Installation Instructions

1. Find a good location for installing
   Select the location for installing the device so that the objects you want to detect are within the detection area of the box (80° horizontally, 34° vertically). Note that the detection precision is best if the objects are moving perpendicular to the front label of the MX-Proximity-Box.

2. Suitable materials for concealed installation
   This section is only relevant if you want to install the MX-Proximity-Box behind any materials. It is not possible to install the MX-Proximity-Box behind some materials since they absorb or reflect the radar waves (e.g., metal or metal-coated surfaces). Other materials are better suited since they absorb radar waves only slightly (e.g., uncoated glass, plastics, various wood-based materials, drywall). It is highly recommended to test the detection area before installing by covering the front of the MX-Proximity-Box with the material you want to use!

3. Attach the box
   Attach the MX-Proximity-Box at the mounting position with the cable ports pointing downwards. Next, remove the three security screws of the box cover using the enclosed security bit TX10 and remove the cover.

4. Prepare the connection cables
   Before proceeding, make sure there is no current on the MxBus wires!
   Cut the MxBus wires to size (2-wire, 0.6–0.8 mm diameter). When using wires without sheath, strip the insulation of the wires for 5 mm/0.2 in and push the wires through the eight-wire plug (left).
   When using a cable with jacket (e.g., J-Y(St)Y), 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 wire sticks out equally on both sides. Push the cable through the plug, remove the sheath on a length of 15 mm/0.6 in and strip the insulation of the wires for about 5 mm/0.2 in.

5. Connect the MxBus wires to the terminal
   Connect the MxBus wires to the terminals of the MX-Proximity-Box using the screwdriver. Make sure to maintain the polarity (see sticker on the front of the terminal).

6. Mount the cover
   Mount the cover back onto the MX-Proximity-Box and affix it using the cover screws.

7. Connect the MxBus wires to the opposite side
   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/328 ft).

LED Signaling

- LED off
- LED permanently on
- LED blinking

Operating Status
- Not connected
- Regular operation
- Unencrypted communication
- Error during communication

Radar Signal
- Leaving
- Approaching
- Movement

The intensity of the LEDs varies depending on the strength of the reflected radar waves.
If the MX-Proximity-Box had been connected to a different camera before and was not deactivated or reset before detaching, the LED (operating status) may flash and after establishing the connection. In this case, you need to reset the connected and activated MX-Proximity-Box to Factory defaults:

• Remove the box cover.

• Bridge the contact surfaces in the bottom right corner (red circle in figure) using a screwdriver, for example (both LEDs are flashing red/blue with increasing frequency).

• Only remove the bridge if both LEDs of the MX-Proximity-Box are flashing green on/off 3 times to indicate that the process has finished successfully.

• Mount the cover back onto the box.

• Set up the MX-Proximity-Box in the camera (see «Initial Operation of the MX-Proximity-Box»).

Safety Warnings

• This product must not be located in locations exposed to the dangers of explosion.

• Make sure that you install this product as outlined in the installation instructions above.

• The MOBOTIX MX-Proximity-Box is to be used only for detecting movements using radar sensors in IP66 environments.

• Electrical systems and equipment may only be installed, modified and maintained by qualified electricians in accordance with the applicable electrical guidelines. Make sure to properly set up all electrical connections.

• Make sure you adhere to all relevant laws, regulations and that you fulfill all certification requirements.

• Make sure to use only twisted-pair cabling (e.g., J-Y(St)Y plug 3 to 5 mm or 5 to 7 mm) into the casing in such a way that the wires are twisted regularly (blue wire with increasing frequency).

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