MX-Door2-INT-ON

Security-Vision-Systems MOBOTIX

**Security Door Opener with Access Code Storage** 



Controls door openers via encrypted MxBus communication and provides a doorbell for indoor installation (includes backup power supply for bell features and door opener) and blind cover for hidden installation



- Open door, doorbell off/on, change melody
- Door indicator (open, closed, locked)
- Status LEDs for signaling
- Backup power supply with rechargeable battery
- Connection for door opener, door sensor and door lock sensor

#### Standard Connection: MX-DoorMaster with IP Video Door Station, Door Opener and Door Sensors Outdoor **IP Video Door Station** Door opener, door sensor, lock sensor (YSTY 0.8 mm – max. length: 50 m/55 yd) MxBus (YSTY 0.8 mm – max. length: 100 m/110 yd) МОВОТІХ Theft protection (YSTY 0.8 mm – max. length: 50 m/55 yd) For additional information on the other connection variants and for installing see the IP Video Door Station System Manual Part 1 on www.mobotix.com > Support > Manuals. Connector for battery pack MX-Door2-BAT Theft protection/ Door opener Theft protection OUT 1+ OUT -OUT 2+ Door opener IN -Door sensor/ Door lock sensor IN 2+ MxBus + Door lock sensor MxBus -Mx -IN 1+ Door switch

#### Standard door openers with 6 to 12 V AC (min. 16 $\Omega$ with up to 24 V AC/DC (max. 1 A) using internal resistance) can be attached directly to the an external power supply (relay opera-

**Supported Door Openers** 

MX-DoorMaster; such a door opener is powered by the integrated battery pack. In this case, you do not need an additional power supply for the door opener. As an alternative, you can also connect door openers

tion) or a self-locking door lock ("Mediator"; see IP Video Door Station System Manual Part 1, Section 2.5, «Installing the MX-DoorMaster»). **Installing the MX-DoorMaster** 



Frame Remove the screw of the top cover (red arrow)

Special care should be taken to make sure that none of the wires connected to MX-DoorMaster carries

#### Remove the top cover (pull back top 1), then pull upward (2).

2. Install the on-wall socket

figure on the right).

any current!

· Gently pull the frame off of the main unit.

using a Phillips screwdriver (PH 1).

Decide on where to install the product. Make sure that the underground is strong enough to carry the MX-DoorMaster. The two gray arrows at the bottom are indicating the top of the housing.

· Mark the holes for the screws or dowels (if required) using the drilling template (see back). Drill the holes and insert the supplied dowels.

- Guide the connection cables from behind to the on-wall socket. If the cables are coming from the side, cut or break out one of the cable guides in the wall of the on-wall socket (red arrows in
- Push the wires of the connection cables through the installed eight-wire plugs or replace these plugs by one of the supplied plugs for sheathed Lead the connection cable through the break-out and use the delivered screws to affix the on-wall

socket at the designated position.

- 3. Connect the main unit Make sure that you are using one of the supported door openers (see Section «Supported Door Openers»).
  - Connect the MxBus wires and the other wires as described in the IP Video Door Station System Manual Part 1, Section 2.5, «Installing the

# MX-DoorMaster».

cover instead.

- 4. Install the main unit • Insert the plug of the battery pack as shown in the figure on the right (cabling not shown).
  - Place the main unit with the cabling onto the socket and affix the main unit using the four small Phillips screws with washers (PH 1 – blue arrows). Make sure that the screw hole on the main unit (red arrow) is pointing upward. Place the frame onto the socket, insert the top

cover and tighten the screw or install the blind

IP Video Door Station System Manual Part 1, Section 2.5, «Installing the MX-DoorMaster».

5. Connect to the IP Video Door Station Connect the wires as described

#### After installing and running the product for the first time, make sure to create a configuration backup (see Section «Replacing the MX-DoorMaster»).

On-wall socket On-wall socket

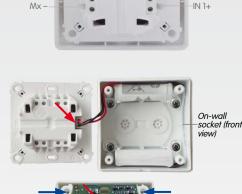
Top cover

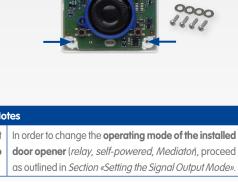


OUT -

OUT 1-

OUT 2+





in

Once you have installed and connected the MX-DoorMaster, you need to charge the battery pack without interruption for at least 12 hours. The IP Video Door Station and its PoE power supply

automatically charge the module via the MxBus two-wire connection. Note that you should not use

**Initial Operation/Charging the Battery Pack** the MX-DoorMaster to open doors during this time (except for a short functional test). This ensures that you can

extend the life cycle of the high-quality NiMH battery

pack (heavy-duty industrial grade) to several years

(given normal usage).

# **Replacing the Battery Pack**

#### 1. Remove top cover/blind cover • Top cover: Unscrew the Allen screw (red arrow),

remove the top cover (tilt forward upward 2), then remove the frame. • Blind cover: Remove the screw (red arrow) and take off the blind cover.

Remove the four screws with washers and take

- Remove the plug of the battery pack (cabling not shown) using a wide flat screwdriver (gently turn the screwdriver to the left and right to lift
- Remove the two blocks of the battery pack by gently pulling them out of their seats.

#### Insert the new battery pack and push its plug into the socket in the main unit.

the plug out of its socket).

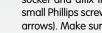
off the main unit.

2. Replace the battery pack

- 3. Install the main unit • Place the main unit with the cabling onto the socket and affix the main unit using the four
  - small Phillips screws with washers (PH 1 blue arrows). Make sure that the screw hole on the







- main unit (red arrow) is pointing upward. Place the frame onto the socket, insert the top cover instead.
- cover and tighten the screw or install the blind

# 32.201-001 EN 05/2015



## **Operation: Buttons and Signaling**

MOBOTIX MX-DoorMaster MX-Door2-INT-ON

LED right (**R**) (blue) Speaker Door opener (press for 3 s)





# **LED Flashing Patterns**

LED left (L)

Doorbell (press briefly)

(green/red)

	Flashing Pattern						
$\bigcirc$	0	0	LED off				
			LED on				
0	•	<b>(</b>	LED off with short interruptions				
	•		LED on with short interruptions				

Key

Key(s)

#### **General Signals** State

State	LED Left	LED Signal Left	LED Right	LED Signal Right
Door closed and locked		On		On
Door closed and not locked		On	•	Off, 1x/2 s briefly on
Door is open		On	0	Off
Doorbell is currently pressed	0	Off, 1x/0.5 s briefly on		
Missed doorbell	•	<5 min: On, 1x/s briefly off >5 min: On, 1x/2 s briefly off		
New mailbox message	•	Off, 1x/2 s briefly on		

**User Actions** 

Action

	/					
Open door		Press for 3 s	R	<b>Q</b>	Off, 3x in 3 s briefly on, then twice	1 beep/s, then twice (acknowledge)
Doorbell off/on	þı	Press 1x	L	<b>Q</b>	Off, 1x every 5 s briefly on	1 beep (acknowledge)
Doorbell off/on (entire system)	þı	Press briefly 2x	L	0	Off, 2x every 5 s briefly on	2 beeps (acknowledge)
Acknowledge mes- sage indicator		Press briefly 1x				
Adjust Volume						

**LED Signal** 

LED Signal

**Audio Notification** 

**Audio Notification** 

Action	Key		LED		LED Signal	Audio Notification
Start (stop after 5 s inac- tivity)	þı	Press for 2 s	L	0	Off, 1x/s briefly on	1 beep, then twice (acknowledge)
Volume –	þı	Press 1x	L	0	Off	1 beep
Volume +	0	Press 1x	R	•	Off, 1x/s briefly on	1 beep
Adjust Doorhell Melody						

LFD

#### **Action** Start

State		LED		LED	Signal		
Special/Error States							
Sound +	)ı	Press 1x	R	<b>Q</b>	Off, 2x/s briefly on	1 beep	
Melody –		Press 1x	L	0	Off	1 beep	
Switch	)II +C	Press briefly 1x	R	<b>Q</b>	Off, 2x/s briefly on	1 beep	
(stop after 5 s inac- tivity)	)ı	Press tor 2 s	L	0	Ott, 1x/s brietly on	1 beep, then twice (acknowl- edge)	

#### Device error

Inputs

1	Repl	acin	g the MX-DoorMaste
Power failure: Ready	L	0	Off, 1x every 4 s ultra-briefly on
Battery is empty	L	0	Off, 1x every 3 s briefly on

#### system configuration. This will ensure that you can «Removing and Exchanging restore the encryption data later on. Please follow Modules».



If the MX-DoorMaster needs to be replaced against

all expectations, you need a current backup of the

MxBus, max. wire length 100 m/110 yd 2 galvanically separated inputs with common

ground (AC/DC, self-powered, up to 48 V)



# 1 isolated *relay* output (AC/DC, 24 V/1 A) or to standard door opener (6 to 12 V AC, *self*

Outputs	T connection to statistard above opener (a to 12 v Ac, <i>seir-powerea</i> ) of 1 connection for <i>Mediator</i> door opener (see <i>Section «Setting the Signal Output Mode»</i> )  1 output for MOBOTIX theft protection (12 V DC)					
Connection wires	Cross-section 0.14 to 2.5 mm², diameter 0.4 to 1.6 mm					
Protection class	IP20 (DIN EN 60529)					
Operating temperature	−5 to +40 °C (DIN EN 50155)					
Power supply	MxBus					
Power consumption	Тур. 1 W					
Power output	Max. 10 W					
Door opener activation time	Max. 5 s					
Measurements (height x width x depth)	82 x 82 x 64 mm/3.23 x 3.23 x 2.52 in (with blind cover: depth = 61 mm/2.4 in)					
Setti	ng the Signal Output Mode					
Depending on the connection type or	fthe door opener MxBus Modules. Use this dialog to set					

#### the browser and click on Admin Menu > Manage the next reboot of the camera.

• This product must not be used in locations exposed to the dangers of explosion. • Make sure that you install this product as outlined in the installation instructions in this document and in the notes and operating instructions

in the IP Video Door Station System Manual

used, you need to select the proper mode of the

MX-DoorMaster's signal output (see Sections «Installing

the MX-DoorMaster» and «Technical Specifications»).

To do so, open the user interface of the camera in

**Safety Warnings** applicable electrical guidelines. Make sure to properly set up all electrical connections. · Make sure that you adhere to all relevant laws, regulations and that you fulfill all certification

on both sides.

exceed 50 m/55 yd.

requirements for the intended use.

the desired mode (relay, self-powered,

*Mediator*) in the **MX-DoorMaster** section.

Close this dialog and store the configuration so that the settings will be applied after



#### (www.mobotix.com > Support > Manuals). This able battery pack in this product. document also contains the wiring diagrams for • Only replace the battery pack using MOBOTIX

**Dimensions** 

The MOBOTIX MX-DoorMaster is to be used only for door opener features for MOBOTIX cameras in IP20 environments. For MOBOTIX cameras with MxBus connector and

software version MX-V4.1.4.11 or higher.

the different connection variants.

- Electrical systems and equipment may only be installed, modified and maintained by a qualified electrician or under the direction and supervision of a qualified electrician in accordance with the
- order no. MX-Door2-BAT! Torque for all screws: 0.4 Nm. Press the white cable plugs (eight-wire plug or

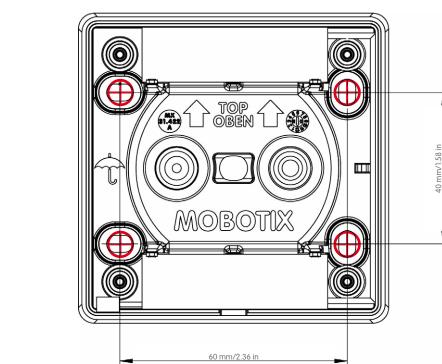
cable plugs 3 to 5 mm or 5 to 7 mm) into the

socket in such a way that the rims stick out equally

Make sure to properly dispose of the recharge-

- The length of the entire MxBus wiring must not exceed 100 m/110 yd. The length of each signal input line must not

# Side view with top cover Side view with blind cover **Drilling Template** TOP OBEN



### Innovations - Made in Germany

www.mobotix.com