Innovations – Made in Germany

The German company MOBOTIX AG is known as the leading pioneer in network camera technology and its decentralized concept has made high-resolution video systems cost-efficient.

MOBOTIX AG • D-67722 Langmeil • Phone: +49 6302 9816-103 • Fax: +49 6302 9816-190 • sales@mobotix.com

Weatherproof Signal Outputs for MOBOTIX Devices

Weatherproof Signal Outputs

• 6 powered outputs 12 V
• 2 isolated relay outputs, can be reconfigured as additional powered outputs 12 V using jumpers

Event-controlled switching of external devices/systems by MOBOTIX cameras via MxBus; can switch 110/230 V devices using suitable relays

Weatherproof (IP65)

–30 to +60 °C/–22 to +140 °F

Installation Instructions

1. Attach the box

Attach the MX-Output-Box at the mounting position with the cable ports pointing downwards (torque 0.4 Nm). Next, remove the box cover (three screws).

2. Establish connection to the camera

• Before proceeding, make sure there is no current on the MxBus wires!

• Cut the MxBus cable to size (2-wire, 0.6 to 0.8 mm diameter). When using wires without jacket, strip the insulation of the wires for 5 mm and push the wires through the eight-wire plug (center).

• When using a cable with jacket, remove the pre-installed eight-wire plug and insert the appropriate cable plug (3 to 5 mm or 5 to 7 mm). Press the rubber plug into the casing in such a way that the rims stick out equally on both sides. Push the cable through the plug, remove the sheath on a length of 15 mm and strip the insulation of the wires for about 5 mm.

• Connect the MxBus wires to the terminals of the MX-Output-Box using the screwdriver. Make sure to maintain the polarity (see sticker in front of the terminal).

• Connect the MxBus wires as described in the corresponding manual to the MOBOTIX camera or to another MxBus module connected to a camera (e.g. KeypadRFID, MX-DoorMaster). Make sure not to exceed the overall length of the MxBus wiring (max. 100 m/110 yd).

3. Connect the peripheral devices

Connect the other wires/cables as required and using the corresponding cable plugs (outputs, MxBus).

4. Tie down the cables

Insert one or two cable ties depending on the attached cables as shown. Pull the cable ties tightly around the cables in order to provide strain relief.

5. Mount the cover

Mount the cover back onto the MX-Output-Box and tighten it using the cover screws (torque 0.4 Nm).

Jumpers of the MX-Output-Box

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Open</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>Out1 isolated (for relay)</td>
<td>Out1 powered output (max. 50 mA/12 V)</td>
</tr>
<tr>
<td>J2</td>
<td>Out2 isolated (for relay)</td>
<td>Out2 powered output (max. 50 mA/12 V)</td>
</tr>
<tr>
<td>J3</td>
<td>Do not use – reserved for future extensions</td>
<td></td>
</tr>
</tbody>
</table>

Connections of Peripheral Devices (Examples)

<table>
<thead>
<tr>
<th>Gateway</th>
<th>Shutters</th>
<th>Alarm system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. 50 m/55 yd</td>
<td>Max. 50 m/55 yd</td>
<td></td>
</tr>
<tr>
<td>Lights</td>
<td>Relay for 110/230 V device (e.g., Eltako ER12-002-UC)</td>
<td></td>
</tr>
</tbody>
</table>
1. **Connect the MX-Output-Box to the camera** (see «Initial Operation of the MX-Output-Box»).

2. **Configure actions**
   - In the Admin Menu, open the Message Profiles dialog (admin access rights required).
   - Set the MxBus Interface as MxBus Interface
   - Expand the MX-Output-Box section at the bottom, click on Edit configuration.
   - Click on the Factory Default button.

3. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

4. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

5. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

6. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

7. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

8. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

9. **Configure additional actions**
   - In the Admin Menu, open the Message Profiles dialog.
   - Select the MxBus Interface and click on OK.
   - Select the MX-Output-Box and click on OK.
   - Select the Action Profile and click on OK.
   - Select the MX-Output-Box and click on OK.

10. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

11. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

12. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

13. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

14. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

15. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

16. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

17. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

18. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

19. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

20. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

21. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

22. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

23. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.

24. **Configure additional actions**
    - In the Admin Menu, open the Message Profiles dialog.
    - Select the MxBus Interface and click on OK.
    - Select the MX-Output-Box and click on OK.
    - Select the Action Profile and click on OK.
    - Select the MX-Output-Box and click on OK.