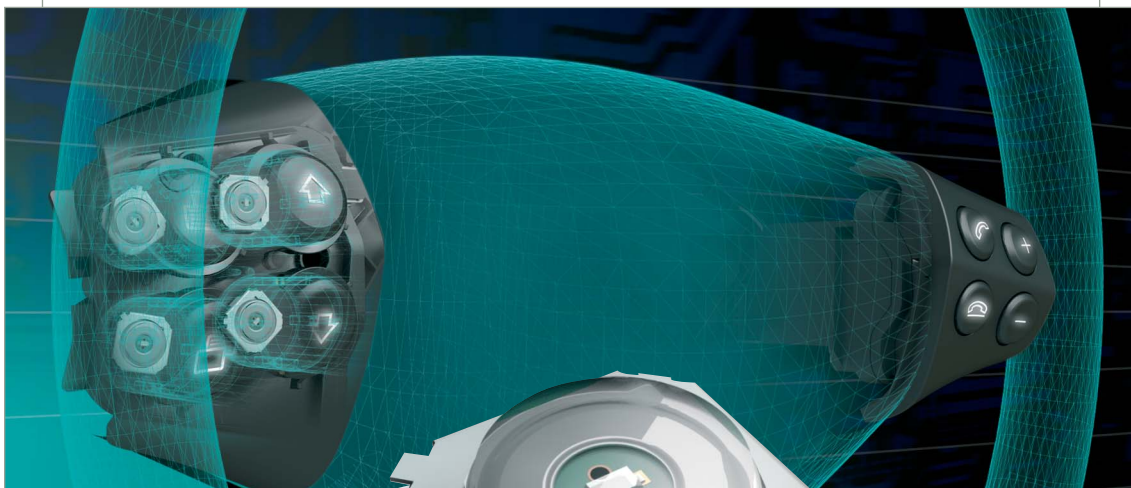
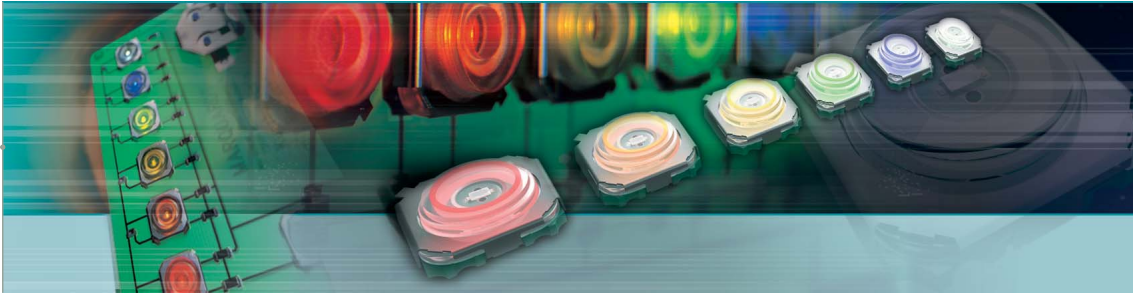

TOP OF THE RANGE HAPTICS

SHORT-TRAVEL KEYSWITCH SERIES 3006



MULTI-TALENT WITH COMFORTABLE ILLUMINATION

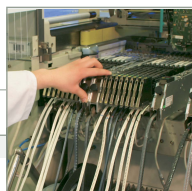
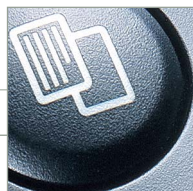


DESIGN AND FUNCTION

Operational reliability, comfortable haptics and high value appearance – factors that count in automobile interiors. The illuminated short-travel keyswitch series 3006 made by Marquardt enables the development and manufacture of control elements which are top of the range in design and function. The special design of the short-travel keyswitch 3006 as a damped snap action disc, a mixture of switching mat and snap action disc, allows very flat control elements with a fine tactile response and clear feedback signal at minimum travel. The LED illumination makes backlit symbols (pictograms) visible even at night.

INNOVATION IN A NEW LIGHT

The 3006 series short-travel keyswitch is the only SMD equippable switch of its size with integrated LED, damping and dust protection according to IP 50. The definition of the LED color provides a brand-typical night design. Selectable actuation forces, tactile pressure point and large actuation surface further enhance the design. All in all the keyswitch is presented as an innovative switching element whose application shines in a new light.



THE KEYSWITCH THAT SETS THE SIGNS



DESIGN

Very compact, single-pole NC short-travel keyswitch in snap action disc technique with damping, integrated LED (optional) and extremely low installation depth.

APPLICATION POSSIBILITIES

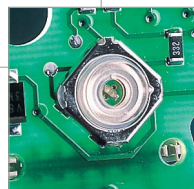
- ♦ control panels
- ♦ multi-function switches
- ♦ steering wheel switching systems
- ♦ individual switching elements

HAPTICS

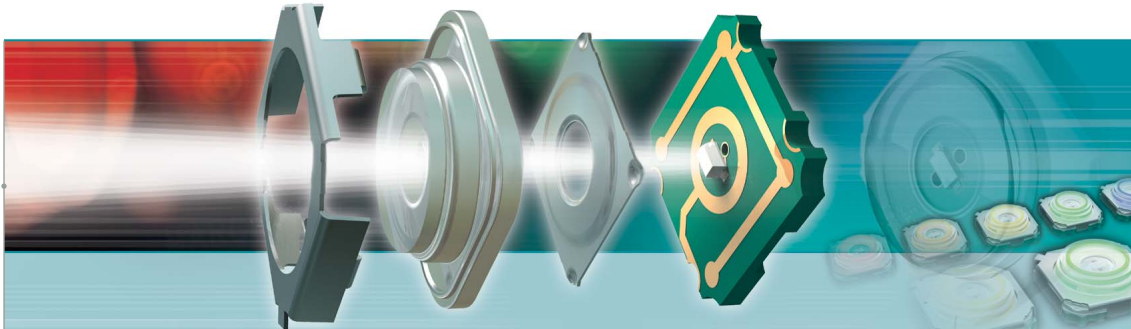
- ♦ precision switching behaviour for comfortable actuation characteristic
- ♦ clearly tactile pressure point

PRODUCT ADVANTAGES

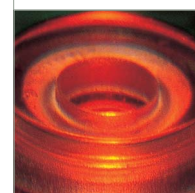
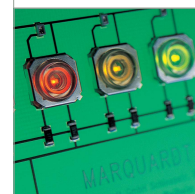
- ♦ large actuation surface
- ♦ low profile even with integrated LED
- ♦ high packing density on the PCB
- ♦ high switching reliability
- ♦ long life endurance $\geq 500,000$ cycles
- ♦ operating forces of 4, 6 or 7.3 N can be selected, other actuating forces on request
- ♦ choice of 5 LED colors, other colors on request



OVERVIEW OF TECHNICAL DATA



| | | | |
|---------------------|---------------------------------|---------------------------|----------|
| Dimensions | 9.85 x 9.85 x 3.95 mm | | |
| Operating force | 4 N | 6 N | 7.3 N |
| Release force | ≥ 1 N | ≥ 1 N | ≥ 2 N |
| Total travel | ≤ 1.1 mm | ≤ 1.1 mm | ≤ 1.1 mm |
| Switching travel | ≥ 0.6 mm | ≥ 0.6 mm | ≥ 0.6 mm |
| Stop strength | > 30 N, not for life cycle | | |
| Contact resistance | ≤ 100 mΩ (new condition) | | |
| Switching voltage | 0.02 ... 28 V | | |
| Switching current | 0.01 ... 50 mA | | |
| Power | max. 1W (ohmic) | | |
| Temperature range | -40 °C ... | +95 °C | |
| Storage temperature | -40 °C ... | +95 °C, 1 h up to +120 °C | |
| Life endurance | ≥ 500,000 cycles | | |
| Reflow soldering | 260 °C, max. 20 sec | | |
| Protection class | IP 50, according to DIN IEC 529 | | |
| Bounce time | < 5 ms | | |
| Contact system | snap-action contact Au/Au | | |
| Terminals | SMT Au | | |
| Packing | blister belt | | |



We reserve the right to alter switches in accordance with technical improvements. Dimensions are not binding.

TECHNICAL DATA

