



Configure a Keypad and Turn Light On/Off

This tutorial explains the step by step configuration of the application below :

Connecting a light to a Keypad and turn it on/off by pressing a PIN code in a Keypad and/or through MxManagementCenter.



Document Owner : Sercan ZOR (sercan.zor@mobotix.com)

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1. General Assumptions

Please make sure that you have connected your camera to the network properly and your camera is reachable.

This tutorial assumes that:

The **camera with MxBus interface** is in factory **default configuration** except for **network settings**.

The Keypad is in **factory default configuration** or **reset**.

The MxBus connection between the camera and MxBus devices (Keypad) has been done **properly**.

The light is connected to the only output of the Keypad which is **not self powered**.

The camera has been added to MxMC **properly**.

Please refer to the example simplified diagram of the application at the end of the document.

2. Configuration

Type the IP address of the camera to go to live image.

<http://ipaddress>

2.1. Activate MxBus Modules

Click “Admin Menu” to enter the Admin Menu and then click “Manage MxBus Modules”.

Hardware Configuration

- [Manage Hardware Expansions](#)
- [Manage MxBus Modules](#)
- Signal Out Profiles
- Assign Wires (for lights, door contact, etc.)
- [Image Sensor Configuration](#)

In the “Manage MxBus Modules” Menu, you will see Keypad as “Addressable”.

Devices						
Device Type	Serial Number	SW Version	HW Version	Use in Classic Mode	Status Details	
▼ Keypad	3342041	1.0.7.22	2.3	<input type="checkbox"/>	Addressable	Activate
				Termination	Off	
				Backlighting	Controlled by	
				RFID Encryption Method	3K3DES	
				RFID Reader	On	



Activate the module.



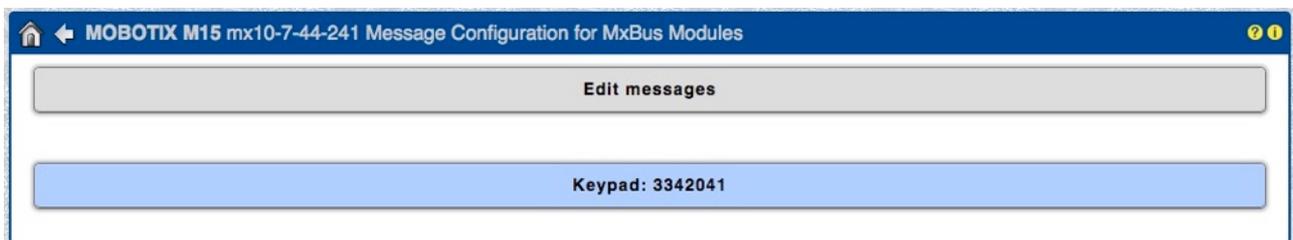
Then, press “Set” and go back to the “Admin Menu”.

2.2. Configure the MxMessages for the MxBus Modules

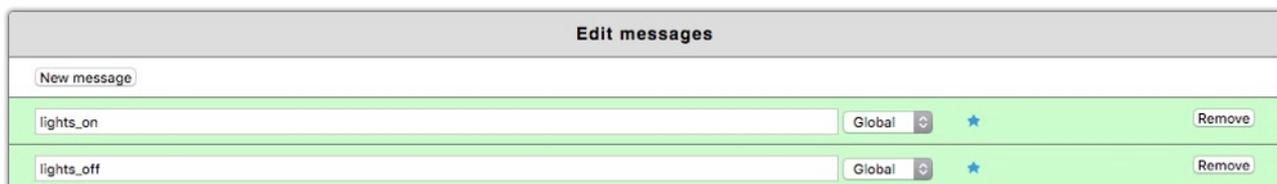
Click “Message Configuration for MxBus Modules” in the “Admin Menu”.



Click “Load Configuration of connected devices”.



Click “Edit messages” and then add your messages (lights_on, lights_off) as in the image below.



(**Note:** The details can be reviewed by clicking the “?” symbol on the top right of the menu)



Then, click Keypad to assign the messages to the output and PIN codes to the messages.

Keypad: 3342041

Audio feedback
[Add](#)

Input 1
[Add](#)

Input 2
[Add](#)

Keypad
[Add](#)

Number	10	lights_on	Remove
Number	20	lights_off	Remove

Visual feedback
[Add](#)

Output 1
[Add](#)

lights_on	On	<input type="checkbox"/> Lock	Remove
lights_off	Off	<input type="checkbox"/> Lock	Remove

RFID
[Add](#)

Authentication
[Add](#)

[Load configuration](#)
[Write configuration](#)
[Create default configuration for this device](#)
[Factory reset](#)

Then, click “Transfer Entire Configuration” at the bottom of the page.

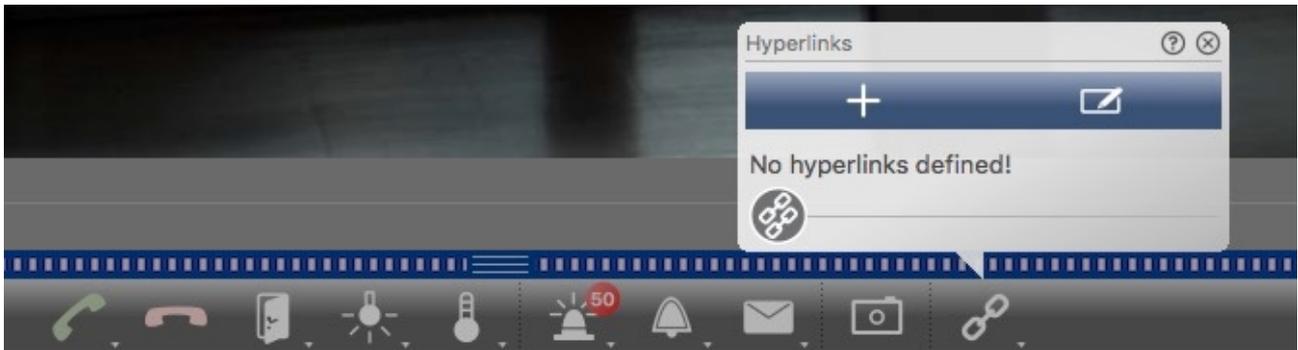
Then, click “Set” and “Close” to store these settings permanently.



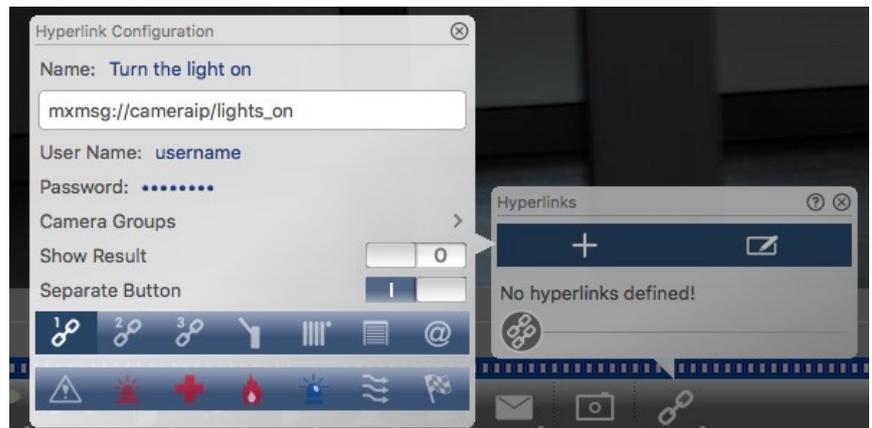
3. Optional Configuration

3.1. Controlling them via MxManagement Center

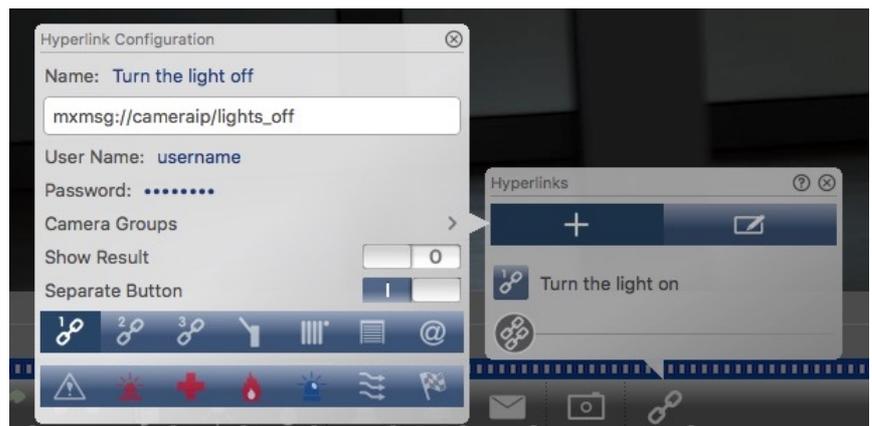
Right click “Hyperlinks” in the Tool Bar in MxManagementCenter.



Click “+” symbol to add a Hyperlink.



(**Note:** “mxmsg://cameraip/lights_on” and “mxmsg://cameraip/lights_off” defines that when this hyperlink button is clicked, then the camera will send the message “lights_on” and “lights_off”)





4. Results and Notes

With these settings,

When "10" is pressed followed by OK in the Keypad, output of the Keypad will be "On".

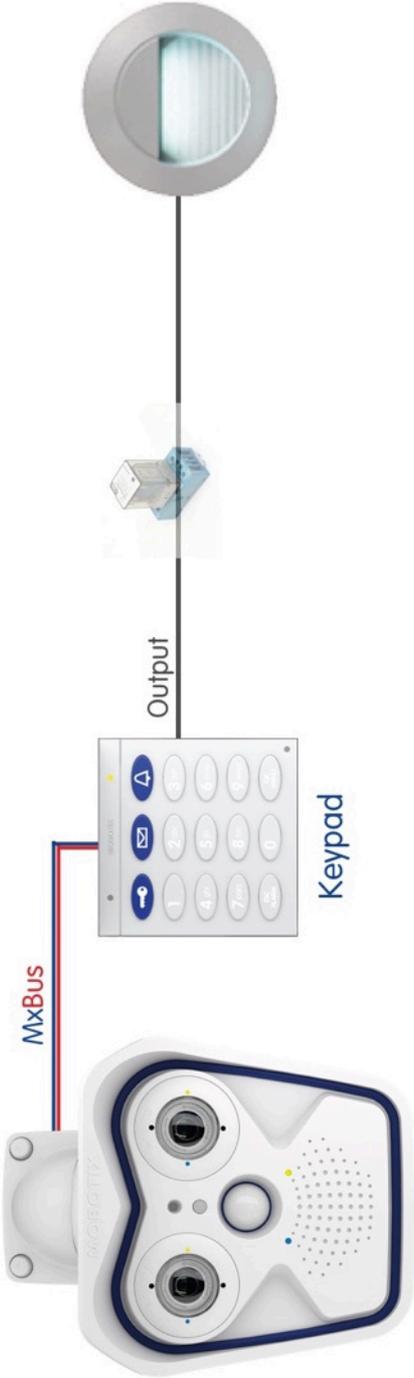
When "20" is pressed followed by OK in the Keypad, output of the Keypad will be "Off".

Always consider the technical specifications of the cameras and MxBus modules and check their brochure to make sure whether you need an additional equipment such as relays, power supplies etc.

Remember that the length of the MxBus cable must not be more than 100 meters (300 feet).

The settings may be changed and adapted differently according to the application.

It is strongly recommended to participate in MOBOTIX Trainings to learn all details concerning configuration and application possibilities.



MxBUS Available in x15/x25 and x16B/x26B Series