

RAFI

Company Profile



Components and systems for public transports

Solutions with Passion

Solutions for public transports have always been a special challenge for development, production and quality assurance. We have faced these challenges with passion and have been manufacturing electromechanical and electronic products for this branch at our locations in Ravensburg (Germany) and in Mezötúr (Hungary) since more than 20 years. Our

great success in this market segment led to the creation of an independent sales division. So RAFI is capable of offering powerful solutions for the public transport business.

Certification

- ▶ DIN ISO 9001:2000 (DQS)
- ▶ ISO/TS 16949:2002 (DQS)

Research

- ▶ Basic development
- ▶ Material testing

Electronic development

- ▶ Circuit development
- ▶ Component selection
- ▶ PCB design
- ▶ Software development

Design

- ▶ 3D design
- ▶ 2D design
- ▶ Design of tools and production equipment

Mechanical production

- ▶ Contact technology
- ▶ Plastic injection moulding
- ▶ Sheet metal machining
- ▶ Silk screen printing
- ▶ Pad printing
- ▶ From manual to fully automatic assembly

Electronic production

- ▶ Manual and automatic mounting of SMT and THT components
- ▶ Soldering (reflow, wave, vapour phase and selective soldering)
- ▶ Automatic functional tests (ICT, AOI)



CONTROL SYSTEMS

ACTUATORS

COMPONENTS

09/2010

The cab of the future

The RAFI cab of the future provides an insight into the future development of driver's cab. Control platform technologies with a combination of established control and input systems and our new RAFI-GLASSCAPE technology.

Tried and proved RAFI actuators integrated in control panels. These products have provided reliable service in many driver's cabs for decades. Long service life and high quality - a RAFI maxim for over 100 years.

New high-performance panels with RAFI-GLASSCAPE technology expand the operating landscape of the train driver. With flexibly designed and visually high quality input and display instruments. Touchscreens, situation-based inputs and displays, the integration of webcams and electronic timetables are just some of the possibilities of our RAFI-GLASSCAPE technology.

Technologies

RAFI-GLASSCAPE

The new capacitive display/input system with a glass surface. Including multi-touchscreens, individual keys, touchpads, sliders, wheels and proximity sensors.

RAFI control systems

A combination of short-travel keyboards with a membrane surface, RAFIX control units (pushbuttons, selector switches and emergency-stop switches) and customised actuators, control levers and displays.

RAFI Smart Panel

The intelligent panel system with PC functionality for control and visualisation of processes.



More RAFI solutions for public transport



Gear switch for automatic transmission

- Development pursuant to IEC 61508 – SIL2 (functional safety)
- Redundant key logging with Hall IC
- CAN interface
- Digital and analogue inputs



Cockpit for climate control

- Robust control unit with night design
- Customised keycaps with light conductor
- Control knob
- RAFI short-travel keyswitches



Vandal-proof input systems for ticket machines, info terminals and call buttons

- Inputs under difficult conditions
- Short-travel system with metal keycaps
- Customised sizes and lighted versions



Electronic assemblies

- RAFI service portfolio:
- International procurement of components
 - Production optimisation
 - Production
 - Testing
 - Logistics



Keypad for ticket counter

- Short-travel keyboard
- Display
- Bus interface
- Lighting/night design



Electromechanical components

- Short-travel keyswitches for membrane and keycaps MICON 5, RACON 8/12 and RF 15/19
- Control and signal components: RAFIX 16, 22 FS and 22 QR
- Signal lamps
- Keylock switches