



M-DOOR RANGE

CONTROL, SIGNALLING AND PLUG-IN

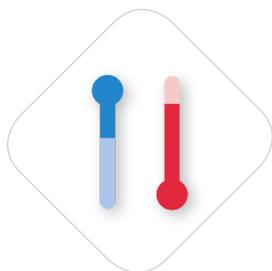


MAFELEC BY YOUR SIDE

Since 1947, **MAFELEC** offers solutions for controls and signalling adapted to the most extreme environments.

User / Machine interface solutions are designed and produced in close cooperation with the engineering departments of our customers and integrate a great number of technological parameters within specific industry standards.

The M-D00R range includes Adaptable, Ergonomic, Aesthetic, Robust products



-55°C/+85°C



Fire and smoke
standard



UV



Detergent

General standards

Climatics

- EN60068
- ISO16750
- ISO4892-2

Fire and smoke

- EN45545
- ECER118

Protection

- EN61373
- EN62262
- EN60529
- ISO16750

Electronics

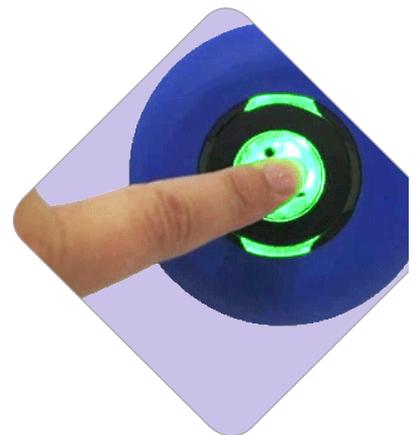
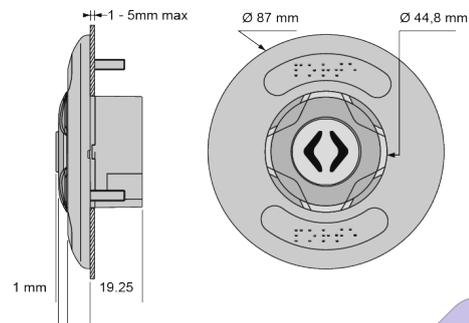
- EN50155
- EN50121-3-2
- CISPR25
- ISO16750
- ECER10 (Mdoor GM, Mdoor simple)



M-DOOR VG

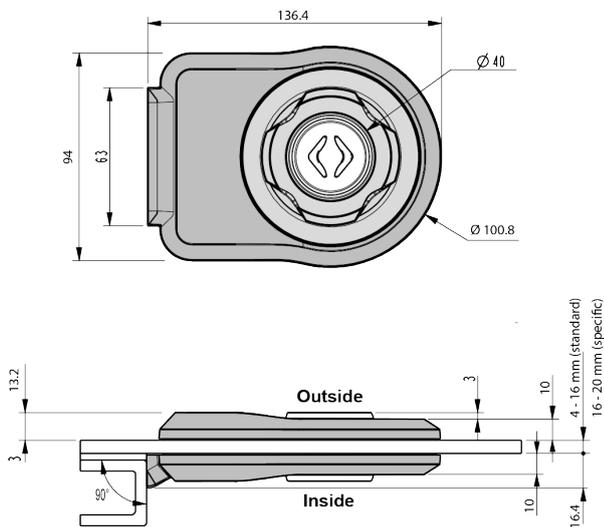
Pushbutton fully compliant with PRM and door requirement

- **Applicative standards:** TSI PRM, EN1658x series, EN14752, R107
- **Mounting:** Front side
- **Nominal voltage:** 24VDC - 110VDC
- **Protection:** Front - IP65
Rear - IP65
IK07
- **Main applications:** Rail vehicles doors, buses & coaches doors
- **Special features:** Intuitive color blind detectable



M-DOOR GM

Glass mount pushbutton without drilling (up to 20mm glass thickness)



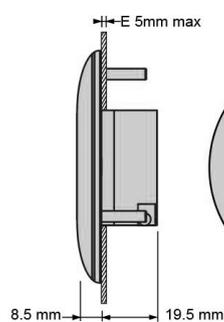
- **Applicative standards:** TSI PRM, EN1658x series, EN14752, R107, ECER10
- **Mounting:** Glue mounting on glass without drilling
 - Single inside
 - Single outside
 - Double side
- **Nominal voltage:** 12VDC - 24VDC
- **Protection:** Inside - IP43
Outside - IP65 / IP67
IK07
- **Main applications:** Buses doors, Metro, LRV, external doors, rail vehicles internal doors
- **Special features:** Wireless outside pushbutton
Autosynchronisation between inside and outside button



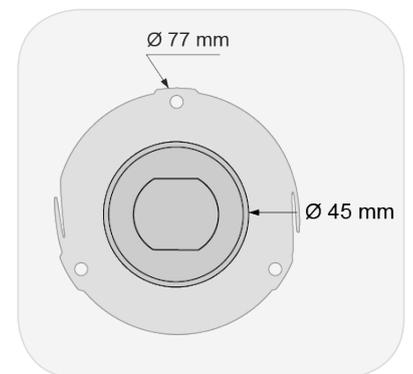
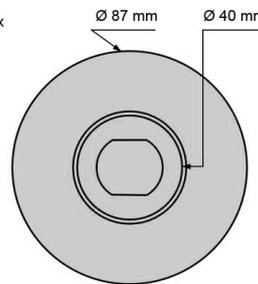
M-DOOR SIMPLE

Original single Mdoor pushbutton

- **Applicative standards:** TSI PRM, EN1658x series, R107, ECER10
- **Mounting:** Front side, rear side
- **Nominal voltage:** 12VDC - 110VDC
- **Protection:** Front - IP65 / IP67
Rear - IP65
IK07
- **Main applications:** Rail vehicles (doors, toilets, help request), buses & coaches doors, transport station information, totem, motorway SOS totem
- **Special features:** Plastic or metal actuator, audible signal DIN32981/DIN32974



Front mounting

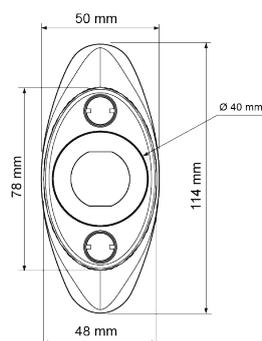


Rear mounting

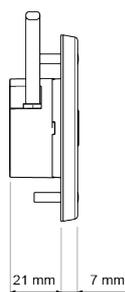
M-DOOR SLIM

Slim shape Mdoor pushbutton for low space panel or pole mounting

Pole mounting



Panel mounting



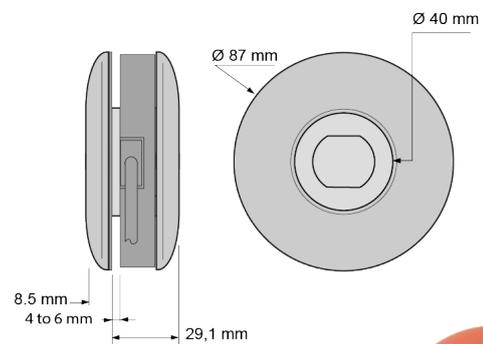
- **Applicative standards:** TSI PRM, EN1658x series, R107
- **Mounting:** Panel (front side), pole
- **Nominal voltage:** 12VDC - 110VDC
- **Protection:** Front - IP65 / IP67
Rear - IP65
IK07
- **Main applications:** Metro, LRV, EMU/DMU door command on pole, buses stop request on pole or panel
- **Special features:** Low space integration, pole mounting



M-DOOR DOUBLE

Double side Mdoor glass mount with drilling

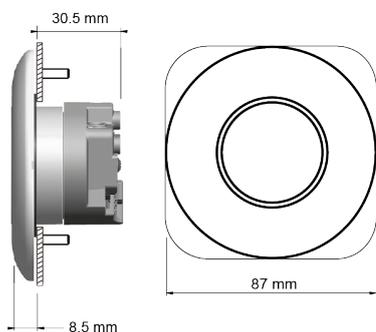
- **Applicative standards:** TSI PRM, EN1658x series, R107
- **Mounting:** Glass mount with drilling
- **Nominal voltage:** 12VDC - 36VDC
- **Protection:** IP65
IK07
- **Main applications:** Buses doors, Metro, LRV, external doors, rail vehicles internal doors
- **Special features:** Double pushbutton, double indicator, double mix
Patented automatic fixing on glass



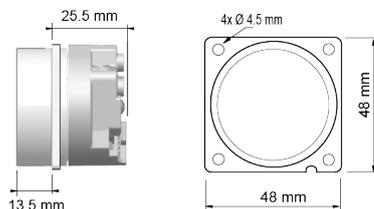
M-DOOR POWER SOCKET

Type E and Type F 230VAC / 16A power socket

Front mounting



Rear mounting



- **Applicative standards:** NFC61-314, DIN49440-1, CEI60884-1
- **Mounting:** Front side, rear side
- **Nominal voltage:** 230VAC power socket
Lighting: 24VDC, 130VAC, 230VAC
- **Protection:** Front - IP40
Rear - IP20
IK07
- **Main applications:** Bus & coach, rail vehicles, seats, tables, lateral panels
- **Special features:** Ring illuminated for «power on» indication
50,000 operations
Computer protection fault prevention



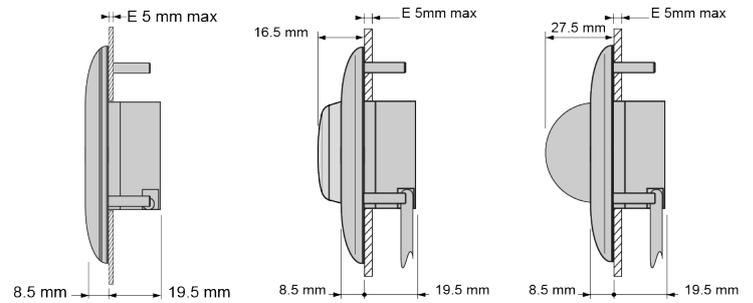
NOTA: USB socket under development



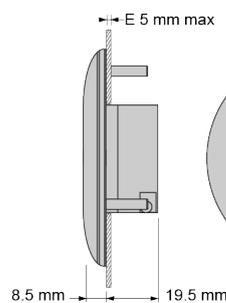
M-DOOR LIGHT INDICATOR

Visual signalling

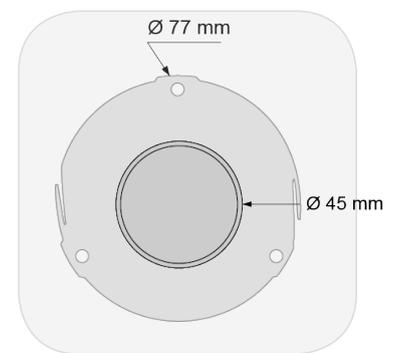
- **Applicative standards:** TSI PRM, EN1658x series, EN14752
- **Mounting:** Front side, rear side
- **Nominal voltage:** 12VDC - 110VDC
- **Protection:** Front - IP65 / IP67
Rear - IP65
IK07
- **Main applications:** Rail vehicles exterior doors, buses & coaches doors
- **Special features:** Flat shape with customized picograms
2 protruded shapes with fixed or flashing lighting



Side view (front mounting)



Front mounting

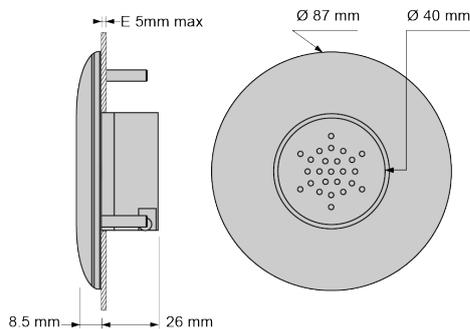


Rear mounting

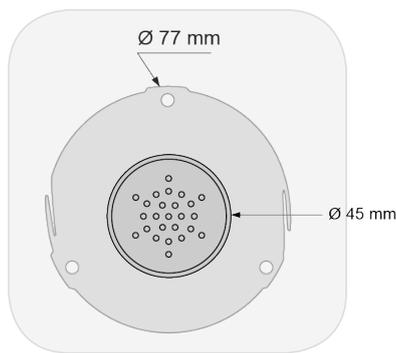
M-DOOR MULTITONE SOUND GENERATOR

Sound signalling

- **Applicative standards:** TSI PRM, EN1658x series, EN14752
- **Mounting:** Front side, rear side
- **Nominal voltage:** 24VDC - 110VDC
- **Protection:** Front - IP65
Rear - IP65
IK07
- **Main applications:** Rail vehicles exterior doors, toilets, driver desk
- **Special features:** Up to 7 sound sequences setup
Fixed sound level



Front mounting



Rear mounting



M-DOOR CUSTOMIZATION

A large variety of Mdoor products customization

- **Pushbuttons actuators types:**

- Material: plastic or metal

Examples



- Relief: flush or raised

Examples



- Metal finishes: colors, pictograms, with or without relief, braille

Examples



- **Light indicators:**

- Colors, text information

Examples



- **Power sockets:**

- Colors, text information

Examples



- **Front mounting bezel:**

- Round, square, triangular
- Plastic or metal
- Special features: colors, braille, raised text





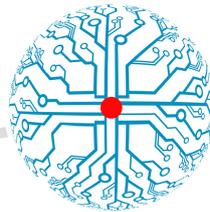
www.mafelec.com



MAFELEC

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