

## New Standard PC Keyboards for Industrial Applications



The new Rafi industrial keyboards Type A5, A9 and B9 are MF2 and USB compatible. They additionally provide water protected integrated pointing devices (mini-joy-stick, mouse button or tracker ball) which can be used instead of the common PC mouse with

USB or MF2 interface. The keyboards Type "A5" and "A9" have closed membrane overlay surfaces and so they are water-jet proof to the degree of protection IP 65 according to DIN. The "B9" types are built with Rafi RS 76 full-travel key-switches with keycaps - they look and feel like a standard PC keyboard but they are protected against dust and splash water according IP 54 (DIN). All keyboards are available in housings, integrated in front panels or in 19" drawers, each featuring the current MF layout with Windows function keys and Euro symbol in German, US or English language.

**RAFI**

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## RAFIX 22QR, the New Control Component Range



The RAFIX 22QR control component range was developed with a special focus on clear-cut design and ease of assembly. The system is of modular design: It comprises actuators (e.g. pushbutton, keylock switch, emergency stop pushbutton) which can accommodate up to

three contact blocks (6 individual contacts max.) or, alternatively, two contact blocks and a lamp socket in a snap-on arrangement. The actuators are mounted into round panel cut-outs with a diameter of 22.3 mm and fastened with a handy ring nut without having to use any tool. The over-all height is only 9 mm from the front panel. An integral special seal protects the interior of the actuators against the ingress of dust and water, ensuring the degree of protection IP 65 throughout the service life. The actuator and indicator element is suitable for a "single-person assembly method". The RAFIX 22QR contact blocks snap on to a holder which is fastened to the actuator by means of the revised Rafi bayonet lock.

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## Customized Operating Panels



Rafi GmbH & Co. KG, Germany, has been producing customized operating panels for more than 15 years. These products are based on a wide range of data entry technologies: Touch screen and touch pad systems, membrane keyboards in sandwich design, short

travel keyswitches under overlay or beneath keycaps and electro-mechanical components from the Rafi standard programme (e.g. emergency stop pushbutton). These technologies, often combined with display units, can be integrated into enclosure surfaces in order to design virtual "operating landscapes", imparting an ergonomic and unique appearance to Rafi customers' products. Rafi offers standard electronic units for most a lot of electrical interfaces (e.g. USB, MF2, RS 232) and for the connection to fieldbus systems (Interbus-S, CAN-Bus, Profi-Bus) which can be integrated in or related to customer-specific electronics.

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## New Keyboard System with Fully Illuminated Keys



Rafi GmbH & Co. KG has developed the new night-design keyboard system "RS 76 MX" with fully illuminated keycaps for application in dark rooms or in environments with diffuse light conditions and especially for operating panels in medical technology. The system is based on the tried and tested Rafi RS 76M PCB-mounted keyswitches which were optimised for illumination with regard to both design and material. The snap-on keycaps are designed with light-guiding translucent actuating areas ensuring a uniform distribution of light over the full keycap surface. The light is produced by SMD LEDs soldered to the back of the printed circuit board and lighting through suitable bores in the PCB and openings in the key housing. The system is sold as customer-specific complete solution including electronic circuitry and interfaces directly from Rafi or from the Rafi representatives.

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## RAFIX 22FS, the Ultraflat Control Component Range



Rafi GmbH & Co. KG based in Ravensburg, Germany, is the first supplier to develop a control component range with an extremely small depth behind panel of 9.2 mm which makes it suitable for combined installation together with short-travel keys and other components on the same printed circuit board. The RAFIX 22 FS system comprises actuators and contact blocks. The actuators (pushbuttons, keylock and selector switches, signal indicators and emergency stop) are in accordance with the award-winning design of the RAFIX 22QR control components. They are fastened on the front panel with a ring nut into a 22.3 mm panel cut-out according to IEC 947. The cast-on collar seal made of thermoflex material and an integral special sealing guarantee a water-jet proof degree of protection IP65 to DIN. The contact blocks are provided with gold contacts and designed for low voltage (42V, 250 mW max.).

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**» When each millimetre counts - RAFIX 22 FS «**

**9.2 mm**

## RAFIX 22 FS, the ultra-flat control component range

Do you also have to consider each millimetre when designing your operating panels? Do you also want an attractive design and comfortable handling properties? The new RAFIX 22 FS control component range is the solution:

- Only 9.2 mm depth behind panel, which makes these components suitable for combined mounting together with short-travel keyswitches and electronics on a common PCB
- Complete component range including pushbutton, signal indicator, keylock/selector switch and emergency stop
- Contact blocks with gold contacts designed for 42 V max.

**For more details, please refer to our brochure or to our WWW site!**

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