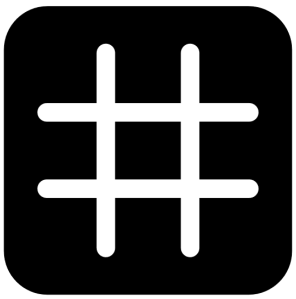
dingz & Loxone



dingz

Configuration

The following examples use the following configuration:

- IP dingz: 192.168.1.99
- IP Mini server: 192.168.1.10

Read the sensors

To read the values of the dingz sensors, it is possible to create a virtual input in Loxone.
These should be configured as follows for the following values:

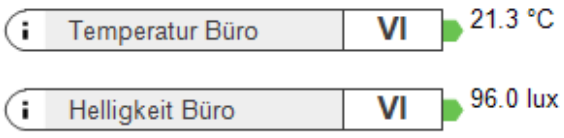
Temperature

Virtual HTTP input / URL: http://192.168.1.99/api/v1/temp
Virtual HTTP input command / Command recognition: "temperature":\v

Luminosity (Lux)

Virtual HTTP input / URL: http://192.168.1.99/api/v1/light
Virtual HTTP input command / Command recognition: "intensity":\t\v

Einstellungen	
Befehlserkennung	"temperature":\v
☐ Fehlerausgang anzeigen	
☑ Werteinterpretation mi...	
Korrektur	
Eingangswert 1	0
Zielwert 1	0
Eingangswert 2	100
Zielwert 2	100
Logging/Mail/Call/Track	
Validierung	
☐ Validierung verwenden	
Simulation/LiveView	
Anzeige	
Einheit	<v.1> °C



Loxone controls the dingz actuators

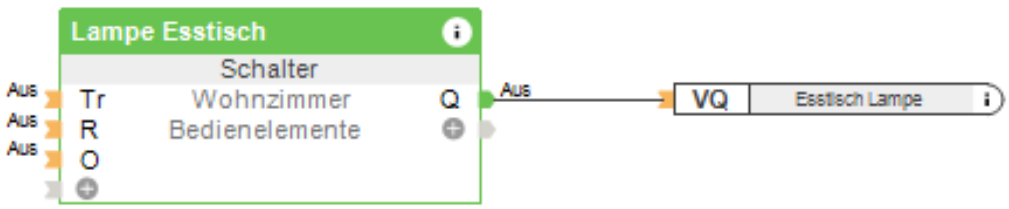
Dimmer

To control the 4 dimmers, a virtual output must be created with the address "http://192.168.1.99". It then receives output commands, here examples when 100% (run) and 0% (stop) are directly controlled.

Command ON:	/api/v1/dimmer/0/on
Http extension:	Content-Type: application/x-www-form-urlencoded
Command http-POST ON:	value=100&ramp=0
Command OFF:	/api/v1/dimmer/0/off
Http extension:	Content-Type: application/x-www-form-urlencoded
Command http-POST OFF:	value=0&ramp=0

With the Ramp, you can still decide the speed of activation and deactivation. Value=100 is the maximum speed, 0 is the minimum speed.

Einstellungen	
Befehl bei EIN	/api/v1/dimmer/0/on
HTTP-Erweiterung bei EIN	Content-Type: application/x-www-form-urlencoded
HTTP-Post-Befehl bei EIN	value=100&ramp=0
HTTP Methode bei EIN	POST
Befehl bei AUS	/api/v1/dimmer/0/off
HTTP-Erweiterung bei AUS	Content-Type: application/x-www-form-urlencoded
HTTP-Post-Befehl bei AUS	value=0&ramp=0
HTTP Methode bei AUS	POST
HTTP-Antwort speichern	
Erste Wiederholung [s]	0
Abstand Wiederholung [s]	0
Als Digitalausgang verwenden	



Blinds

It is possible to reach positions directly according to the API. This is not trivial with Loxone and a bit more complicated, because the intelligence is then in Loxone but also in dingz. For this, a virtual output would be needed as follows.

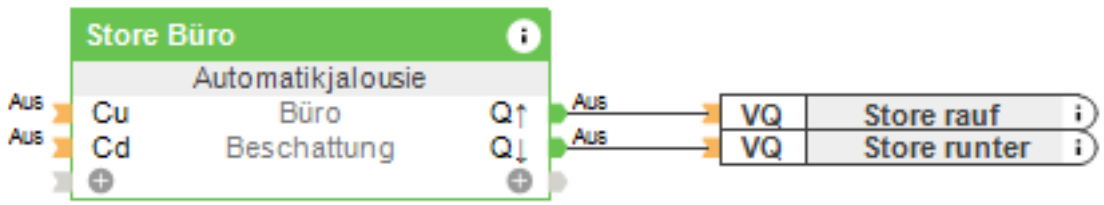
Command ON: /api/v1/shade/0
Http extension: Content-Type: application/x-www-form-urlencoded
Command http-POST ON : blind=0&lamella=0

It is better to use a blind module and use dingz as a simple actuator. The up/down/stop commands are then used and created as follows, here in the example for "Blind open":

Command ON: /api/v1/shade/up
http extension : Content-Type: application/x-www-form-urlencoded
Command http-POST ON : ""

Command OFF: /api/v1/shade/stop
Extension http: Content-Type: application/x-www-form-urlencoded
Command http-POST sur OFF : ""

Einstellungen	
Befehl bei EIN	/api/v1/shade/0/up
HTTP-Erweiterung bei EIN	Content-Type: application/x-www-form-urlencoded
HTTP-Post-Befehl bei EIN	''
HTTP Methode bei EIN	POST
Befehl bei AUS	/api/v1/shade/0/stop
HTTP-Erweiterung bei AUS	Content-Type: application/x-www-form-urlencoded
HTTP-Post-Befehl bei AUS	''
HTTP Methode bei AUS	POST
HTTP-Antwort speichern	
Erste Wiederholung [s]	0
Abstand Wiederholung [s]	0
☑ Als Digitalausgang verwenden	



dingz command Loxone

dingz can directly trigger events on the Loxone mini-server when a button is pressed. These can be registered for the following variants:

- Button 1 to 4
    - Single clic
    - Double clic
    - Long clic
    - Generic
- Input (if defined)
- Motion detector
    - Motion
    - Timmer Off
    - Generic

Define URLs action

To trigger a command in Loxone or in another system, action URLs can be used. Depending on the FW version, this can be done directly in Webinterface under Pushbutton or Motion Sensor. Here you can save URLs for the different cases.

You can also find an overview of the URLs defined under this query: http://192.168.1.99/api/v1/action

Action URLs	
single	[post://test:test@192.168.1.10/dev/sps/io/VI9/pulse]
double	[ ]
long	[ ]
generic	[ ]

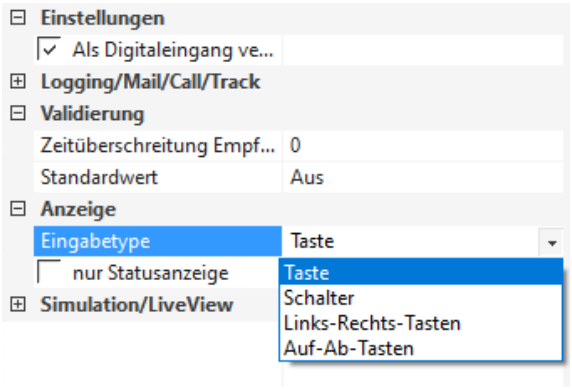
It is also possible to do this very easily via CURL (or Postman and other tools). To do this, open the terminal (Mac) or CMD (Windows) and enter the following line:

curl -d "post://username:passwort@192.168.1.10/dev/sps/io/VI9/pulse" http://192.168.1.99/api/v1/action/btn1/single

The first URL is the URL of the dingz to call. The second is the address where the command is defined. In this example, on dingz with IP 192.168.1.99, on a "simple" click of pushbutton 1.

Push button dingz on Loxone

To do this, we must create a virtual input, which receives a "VIx" connection in Loxone. These are clearly numbered, let's start here with input 9: VI9. This one must trigger an impulse when the push button is pressed. To do this, the input must be set in Loxone to "Use as digital input" and the input type must be set to key or switch. Other input types are documented at https://www.loxone.com/dede/kb/webservices/



In this case, the URL is called "post://username:passwort@192.168.1.10/dev/sps/io/VI9/pulse", which is called by pressing button 1 in Dingz. In Loxone, an impulse is triggered in VI9.

A push on button 1 in dingz now triggers an impulse on virtual input 9 of the mini-server

dingz PIR (motion detector) on Loxone

For the motion detector, the principle is the same as above, but to do so, you must first activate this call. "press_release" is disabled by default and can be enabled or disabled as follows.

curl -X POST http://192.168.1.99/api/v1/action/pir/press_release/enable
curl -X POST http://192.168.1.99/api/v1/action/pir/press_release/disable

Consequently, it is necessary to drop the virtual input on dingz (VI10) again with the following command:

curl -d "post://username:passwort@192.168.1.10/dev/sps/io/VI10/pulse" http://192.168.1.99/api/v1/action/pir/single

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