

A Phoenix Mecano Company

Data sheet

NLF-Backlight

Characteristics

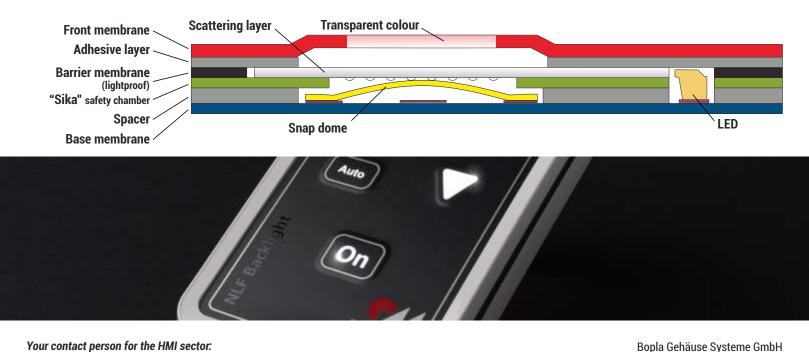
- Even light distribution
- Thanks to the use of side LEDs, no expensive and EMC-ESD problematic converters / inverters are necessary for triggering
 - → The LEDs can be operated with low DC voltage without any additional complex switching circuitry (incl. with battery operation)
- LEDs have a long operating life
 - → Suitable for use in applications with permanent keypad illumination
- Almost all backlighting requirements can be implemented in a compact and cost-effective way
- Both single keys and large areas can be backlit (including individually, i.e. separately from each other)

Field of application

- Wherever the keypad is also to be operated under dark ambient conditions
- As an alternative to the well-known EL membrane
- Not as an alternative to Profiline backlit, because thanks to the high embossing, this technology has an improved tactile action point



- Enclosure BoPad (BOP 500 BE4MC-9016)
- Illumination by means of NLF-Backlight
- Partially recessed textured lacquer



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Profiline (back-lit)

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Characteristics

- · Best haptic and ergonomic features due to the so called "short stroke" feeling
 - > It improves the input interface, including for keys with extremely small or extremely large surfaces
 - → Guaranteed by the high-tactile, robust key-element (inlay) which is fitted between the snap dome and front membrane
- · Even light distribution
- An LED is fitted on the base membrane in the middle of the key
 - → The light passes through a hole in the special snap dome into the integrated acrylic inlay, where it is scattered accordingly
- Key height: approx. 12 mm, tolerance +/- 0.2 mm
- Almost all backlighting requirements can be implemented in a compact and cost-effective way
- Both single keys and large areas can be backlit (including individually, i.e. separately from each other)



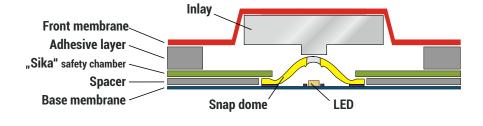
Advanced version: RGB-LED

- · A special RGB-LED makes it possible for a key to light up in different colours
- In addition to classic red, green or blue, a very wide range of mixed colours can be created with the appropriate triggering
- This means that it is possible for a single key to display various situations
 (E.g.: locked status = red; switched on = green; Bluetooth connection = blue; charging = white, etc.)

Field of application

- Wherever the keypad is also to be operated under dark ambient conditions
- Special ambient conditions where, for example, operation using gloves means that very good tactile feedback must be achieved







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