec ArtNet venetian Blind driver support?**

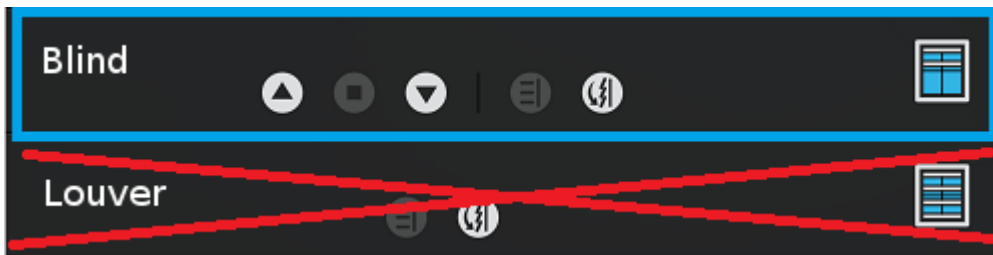
All features of a 2.9+ blind driver are supported.

### **4. Theory of operation / general info**

With C4 OS 2.9 a new blind interface were introduced. This blind will appear in 2 fields on the Navigators. One field is the blind itself (red marked) and the other one are the louver from the blind (green marked)



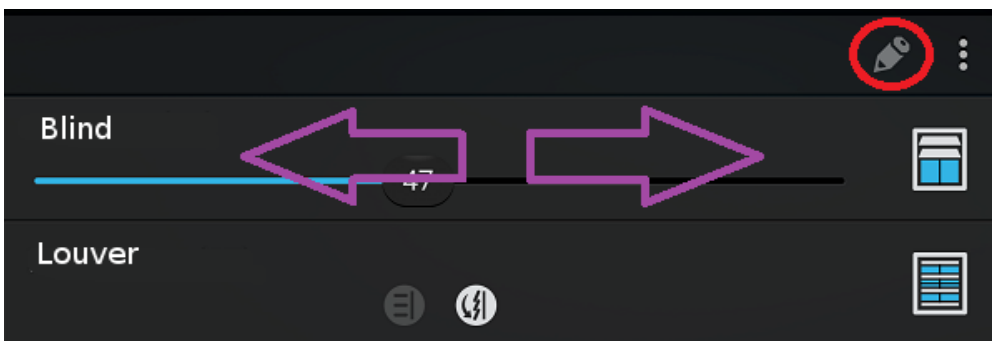
By connecting the louver and the blind part together all buttons from blind and louver can be moved to one field with all buttons (blue marked). Note that the feedback is also merged to one single field on the right and it may behave creative



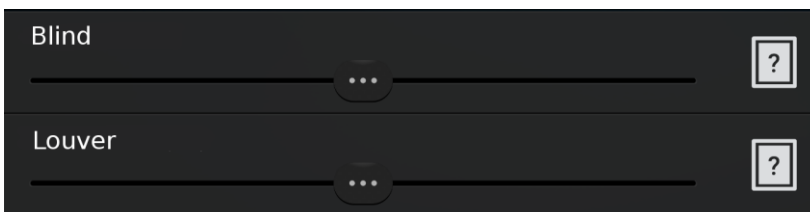
Unfortunately the Navigators don't hide the Louvers field if the connection is done, that has to be done via the room properties in Composer (hide the louver part of the blind) To get the 2 fields merged, simply connect (in Connections) the binding BLIND\_SECONDARY\_CONTROL and refresh Navigators

Control Outputs				
Blind	Control	BLIND_SECONDARY_CONTROL	Output	KNX Louvers (GT)->Louver
Open Button Link	Control	BUTTON_LINK	Output	
Close Button Link	Control	BUTTON_LINK	Output	
Toggle Button Link	Control	BUTTON_LINK	Output	
Stop Button Link	Control	BUTTON_LINK	Output	

In any case the view of the blue or red marked field can be changed to slider view, up/down/stop, etc... view by using the pen symbol and swipe to left and right in the field.



Be aware that the blind have feedback from the slider position and will show an unknown position each time the Controller starts up. As well the toggle buttons will show a question mark. In this status the driver is *uncalibrated*



Once the blind is uncalibrated and moved, it will first calibrate itself, meaning that it will travel to an end position (using the time set in Properties *Moving time up/down (s)*) and then to the level entered.

## 5. Software installation Control4 (new installation)

Assuming that you have already downloaded the drivers and placed them in %USERPROFILE%\Control4\Drivers.

5.1. Start Composer, go to *System Design* and select the tab *Search* in the right top window. Search for *ArtNet venetian Blind*

Locations Discovered My Drivers Search

venetian blind artnet

Local  Online  Certified Only [Clear Search](#)

Category: -- All Categories --

Type: -- All Types --

Manufacturer: -- All Manufacturers --

Control Method: All Methods Sort: Relevance

nextgentec ArtNet Venetian Blind (OS2.9+)  
nextgentec **Local**

5.2. Drag and drop the *ArtNet Blind* driver into the wished room. Click on it and find the Properties page. (Hovering with the mouse over the Properties will show up hints)

5.3. Properties

### Very important is to set the Proxy properties first!

Set on the 2 parts of the blind, blind and louver, what they should display on Navigators

Blind Type Blind

Blind Movement Up-Down

Keypad Button

Open Any Closed

Open

Blind Type Louver

Blind Movement Open-Close

Keypad Button

Open Any Closed

Open

If you have a standard blind with no louver just ignore the louver section and hide it from the Navigators





- -> Info: Does show the driver health info If no version and *running* is not shown the driver will not work
- Driver name: The product identification of the driver
- Address up / down:
  - For a single blind insert the number of the 2 ArtNet channels that should be controlled for up and down.  
For multiple blinds each field takes the channels using the separation by comma: 1,2,3
  - If multiple channels in a sequence should be controlled the format with a dash can be used: 2-9 will control channel 2, 3, 4, 5, 6, 7, 8, 9.
  - For special use is the format: 1-30s3. It means the range from 1 until 30 in series of 3. This example will result in the control of channel 1, 4, 7, 10, 13, 16, 19, 22, 25, 28.
  - Also combinations of all formats are allowed: 1,2,3,103-113,480-512s3

Feedback if multiple channels entered: The lowest channel for up/down is receiving feedback values and does act as master for all other channels.

- Moving time up/down (s): **Measure the time the blind travels for both directions using a stop timer on your phone. Insert the correct values (do not exceed the values a bit, full moves will be extended by the driver itself by 10%)**
  - Louver open after blind up (%): Set the percentage of the louver openness after a blind travel up. (not end position)
  - Louver open after blind fully up (%): Set the percentage of the louver openness after a full blind travel, blind is in upper end position
  - Louver open after blind down (%): Set the percentage of the louver openness after a blind travel down. (not end position)
  - Louver open after blind fully down (%): Set the percentage of the louver openness after a full blind travel, blind is in lower end position
  - Louver steps open / close: How many steps the blind has to do to open or close the louver
  - Louver step duration (ms): Set the duration of the slat steps. If set too fast the blind may not react.
  - Toggle button can stop: Default C4 behavior is that the toggle button does work like up/down/up... If set to true it does work as up/stop/down/stop/up...
  - Repeated cmd stops moving blind: Select if a press on up/down/slider/keypad does stop the already moving blind. If true a repeated push to up/down or a slider/keypad command will stop the blind. If false the blind will begin to move to the new target immediately.
  - Apply config to...: Except the addresses all settings will be transferred to the selected drivers.
  - Get settings from old ArtNet blind driver...: If version 4 blind drivers were used in the system all common settings can be overtaken from them
  - -> Log / Lua window: Selects the log level printed out in Lua window from Composer. Use the level *Debug* to see what the driver does
  - -> Log / Online log server: If a persistent problem appears that cannot be solved from the installer support may ask you to activate a decent level. Do not use until support ask you to do so
  - Log period (h): The time frame the log should output
  - Log auth: Developer can give you a code to see more logs. Usually not really interesting, only for in deep debug

#### 5.4. Connections

If the *nexgentec ArtNet Network* was installed before the blind driver, the connections for the ArtNet Network should be done automatically.

Name	Type	Connection	Input/Output	Connected To
<b>Control Inputs</b>				
 ArtNet Network	Control	ARTNET_NETWORK	Input	nexgentec ArtNet Network->ArtNet Network
<b>Control Outputs</b>				
 Top Button Link	Control	BUTTON_LINK	Output	
 Bottom Button Link	Control	BUTTON_LINK	Output	
 Toggle Button Link	Control	BUTTON_LINK	Output	

#### 6. Programming Events

- Standard C4 events

#### 7. Driver actions

- Reset

#### 8. Known issues

See the manual for the *nexgentec ArtNet Network* driver for further information about issues that are known.

#### 9. Updates / Support

Updates are available on: [<<https://technet.genesis-technologies.ch>>](https://technet.genesis-technologies.ch)  
Bugs should be reported to: [info@genesis-technologies.ch](mailto:info@genesis-technologies.ch)