

**MOBOTIX**

Keyless Entry via Transponder or PIN

Check/leave messages

Open/lock door

Module can also be installed individually

## HiRes Video Innovations

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.

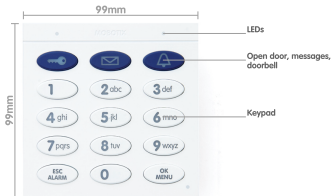
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## About this product

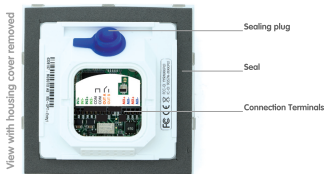
This module is used for keyless and scheduled access. It requires the user to enter a code or it opens the door using a RFID transponder card.

Voice messages can also be stored and played back using the keypad.

## General Information



1 Admin RFID card and  
6 User RFID cards are  
included in delivery



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# Keypad1-EXT: Datasheet

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## Terminal Connections

Connections	
IO Terminal	
<b>IN 1+</b>	Door switch (door opened/closed)
<b>IN 1-</b>	Door switch (door opened/closed)
<b>IN 2+</b>	Door lock switch (door locked/unlocked)
<b>IN 2-</b>	Door lock switch (door locked/unlocked)
<b>COM</b>	External devices (light relay, alarm system, etc.)
<b>COM</b>	External devices (light relay, alarm system, etc.)
<b>OUT A</b>	External devices (light relay, alarm system, etc.)
<b>OUT B</b>	External devices (light relay, alarm system, etc.)
MxBus Terminal	
<b>MX+</b>	MXBus
<b>MX-</b>	MXBus



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## Technical Specifications

General Technical Specifications	
<b>Functions</b>	Keyless access using RFID card and PIN
<b>Interface</b>	MxBus
<b>User Interfaces</b>	RFID (13.56 MHz, Mifare DESFire EV1), illuminated keys, acoustic feedback using a piezo buzzer
<b>Inputs</b>	2 galvanically separated inputs (AC/DC, self-powered, up to 50 V)
<b>Outputs</b>	1 isolated relay output (AC/DC, 24V/2A)
<b>Sensors</b>	Illumination sensor
<b>Protection class</b>	IP65 (DIN EN 60529)
<b>Operating temperature</b>	-30 to +60°C / -22 to +140°F (DIN EN 50125)
<b>Power supply</b>	MXBus, DC (36-57 V, max. 50mA)
<b>Power consumption</b>	typ. 1 W
<b>Dimension (W x H)</b>	99 mm x 99 mm

Technical Specifications For The Terminals Used On The Keypad	
<b>Cable cross-section, fixed</b>	min. 0,14 mm <sup>2</sup> /max. 0,5 mm <sup>2</sup>
<b>Cable cross-section, flexible</b>	min. 0,2 mm <sup>2</sup> /max. 0,5 mm <sup>2</sup>
<b>Cable cross-section, flexible, with wire-end sleeves without plastic sleeves</b>	min. 0,25 mm <sup>2</sup> /max. 0,5 mm <sup>2</sup>
<b>Cable cross-section AWG/kcmil</b>	min. 24/max. 20
<b>AWG according to UL/CUL</b>	min. 26/max. 20

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## Federal Communications Commission (FCC) and Industry Canada (IC) Notice for Keypad1-EXT (FCC ID: YRMRXKP01, IC ID: 9357AMXKP01)

### NOTICE:

This device complies with Part 15 of the FCC Rules (and with ICES-003 of Industry Canada).

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**NOTICE:** Changes or modifications made to this equipment not expressly approved by MOBOTIX AG may void the FCC authorization to operate this equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Radiofrequency radiation exposure Information:

The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

### Antenna Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

## Ministry of Internal Affairs and Communications Notice for Keypad1-EXT

### NOTICE:

- This device has been granted a designation number by Ministry of Internal Affairs and Communications
- This device should not be modified (otherwise the granted designation number will be invalid)

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Regulatory Notice

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**Hersteller:**  
**Manufacturer:**  
**Fabricant:**

**Produkt:**  
**Product:**  
**Produit:**

**Type:**  
**Type:**  
**Type:**

**MOBOTIX AG**

**MxBus-Modul**  
**MxBus module**  
**Module MxBus**

**Keypad1-EXT**

Bei bestimmungsgemäßer Verwendung erfüllt das bezeichnete Produkt die Bestimmungen der im Folgenden aufgeführten Richtlinien:

The product identified above complies with the essential requirements of the relevant standard, when used for its intended purpose:  
 Le produit désigné ci-dessus est conforme aux exigences fondamentales des normes s'y rapportant:

## Funkanlagen und Telekommunikationsendinrichtungen

Radio and telecommunications terminal equipment  
 Equipements radio et équipements terminaux de télécommunication

## Angewendete harmonisierte Normen:

Harmonised standards applied:  
 Normes harmonisées:

**1999/5/EG (R&TTE)****Safety**

EN 60950:2005

**Health**

EN 62311:2008

**EMC**

EN 301 489-1 (V1.8.1)  
 EN 301 489-3 (V1.4.1)

**ERM-SRD**

EN 300 330-1 (V1.7.1)  
 EN 300 330-2 (V1.5.1)

## Weitere angewendete Normen:

Other harmonised standards applied:  
 Autres normes harmonisées:

**FCC Part 15B**

Item 3 of Article 44-1 of the Radio Ordinance

**Anschrift:**

**Address:** MOBOTIX AG  
**Adresse:** Kaiserstrasse  
 67722 Langmeil  
 Germany

## + TK-Nr. / Phone number / N° de communication:

**Fon:** +49 6302 981 6-0  
**Fax:** +49 6302 981 6-190  
**E-Mail:** info@mobotix.com

Langmeil, 28.01.2011

**Ort, Datum**

Place & date of issue (day/month/year)  
 Lieu et date



Dr. Ralf Hinkel/  
 Vorstand/CEO, MOBOTIX AG

**Name und Unterschrift**

Name and signature  
 Nom et signature

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# Declaration of Conformity