





PRODUCTS FOR DRIVER DESKS

MAFELEC AND TSL-ESCHA

CREATING TOGETHER SMART AND SUSTAINABLE INTERFACES

MAFELEC develops control and signaling solutions for harsh environments. From push buttons to switches, from complete control panels to door control solutions, the company offers products that are best suited to the needs of our partners.

TSL stands for Touch, Signal and Light. Door opening push buttons, signal lights, sounders, indicator and display devices as well as LED lighting are part of the product portfolio. TSL-ESCHA develops, manufactures, and distributes individual customer solutions for public transportation.

Members of the MAFELEC TEAM

TSL-ESCHA based in Halver (Germany) and MAFELEC in Chimilin (France) are part of the MAFELEC TEAM. The owner-managed group of companies offers solutions for HMI, lighting and sensors and is active in the markets of bus and railway, industrial vehicle, industry, energy, defense, aerospace, and elevators.





DRIVER DESKS

LARGE VARIETY FOR INDIVIDUAL APPLICATION

Being flexible and adapted to the specific needs of the customer, Mafelec products are a reference for driver's cabs. We are present, respecting the recommendations of the UIC 612, by being able to propose a wide range of products which cover the various requests. It should be noted that the electrical panels, the cabinets of the driver's cabs and some external operating elements are based on the UIC 612 standard in order to harmonize the different vehicles so that drivers can quickly find their way around.

Drivers from different countries must be able to take control of the driver's cab quickly, regardless of whether the vehicle comes from one country or another. UIC 612 specifies the rules to be applied for the type of product (push button, switches, toggle, etc.), the shape (round or square push button, different toggle heads, etc.), illuminated or not, the color, raised or flush products but also the pictograms to be used. This creates a wide variety of products. For more than 40 years, MAFELEC TEAM have been equipping those applications of the largest rail vehicle manufacturers in Europe and throughout the world.

PRODUCT OVERVIEW

PUSH BUTTONS, INDICATORS & EMERGENCY PUSH BUTTONS

For door control, travel direction, emergency functions



















MAIN FEATURES

- Momentary or maintained functions
- Illuminated or not
- Raised or flush
- 22mm or 30mm panel cut out

KEY POINTS

- Round or square shape
- Different bezels and head colors
- Mushroom from 30 to 70 mm
- Customizable pictogram
- Up to 8 contacts
- Different connections: double faston, screws and brackets or screws and washers
- Accessories can be added

ROTARY SWITCHES

For light control, wiper control, rear wall operation board













MAIN FEATURES

- Momentary or maintained functions
- Illuminated or not
- Raised or flush
- 22mm or 30mm panel cut out

KEY POINTS

- Short or long handle, key, etc.
- Different bezels and handle colors
- Up to 16 contacts
- Different connections: double faston, screws and brackets or screws and washers
- Accessories can be added

TOGGLES, TUMBLERS & JOYSTICKS

For pantograph, train lighting, external warning horn applications



















MAIN FEATURES

- From 2 to 5 positions one-way (0; +/- 17,5°; +/-35°)
- Neutral, ghost, unstable or stable position type
- 30 mm panel cut out (22mm available for tumblers)
- UIC 612 compliant

KEY POINTS

- Different shapes of handle: B, K, M, W & Z
- Different handle's color
- Up to 6 contacts
- Different connections: double faston, screws and brackets or screws and washers

SWITCHES: K4 & C800







MAIN FEATURES

- Slow motion or snap action solutions
- Front mounting

KEY POINTS

- Up to 16 or 80 contacts
- Up to IP65
- 24VDC or 110VDC application
- Up to 4 or 8 positions
- Different sizes of handles
- Special adaption feasible on request









SAFETY FUNCTIONS



CIRCUIT BREAKERS

- AC or DC applications, up to 50 A
- Magnetic-thermic
- Flush-mounted, pluggable or DIN Rail mounting



DEAD MAN PEDAL

- Different dimensions available
- Up to IP65
- 2 positions pedal
- Up to 4 contacts
- Ag/Ni or Ag/Ni+Au self-cleaning contacts

SIGNAL BOXES: BSI

Inform operators of status, train system default signal



MAIN FEATURES

- Customized pictogram
- Customized number of compartments
- Front or rear mounting

KEY POINTS

- Different dimensions available
- Interacting flashing modes or dual color light unit
- Plug and play
- Compact

CHARGING FUNCTIONS & BUZZERS





MAIN FEATURES

- Rear and front mounting
- USB socket: Type A or C, removable module
- Power socket: 250V/16A type E or F

KEY POINTS

- Vandal proof mounting
- Single or double USB socket
- Horizontal or vertical USB socket
- Customization of backlit color for power socket



- · DOOR EQUIPMENT
- PASSENGER COMFORT
- · SANITARIES
- DRIVER DESK
- · SAFETY SOLUTIONS



- · VOLTAGE & CURRENT SENSORS
- · CIRCUIT BREAKERS
- · INSULATORS AND BUSHINGS
- · POWER SWITCHES



- FRONT LIGHTING
- · INTERIOR LIGHTING
- · EXTERIOR LIGHT SIGNATURE





MAFELEC

471, Route de la Cuisinière | 38490 Chimilin | France T +33 4 763 207 33 | contact@mafelec.com www.mafelec.com



TSL-ESCHA GmbH

Elberfelder Straße 1 | 58553 Halver | Germany T +49 2353 66796-0 | info@tsl-escha.com www.tsl-escha.com

MEMBERS OF THE MAFELEC TEAM











