DIN EN 50155)
IP65 (DIN EN 60529)
Protection class

![Image](https://via.placeholder.com/150)

Options for Connecting to Camera: USB or MxBus

<table>
<thead>
<tr>
<th>Function</th>
<th>Option 1 – USB</th>
<th>Option 2 – MxBus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powered output</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Isolated relay output</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

USB Cables for Connection to Camera:

Option 1: MOBOTIX USB cable to the camera (0.5/2/5 m (1.6/6.6/16.4 ft))
Option 2: 2-wire MxBus wiring to camera (max. 100 m/110 yd)

Technical Specifications:

- Powered output 12 V, max. cable length 50 m/55 yd
- Isolated relay output (AC/DC, up to 50 V/60 W/2 A)
- 2 galvanically separated inputs (AC/DC, self-powered, up to 50 V)
- Operating temperature: –30 to +60 °C/–22 to +140 °F
- IP65 (DIN EN 60529)
- Protection class

Connection of Peripheral Devices (Examples)

- Connection of external sensors and switching of external devices via MOBOTIX cameras; RS232 interface, connection to camera using USB or MxBus
- Door sensors (straight/straight)
- Weatherproof Signal Input/Output (only when connecting to camera via USB cable*)
- Lights (angled/straight)
- Weather Station
- Pan/Tilt head
- Gate
- Door
- Security-Vision-Systems
- ER12-002-UC)

Note

- Only use MOBOTIX USB cables! USB cables are not part of the delivery and are to be ordered separately!
- USB MxBus
- Power supply
- RX, TX, RTS, CTS, GND,
- RS232 interface
- Interface to camera
- USB MxBus
- Power supply
- RX, TX, RTS, CTS, GND,
- RS232 interface
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- USB MxBus
- Power supply
- RX, TX, RTS, CTS, GND,
**Installation Instructions**

1. **Attach the box**
   - Column: Attach the MX-232-IO-Box at the mounting position with the cable port pointing downwards; forefinger 0.5 mm above, remove the screw from the cable port (see also figure 1).

2. **Establish connection to the camera**
   - Remove the cable selecting method/angle switch plug of the MX-232-IO-Box.
   - Flexible MxBus wires (2 to 5 wires) to be used: Fix the MxBus wires to the fixing points on the plate and pull them into the outer sheath (see figure 2).
   - Pull the cable through and secure it with a cable learning (see figure 3).

3. **Establish connection to the peripheral devices**
   - Plug the supplied or existing MxBus wires to the terminals of the MX-232-IO-Box using the screwdriver. Make sure to maintain the polarity (see sticker of MOBOTIX MxBus plug).

4. **Connect the peripheral devices**
   - Connect the MxBus wires as described in the corresponding manual.
   - The max. baud rate of the RS232 cable depends on the cable length and the cross-sectional area of the wires.

5. **Mount the cover**
   - Pull the delivered blue sealing ring over the plug, so that the smaller opening points into the same direction as the plug’s contacts.

6. **Lock the cable in place**
   - Cut the supplied or existing MxBus wires to size (2-wire, 0.6 to 0.8 mm² for the intended use).

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**Initializing the MX-232-IO-Box**

1. **Open the MOBOTIX camera’s user interface in the browser**
   - Enter the IP address of the camera that is connected to the MX-232-IO-Box in the browser (admin access rights required): [www.mobotix.com](http://www.mobotix.com).

2. **Enable MX-232-IO-Box**
   - Click on **Operation I/O Status**.

3. **Connect**
   - Click on **Connect**.

4. **Set up the MX-232-IO-Box**
   - Click on **Change**.

5. **Update SW**
   - Click on **Update SW**.

6. **Power Supply**
   - Click on **Change**.

7. **Change**
   - Click on **Change**.

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**Notes**

- The MOBOTIX MX-232-IO-Box is to be used only for providing signal inputs/outputs and an RS232 interface that connects to the MOBOTIX camera or to another MxBus module connected to the MxBus bus. Use a standard RJ-45 connector (e.g. KeypadRFID, DoorMaster). Make sure not to exceed the max. baud rate of the RS232 cable.

- The MOBOTIX MX-232-IO-Box is designed for MOBOTIX MxBus interfaces and thus cannot be used with other MxBus modules.

- The MOBOTIX MX-232-IO-Box must not be used for power supplies, as it will damage the module.

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**Drilling Template for M12/M25 Wall Mount with MX-232-IO-Box**

[Diagram showing drilling template specifications]