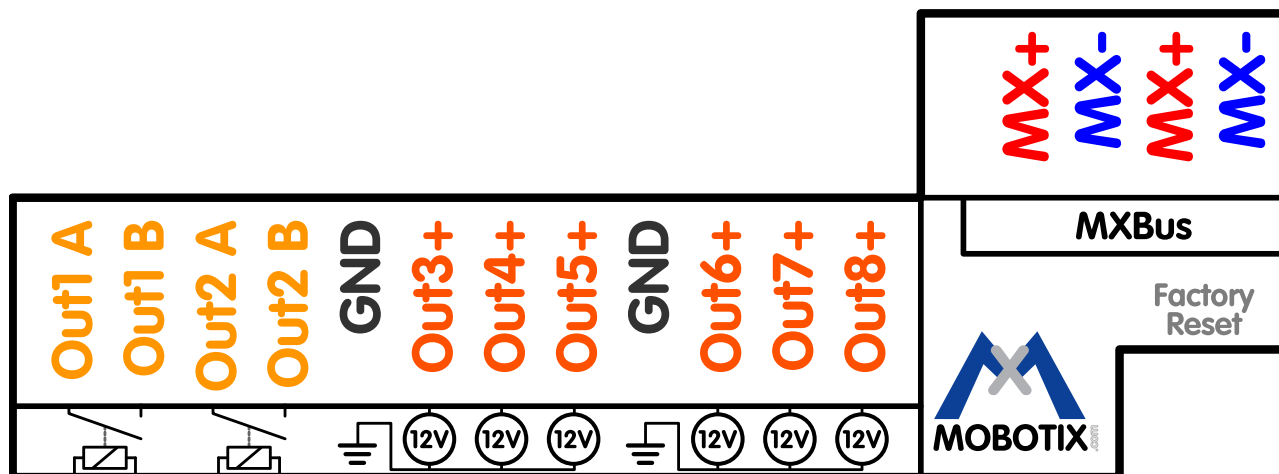


4. Weatherproof MX-Output-Box With Eight Signal Outputs (IP65)



Connecting And Switching Of External Devices Via MOBOTIX Cameras

The MX-Output-Box is a new interface box for all MOBOTIX cameras with an MxBus interface, which is directly connected via an MxBus two-wire cable and supplied with power from the camera without any additional voltage source. As well as four MxBus terminals, the MX-Output-Box includes a total of eight signal outputs, of which six are self-powered (12 V DC, max. 10 mA per output) and two are isolated. Both of the isolated outputs can be individually converted to self-powered outputs (12 V DC, max. 50 mA per output) using the two jumpers on the circuit board of the device. Data is transmitted over the MxBus in encrypted format. The box is weatherproof (IP65, -30 to +60 °C / -22 to +140 °F) and features a highly compact design (max. width: 8.7 cm).



Schematic diagram of the ports on an MX-Output-Box; the Out3+ to Out8+ ports are powered at 12 V and can be used for connecting relays such as Eltako ER12-002-UC.






MxMessageSystem: Advanced Features For MxBus Modules

MxBus modules running camera firmware 4.3.0.15 or higher can actively receive and send messages. The MxBus module typically sends a message in response to a sensor being triggered. When an MxBus module receives a message, this can be used to trigger an action. (e.g., for the MX-Output-Box, this includes opening a garage door, switching on an alarm system, or turning off the air conditioning.)

One Signal, Multiple Actions

Triggering a sensor signal of a camera (e.g., a thermal camera detects movement in a parking lot during the night) can result in a message being sent to all of the cameras in the same network with connected MX-Output-Boxes, which then shut all gates and doors, let down the blinds and switch on all lights inside and around of the building. Depending on the camera model and the configured PoE class, users can operate up to two MX-Output-Boxes with a single camera.

MX-Output-Box – Highlights

-  Weatherproof interface box (IP65, -30 to +60 °C (-22 to +140 °F)) with eight outputs
-  Simple and fast camera connection via a two-wire MxBus cable (up to 50 m)
-  Flexible system expansion with connection of up to eight peripheral devices per box (e.g., power relay for lighting, garage door drive, blinds, etc.)
-  Up to eight self-powered outputs or six self-powered outputs and two isolated outputs
-  Intelligent communication with cameras and MxBus modules in common network via MxMessageSystem

Concealed Mounting Of Interface Boxes

All interface boxes can be mounted safely out of reach in the VarioFlex wall mount of M15D and M25M or in the D15D and Q25M/D25M wall mount.



MX-Output-Box: Technical Data

Product designation	MX-OPT-Output1-EXT
Ambient temperature	-30 to 60 °C (-22 to 140 °F)
IP protection class acc. to DIN EN 60529	IP65 (dust-proof and resistant to water jets)
Designated use	<ul style="list-style-type: none"> - Not for use in areas at risk of explosions - Can be combined with MOBOTIX cameras featuring an MxBus connection
Dimensions (height x width x depth)	63 x 87 x 30 mm
Weight (without packaging)	75 g
Connectors	<ul style="list-style-type: none"> - MxBus (2 x 2 terminals) - Eight outputs (six outputs with 12 V power supply, two isolated outputs, two ground terminals)
Number of outputs	8
Included self-powered inputs	Six (12 V DC, limited to 10 mA per output)
Additional outputs	Two (isolated, via two jumpers each with a power supply of 12 V DC; max. 50 mA per output)
Max. Power output at 12 V	1.2 W
Terminal specification	AWG26 to AWG21 (wire thicknesses supported at the terminal connectors)

MX-Output-Box: Technical Data

LEDs	2
Emergency operation (of MX-DoorMaster)	24 V mode activation with jumper in the box, power devices
Power consumption	Typical 0.5 W (max. 1.5 W)
Housing	PBT GF30
Certifications	- EMV (EN 55022:2010; CISPR22:2008 mod.; EN 55024:2010) - Additional standards (AS/NZS 3548; CFR47, FCC part 15B)
Key function	Outputs can be connected to the MxMessageSystem with multiple messages
Specific information	- Only in connection with the MxMessageSystem - Maximum output current of 100 mA at 12 V may not be exceeded - Camera firmware required: 4.3.0.15 and higher
MTBF	> 80,000 h



MX-Output-Box Ordering Information

Order number	EAN	Description	MSRP EUR	Available as of
MX-OPT-Output1-EXT	4047438021944	Weatherproof connection of external devices and power relays • Connection to the camera via MxBus • Six self-powered outputs (12 V, each 10 mA) • Two isolated outputs (can be switched to "self-powered" using a jumper: 12 V, max. 50 mA) • Protection class IP65, -30 to +60 °C • Box can be mounted in the M15, M25, D15, and D25 wall mount and is secured against unauthorized access	128	Now