M-Door range
Push buttons

Creating control and signalling solutions for harsh environments

Push buttons

Aesthetic, ergonomic, adaptable and robust products. Specially designed for transport, they are also distinguished in other industrial sectors of activities (Toilets, Highway call boxes, doors, lock chambers...)

- Actuator area Ø 40mm
- Backlit single or dual color LED
- Pictograms on request
- Haptic feedback
- Metal versions
- Braille (according to versions)

Standards:

- Conception EN 14752, TSI PRM
- Application EN 50155
- Reinforced EMC EN 50121-3-2
- Environment EN 60068, EN 60529
- Fire / smoke NF F 16 101 / 102, EN 45545-2
- Cable EN 50306-4
- REACH, RoHs

Characteristics:

- Anti-vandal design
- Modularity for button & bezel
- Operating temperature -40°C +85°C (depending on the cable)
- Protection IP 65/67 IK07
- Customisation : Mafelec know-how expertise
- Ring & center area backlit
- High luminosity (8 LED on request)
- High service life
- Rear (without front bezel) or front mounting
- Pole mount for slim version with adaptor
- European instruction 2001 / 85 / CE (according to model)
- (conversion public transport for PRM)
- RVAR (metal versions)
- European instruction 2008 / 164 / CE (TSI PRM)

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**Mechanical characteristics**

- Operating temperature: -40°C / + 85°C (depending on cable)
- Service life: >3,000,000 operations
- Protection: IP67/65, IK07
- Actuator: Force <12N, Stroke = 1.5 mm
- Surface = Ø40 mm, Tactile effect
- Raised pictogram
- Label on actuator

**Electrical characteristics**

- Operating voltage:
  - Contact: 137V - 200 mA max.
  - LED: white 24 to 36V (72V, 110V on request)
- Protection against reversal polarity and overvoltage
- Long service life

**Lighting characteristics**

- Backlit pictogram unlimited choice, with color change
- Center illuminated and / or illuminated ring

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**Standards**

- Conception: EN 14752, 2008 / 164 / CE, 2001 / 85 / CE (depending on model)
- Application: EN 50155
- CEM: EN 50121-2-3
- Environment: EN 60068, EN 60529, EN 61 373
- Fire / smoke: NF F 16 101 / 102, UL V0

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**Help request button for the disabled**

- Designed to avoid accidental operations
- Little space required on front
- Active surface Ø 40mm
- Text in 4 languages

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Help request button

Help request button for the disabled

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Textes et images non contractuels (update 2017/06)
Mechanical characteristics:
- Material: Plastic bezel and actuator
- Operating temperature: -20°C / +70°C
- Mechanical service life: 3,000,000 operations
- Protection: IP 67/65 front and back, IK 07
- Force: 6 to 12 N.
- Tactile effect
- Stroke: 1.5 mm

Options:
- Metal version (bezel)
- Raised pictogram
- Braille (bezel)
- Colors and pictograms on request

Illuminated characteristics:
- Unlimited choice of lights pictograms with changing color
- Change of color can be automatically or remotely controlled
- Illuminated feedback ring and center of actuator

Sound characteristics:
- Intermittent mode, Frequency = 3.6 Hz (DIN3974) and permanent mode
- Frequency level 3.4 kHz or 880 Hz (DIN 32981) according to model

Electrical characteristics (depending on button model):
- Operating voltage: 24 V +25%, -30%
- Contact: 5 to 137 VDC / VAC 200 mA max.
- Operating current: 5 mA +/- 10%
- Reverse polarity protection
- Connector and cable on request
Mechanical characteristics

- Operating temperature: -40°C / +70°C (depending on cable)
- Mechanical service life: 3,000,000 operations
- Protection: IP 67/65
- Haptic feel

Mounting system

- Automatic tool-free mounting (spring effect)
- 4 to 6 mm glass thickness
- Vandalproof system
- Other operating voltages on request

Options

- Metal version
- Pictogram in relief
- Braille
- Double sided pushbutton, indicator or mixed

Lighting characteristics

- Unlimited choice of back lighted pictograms with changing color
- This change of color can be automatic or remotely controlled
- Illuminated feedback or black ring available

Electrical characteristics

- Operating voltage:
  - Contact: 5 to 45 VDC/VAC 100 mA (other on request)
  - LED (colors on request)
    - Indicator: 12 - 137 VDC
    - Pushbutton: 12 - 36 VDC
- Reverse polarity protection
- Important service life
Illuminated push button

- Active surface Ø 40mm
- Railway standards
- Unlimited choice of back lighted pictograms and colors
- PRM application

**Mechanical characteristics:**
- Operating temperature: -40°C / +85°C (depending on cable)
- Mechanical service life: 3,000,000 operations
- Protection: IP67/65, IK07
- Tactile effect

**Options:**
- Metal version
- Pictogram in relief
- Braille
- Standard or customised electronics diagram

**Lighting characteristics:**
- Unlimited choice of back lighted pictograms
- with changing color
- This change of color can be automatic or remotely controlled
- Illuminated feedback or black ring available

**Electrical characteristics:**
- Operating voltage:
  - Contact: 5 to 137 VDC / VAC 200 mA
  - LED: 24 V (colors on request)
- Reverse polarity protection
- Important service life

**Standards:**
- Conception: EN 14752, STI PRM
- Application: EN 50155
- EMC: EN 50121-2-3
- Environment: EN 60068, EN 60529
- Fire/smoke: NF F 16 101 / 102

**Unlimited choice of back lighted pictograms and colors**

- This change of color can be automatic or remotely controlled
- Illuminated feedback or black ring available

**Railway standards**

- PRM application

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**Illuminated push button**

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