Product Announcement
Hardware & Software

March 2017

- **MX-Proximity-Box**
  MxBus Module For Radar-based Detection Of Moving People And Objects

- **MX System Release MX-V4.4.2.5x (For All Cameras x14/24, x15/25)**
  Support For The MX-Proximity-Box, Portuguese Language Option

- **Increased Requirements For Sale Of Thermographic Cameras**
  Implementing Current Export Regulations

- **Revision To Published Prices And Closure Of EU Webshop**
  Pricelists Move To The Partner Section Of The Homepage With Immediate Effect

MOBOTIX

Contents

New MOBOTIX Products From March 2017   **Page**

Please Note: The following document is solely intended for MOBOTIX partners as information and to assist in demand planning and may not be published in its current format (in digital form or as a hard copy).
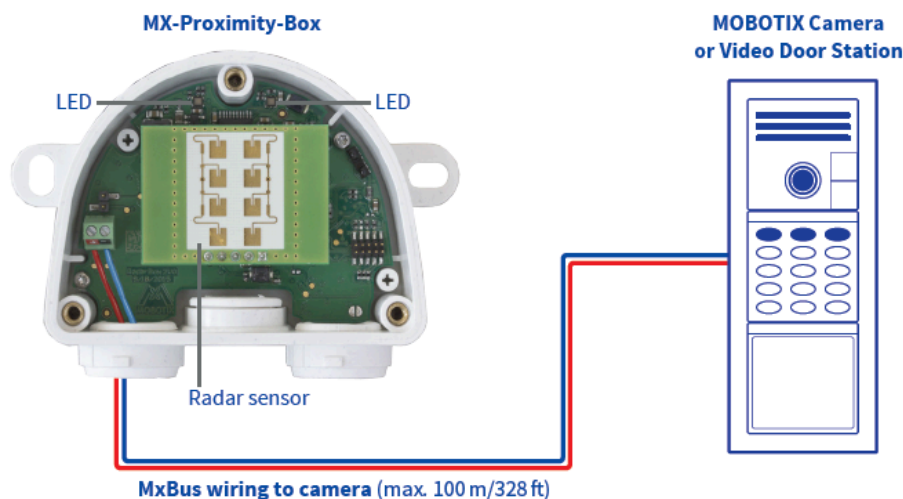
General Notes: Sold to distributors or commercial clients only • Prices excluding VAT/sales tax ex-factory Langmeil, Germany • MOBOTIX is not responsible for any errors or omissions in this document © MOBOTIX AG 2017

MOBOTIX

Product Announcement
Hardware & Software

1. MxProximityBox

Concealed Motion Detection For MOBOTIX Systems

The MX-Proximity-Box is a compact, weatherproof interface box (IP66) with integrated microwave radar sensor technology that can be connected to all cameras using MxBus. The MX-Proximity-Box detects moving objects using actively emitted and reflected radar waves. Since it can be installed at distances of up to 100 m away from the camera (via MxBus connection), the MX-Proximity-Box is a helpful supplement to the passive infrared sensor (PIR) that is integrated with the D15, M15 and ExtIO as a standard.

Special Features Of The Radar Sensor As Compared To The PIR Sensor

The reception behavior of the radar sensor differs significantly from that of motion sensors on an infrared basis. While infrared sensors react relatively unresponsive to movements in a radial direction (straight approaching and distancing, such as a person approaching the door to a building or a car approaches a closed gate), radar sensors are extremely sensitive to this type of motion. The reverse is true for sideways movements in front of the sensor.

Example of radial motion (approaching/distancing)
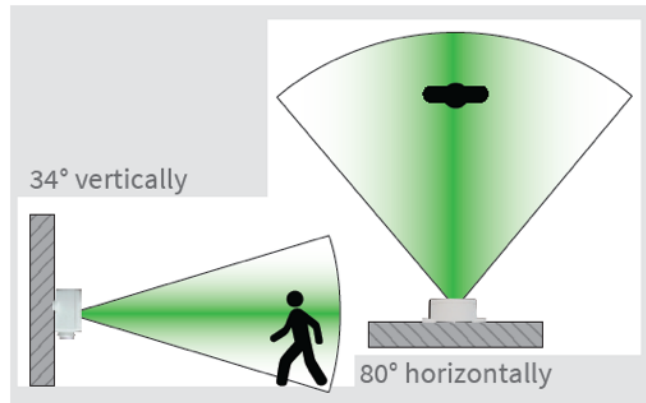The car drives up directly to the MX-Proximity-Box

Example of sideways or general motion:
The car drives past the MX Proximity-Box

MOBOTIX

Unlike an infrared motion sensor, a radar sensor does not require there to be any difference in temperature between the moving object and the environment. The MX-Proximity-Box reacts to people and animals as well as to vehicles and machine parts. Since radar waves penetrate nearly all non-metallic materials, radar sensors can be installed in a concealed and sabotage-proof way. Radar waves easily penetrate plastic, drywalls and ceramic.

The MX-Proximity-Box features a radar image area that measures **80° horizontally** and **34° vertically**. It can detect vehicles at a distance of up to 35 meters, and people at a distance of up to 15 meters.

Configuring The MX-Proximity-Box

The MX-Proximity-Box boasts a special technical feature: It differentiates between radar signals, meaning the type of motions the box reacts to and sends a message about (via the MXMessageSystem).

Users can determine the message names and select the motion profiles to be triggered in the camera software, which is meant to be opened in the Internet browser (for Versions MX-V4.4.2.5x and higher), in the **Admin Menu** under **MxMessageSystem > Message configuration of the MxBus module** . The profiles for approaching, distancing and movements include individual parameters for the detection of these types of human movements that have mostly been predefined. However, users can also set highly customized parameter values in Profile Custom that could be better suited for target objects other then people (such as cars), by following the online instructions in the camera software.

MX-Proximity-Box: Highlights
✓ Radar wave-based detection of moving objects, even if there is no difference in temperature between these and the environment
✓ Ideal supplement to PIR sensors that only react to infrared radiation
✓ Detection of all kinds of movements, plus the option to filter out radial movements (only sends MxMessage for approaching/distancing objects, for instance)
✓ Pre-defined profiles of approaching/distancing/movements for optimal detection of human movements
✓ Completely concealed installation behind wood, plastic or drywall is possible (with reduced detection range)

MOBOTIX

MX-Proximity-Box: Technical Data	
Product Name	MX-Proximity-Box
MOBOTIX Order Code	MX-PROX-BOX
Ambient Temperature	-20 to 60°C (-4 to 140°F)
IP Class	IP66 (dust-proof and resistant to water jets)
IK Class	Corresponds to IK07 (protection against mechanical impacts of up to 2 joules: 500 g at a height of 20 cm)
Intended use	Not for use in areas at risk of explosions; connection to MxBus only
Dimensions (Height x Width x Depth)	63 x 87 x 30 mm
Weight (Without Packaging)	73 g
Connections	MxBus (2 clamps)
Power Supply	Via camera and MxBus
Power Consumption	0,5 bis 1 W
Frequency (Radar Radiation)	~24 GHz
Detection Range	80° x 34° (horizontal x vertikal) People: 0 bis max. 15 m Vehicles: 0 bis max. 35 m
Detectable Movements	Approaching, distancing and general movements
Cross-Sectional Areas MxBus Wiring	0.6 to 0.8 mm; recommendation: 0,8 mm J-Y(St)Y (AWG 21)
LED	2x RGB, operating status and radar signal type (distancing/approaching/motion)
Housing	PBT GF30
Certifications	EN 60950-1:2006/A11:2009/A1:2010/A2:2013/AC:2001/A12:2011 EN 301 489-1 V2.1.1, EN 301 489-3 V1.6.1, Draft EN 301 489-3 V2.1.0 EN 300 440-1 (V1.6.1); EN 300 440-2 (V1.4.1); (Draft EN 300 440 V2.1.0) CFR 47 FCC Part 15C RSS-310 ISSUE 4
Special Instructions	Length of the entire MxBus cable cannot exceed 100 m Recommended installation height for detecting people: 1.00 - 1.20 m
MTBF	> 80.000 h

MX-Proximity-Box: Ordering Information

Order Number	EAN	Description	MSRP	Available
MX-PROX-BOX	4047438025881	Weatherproof proximity sensor for MOBOTIX systems • Accurate detection of approaching objects based on radar microwave technology • Covered area (horizontal x vertical): 80° x 34° • Range: 10 m / 33 ft. (individuals), 30 m / 330 ft. (cars) • Camera connection and supply via MxBus • Protection class IP66, -20 to 60°C / -4 to 140°F • Box can also be mounted behind walls (e.g. wooden, plastic, glass or dry walls)	198 €	24 March 2017

MOBOTIX

2. MX-System Release MX-V4.4.2.5x

MX-System Version 4.4.2.5x and the release notes, including information regarding all changes, can be downloaded free of charge from the MOBOTIX website.

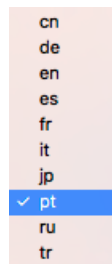### New Standardized Firmware For All MOBOTIX Cameras With P3 Processor (x14/24, x15/25)

MX-V4.4.2.5x, the latest version of the camera firmware, is designed for use with all MOBOTIX cameras featuring the PXA 320 processor (P3) from the x15/x25 series equipped with a 6MP sensor, 5MP sensor or thermal sensor and the x14/x24 series equipped with a 3MP or 1MP sensor.

Hardware Support For The MX-Proximity-Box

The new firmware version MX-V4.4.2.5x will be required for all cameras that need to be connected to an MX-Proximity-Box (see Section 2 of this product announcement).

New Language Option: Portuguese

The language of the dialog and the user interface can now be set **to** pt **for** Portuguese **in the** Admin Menu. There are now ten languages in total to choose from: German, English, Chinese, French, Italian, Japanese, Portuguese, Spanish, Russian, Turkish

| cn |
| de |
| en |
| es |
| fr |
| it |
| jp |
| ✓ pt |
| ru |
| tr |

MX-System MX-V4.4.2.5x: Software-Release			
Download: www.mobotix.com > Support > Software Downloads > Cameras			
Description	**Release**	**MSRP**	**Available**
Camera firmware designed for use with all MOBOTIX cameras featuring the PXA 320 processor (P3) from the x15/x25 series equipped with a 6MP sensor, 5MP sensor or thermal sensor and the x14/xx24 series equipped with a 3MP or 1MP sensor • Languages: German, English, Chinese, French, Italian, Japanese, Portuguese, Spanish, Russian, Turkish • Free download: www.mobotix.com > Support > Software Downloads > Cameras	4.4.2.5x	0 €	24 March 2017

MOBOTIX

3. Increased Requirements For Sale Of Thermographic Cameras

M15 Dual
Thermal & Optic

S15 Dual
Thermal & Optic

S15 Dual
Dual Thermal

S15
PTMount Thermal

Change To The Order Process For MOBOTIX Thermographic Cameras

MOBOTIX thermographic cameras (M15 Thermal and S15D with one or two thermal sensor modules) contain thermograpic image sensors made by an American supplier. Since these cameras display infrared radiation and can create 'thermal images' with a maximum frame rate of nine images per second (9 Hz), special **export regulations set by the U.S. government apply**.

MOBOTIX AG was informed by its supplier that the previously relaxed export regulations have become more strict for thermographic cameras with a maximum frame rate of up to 9 Hz. Because of this the participating MOBOTIX distributors and partners must gather information on the respective **end customers** and the intended use of the cameras **and** report this to **MOBOTIX** via e-mail when placing orders for **MOBOTIX** thermographic cameras. The thermographic cameras that have been ordered can only then be produced and sent once this has been done.

After carrying out an internal inspection, MOBOTIX AG can demand written confirmation in the form of an end-use document. MOBOTIX will only forward information for approval upon specific request from the US authorities.

More information and a MOBOTIX standard document for thermal camera customers will be available soon in the partner area of the MOBOTIX website (no registration required): **www.mobotix.com > Partners > Thermal**

Since the laws regulating the purchase of thermal cameras are likely to change in the near future, you should check this website again before each transaction that involves such a camera.

MOBOTIX

4. Revision To Published Prices and Closure Of EU Webshop

To date, net prices have been published for everyone on the MOBOTIX website and MOBOTIX products were also available for non-certified customers within the EU. With immediate effect, prices will only be accessible via the MOBOTIX partner portal, for partners certified by MOBOTIX. The MOBOTIX EU Webshop has been closed with immediate effect. The international regions will continue to conduct business through their regional authorized MOBOTIX distribution channel.

MOBOTIX

5. Schedule

New Hardware – Now Available For Order (Applies To MOBOTIX Partners And End Customers):

MX-Proximity-Box   Shippings as of Friday, 24 March 2017

New Software – Software Release Dates On The MOBOTIX Website:

MX-System Release MX-V4.4.2.5x   Download starting on Friday, 24 March 2017

Revision pricelist and MOBOTIX Webshop

Monday, 06 March 2017

All New Products On The MOBOTIX Website (Starting March 2017):

www.mobotix.com > Products   (for hardware)
www.mobotix.com > Support > Software Downloads   (for software)
www.mobotix.com > Produkte > Price List   (updated PDF for download)
(only after login to the partner section of the homepage)
www.mobotix.com > Support > Manuals   (Manuals/Quick Installs)

Product Training Seminars:

The current dates can be found on the MOBOTIX website under Partners > Seminars.

Webinar To This Product Announcement (Duration Approx. 30 Minutes, Language: English):

10 March 2017 – 09:00   9 am, Central European Time (German Time)
10 March 2017 – 16:30   4:30 pm, Central European Time (German Time)

Please register …
… for the 09:00 session using this link: https://attendee.gotowebinar.com/register/782680036471130883
… for the 16:30 session using this link: https://attendee.gotowebinar.com/register/8957656741125229315

MOBOTIX