



Q-SYS™



Q-SYS KNX-IP Interface Companion Plugin

Companion for the Q-SYS KNX IP Interface Plugin to easily and quickly create buttons and sliders for lights and blinds.

Version:

| Date (d.m.y) | Programmer | Version | Comments |
|--------------|-------------|---------|-----------------|
| 02.09.2024 | David Conus | 1.0 | Initial Release |

Compatibility:

The plugin was developed and tested with the following configurations:

- Core 110f. (Also tested in Redundancy Mode)
- QDS v9.10.2

Prerequisites:

Have an instance of the Q-SYS KNX-IP Interface Plugin configured in your Design. Then, under 'Script Access', provide a name and set its access level (All or Script).

Connecting to the KNX-IP Plugin:

To begin using the plugin, drag it into the schematic.

Under the 'KNX Plugin Code Name' section of the Companion, enter the Code Name of the KNX Plugin (as indicated above in the 'Prerequisites' section).

For a description of all configurable properties, see "Properties".

Press F5 (or F6 to emulate) to save your design to the Core and run it.

Double-click the plugin to open the setup panel and view its Connection Status.

At this time, the plugin will automatically attempt to connect with the KNX-IP Plugin.

If communication has been established the Plugin will indicate **OK** to his Companion Setup status bar.

For a description of all messages of the Companion Setup status bar, see "Setup Page".

Properties:

KNX Plugin Code Name

Enter the exact name you have given to the KNX-IP Plugin Script Access Code Name.

Number of Lights

Enter the total number of light groups you need. (0 to 100).

Number of Blinds

Enter the total number of blind groups you need. (0 to 100).

Blinds Up/Down Behavior (*only if at least 1 blind has been declared*).

Choose the operating mode for your blinds (Up/Down buttons).



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Short Press Latches:

- Short Push: Up or Down.
- Release after Short Push: No action.
- Long Push: No action.
- Release after Long Push: Stop

Long Press Latches:

- Short Push: No action.
- Release after Short Push: Stop (also used for flap direction).
- Long Push: Up or Down.
- Release after Long Push: No action.

Blinds Long Press Time (*only if at least 1 blind has been declared*).

Select the delay time before the Short Press Latches (Release after Long Push) or Long Press Latches (Long Push) event triggers.

Show Debug

Select 'Yes' to show the Debug Output window. For details, see the Debug Output topic in the Q-SYS Help.

Debug Print

Select an Option depending on which kind of debug information you would like to show on the "Debug Output". For details, see the Debug Output topic in the Q-SYS Help.

Setup Page:

Companion Setup Status bar

Displays the current connection status with the KNX-IP Plugin:

- **OK:** The Companion Plugin is connected to the KNX-IP Plugin.
- **Missing-No KNX Plugin, or incorrect Code Name or its Script Access is not set to 'All' or 'Script'**
 - You do not have a KNX-IP Plugin in your Design, or
 - its Script Access Code Name is incorrect (in the KNX-IP Plugin properties), or
 - its Script Access is not set to 'All' or 'Script' (in the KNX-IP Plugin properties).
- **Missing-KNX Plugin Code Name is empty**
 - Enter the Script Access Code Name of the KNX-IP Plugin.

Note that if there is a communication error with the KNX-IP Plugin, all controls are disabled (grayed out).

Lights (nn-nn) Page:

Name

Friendly Name of the Light Group.

1-bit GA (On/Off) [Group Index]

Position number (index) of the On-Off 1-bit Light Control Group Address configured in the KNX-IP Plugin (for example: 9).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the plugin is not 1-bit [1.*]



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1-bit GA FB (Up/Dn) [Group Index]

Position number (index) of the On-Off 1-bit Light Status Feedback Control Group Address configured in the KNX-IP Plugin (for example: 10).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the plugin is not 1-bit [1.*]

Toggle On/Off + On + Off

Buttons usable in the UCI.

4-bit GA (Dim Up/Dn) [Group Index]

Position number (index) of the Dimmer Up and Dimmer Down 4-bit Light Control Group Address configured in the KNX-IP Plugin (for example: 11).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the plugin is not 4-bit [3.*]

Dim Up + Dim Dn

Buttons usable in the UCI.

1-Byte GA (Brightness) [Group Index]

Position number (index) of the Value 1-Byte Light Control Group Address configured in the KNX-IP Plugin (for example: 12).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

1-Byte GA FB (Brightness) [Group Index]

Position number (index) of the Value 1-Byte Light Status Feedback Control Group Address configured in the KNX-IP Plugin (for example: 13).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

Brightness (%)

Slider usable in the UCI. *

Blinds (nn-nn) Page:

Name

Friendly Name of the Blind Group.

1-bit GA (Up/Dn) [Group Index]

Position number (index) of the Up-Down 1-bit Blind Control Group Address configured in the KNX-IP Plugin (for example: 14).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-bit [1.*]



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1-bit GA (Stop) [Group Index]

Position number (index) of the Stop (also used for step-by-step control of the flap) 1-bit Blind Control Group Address configured in the KNX-IP Plugin (for example: 15).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-bit [1.*]

Up + Dn + Stop + Slat Step Open + Slat Step Close

Buttons usable in the UCI.

1-Byte GA (Position) [Group Index]

Position number (index) of the 1-Byte Blind Position Group Address configured in the KNX-IP Plugin (for example: 16).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

1-Byte GA FB (Brightness) [Group Index]

Position number (index) of the Value 1-Byte Blind Position Status Feedback Control Group Address configured in the KNX-IP Plugin (for example: 17).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

Position

Slider usable in the UCI. *

1-Byte GA (Slat Angle) [Group Index]

Position number (index) of the Value 1-Byte Slat Angle Group Address configured in the KNX-IP Plugin (for example: 18).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

1-Byte GA FB (Slat Angle) [Group Index]

Position number (index) of the Value 1-Byte Slat Angle Status Feedback Control Group Address configured in the KNX-IP Plugin (for example: 19).

If the message 'Invalid Value' appears, you have entered an incorrect value, or the type of this GA in the KNX-IP plugin is not 1-Byte (0-100) [5.001] or 1-Byte (0-255) [5.004] *

Slat Angle

Slider usable in the UCI. *

*** Values of 1-Byte (0-100) [5.001] and 1-Byte (0-255) [5.004] are automatically converted for display on a slider as a percentage (0-100).**



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Controls Pins:

| Pin Name | Value | String | Position | Pins Available |
|---|-------|------------------|----------|----------------|
| Group Blinds > Group Nbr (number of group): | | | | |
| 1-bit-Stop | | (text) | | Input / Output |
| 1-bit Up/Dn | | (text) | | Input / Output |
| 1-Byte Position | | (text) | | Input / Output |
| 1-Byte Position FB | | (text) | | Input / Output |
| 1-Byte Slat Angle | | (text) | | Input / Output |
| 1-Byte Slat Angle FB | | (text) | | Input / Output |
| Button Dn | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Slat Step Close | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Slat Step Open | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Stop | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Up | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Knob Position | | integer | | Input / Output |
| Knob Slat Angle | | integer | | Input / Output |
| Name | | (text) | | Input / Output |
| Group Lights > Group Nbr (number of group): | | | | |
| 1-bit-On/Off | | (text) | | Input / Output |
| 1-bit On/Off FB | | (text) | | Input / Output |
| 1-Byte Brightness | | (text) | | Input / Output |
| 1-Byte Brightness FB | | (text) | | Input / Output |
| 4-bit Dim | | (text) | | Input / Output |
| Button Dim Dn | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Dim Up | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button Off | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button On | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Button On/Off | 0 / 1 | false / true | 0 / 1 | Input / Output |
| Knob Brightness | | integer | | Input / Output |
| Name | | (text) | | Input / Output |
| Companion Status | | (text) | | Output |
| Disable* | 0 / 1 | disable / enable | 0 / 1 | Input / Output |

Disable*: Use this control pin to enable or disable the plugin in your design. When Disabled is set to enabled (value of 1), the Connection Status changes to "Not Present - Disabled".