



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.

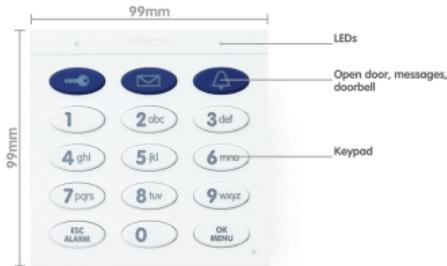
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General Information

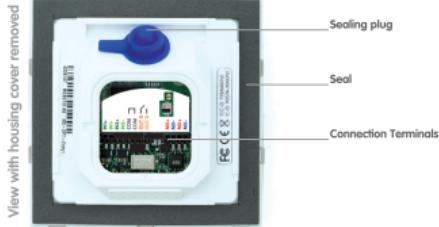
About this product

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.



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



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Terminal Connections

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



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Technical Specifications

The HiRes Video Company



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

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

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Federal Communications Commission (FCC) and Industry Canada (IC) Notice for Keypad1-EXT (FCC ID: YYRMAXXP01, 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

exempté 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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Declaration of Conformity

Hersteller:
Manufacturer:
Fabricant:

Produkt:
Product:
Produit:

Typ:
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 Telekommunikationsendgeräte
Radio and telecommunications terminal equipment
Équipements radio et équipements terminaux de télécommunication

1999/5/EG (R&TTE)

Angewendete harmonisierte Normen:
Harmonised standards applied:
Normes harmonisées:

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: MOBOTIX AG
Address: Kaiserstrasse
Adresse: 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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