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Keyboards Frontpanels Nameplates
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Multi-color illuminated keyboard

LUM

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General



- ▶ Single keys or system
- ▶ Day and night design
- ▶ Multi-color keys and illuminated fields
- ▶ Excellent tactile feedback
- ▶ Small mounting depth
- ▶ Slide-in inscription possible
- ▶ Key edge embossing possible
- ▶ 5 colors: blue, white, yellow, green, red

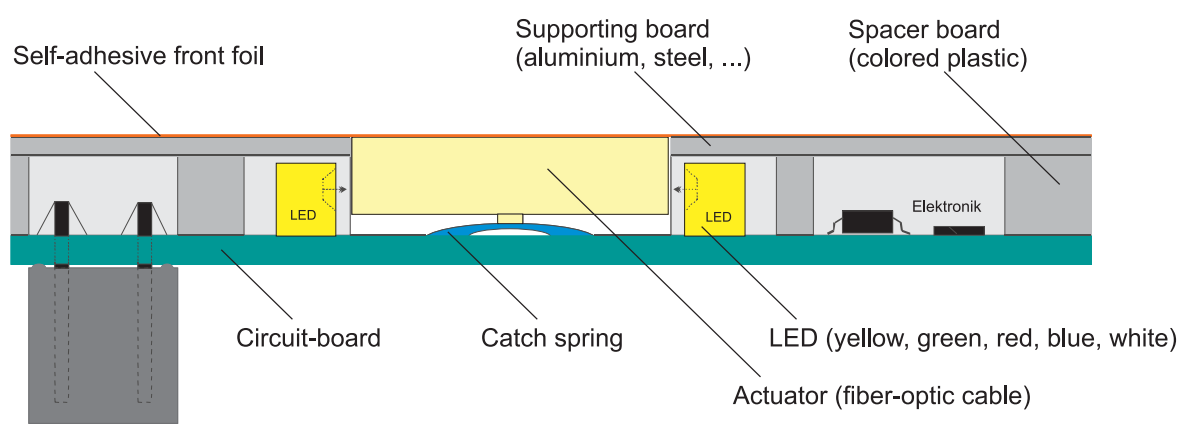


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Design principle



Mechanical data

Actuation force Values dependent on front foil thickness	2.0 - 3.5 [N]
Max. mechanical loading Actuation with standard probe according to DIN 42115, actuation in the center, duration 1 minute	100 [N]
Actuation travel Version with click actuator Ø 12.2	0.5 - 0.6 [mm]
Service life According to DIN 42115 Version with click actuator Ø 12.2	1* 10 ⁶ actuations

Thermal data

Operating temperature Polyester front foil Alternating climate according to IC 68-2 T1	-25... + 85 [°C]
Storage temperature Polyester front foil	-40... + 85 [°C]
Degree of protection At front	IP65





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Electrical data

Max. switching voltage	42 [V _{DC}] 30 [V _{AC}]
Min. switching voltage New condition	20 [mV _{AC/DC}]
Max. switching current	100 [mA]
Min. switching current New condition	0.1 [mA]
Rated switching power (resistive load)	1 [W]
Service life At rated switching power Version with click actuator Ø 12.2	>1* 10 ⁶ actuations
Trace resistance Flexible PCB, silver print color Width 0.70 mm, thickness 10 µm Solid PCB, copper-lined Width 0.3 mm, thickness 35 µm Note: loop resistance dependent on contact material and type of contact making	max. 1 [mΩ/cm] max. 50 [Ω/cm]
Voltage endurance Between any connections	35 [V]
Bounce time Actuation with standard probe according to DIN 42115, actuation in the center, speed 0.5 m/s	typ 5 [ms]
Insulation resistance Between adjacent connections, test according to DIN 42115	>10 ⁸ [Ω]



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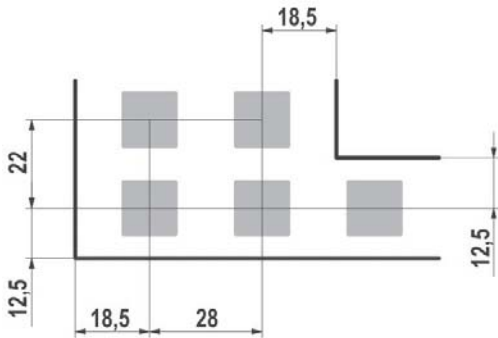
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Dimensional drawings

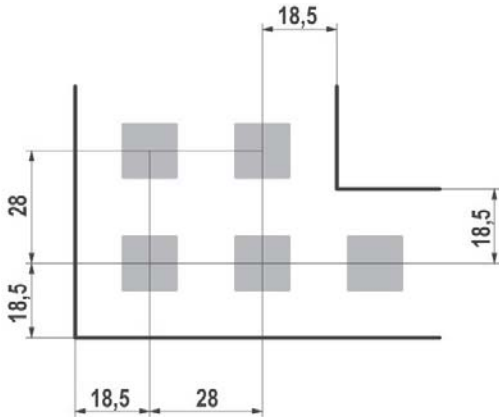
Minimum key and edge distances

Version with click actuator \varnothing 12.2

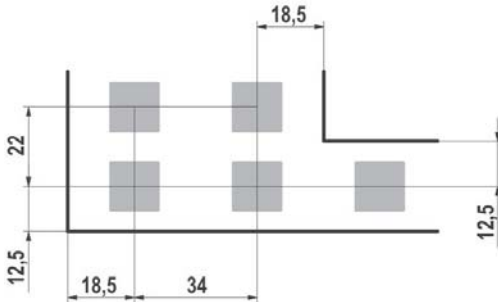
One color per key:



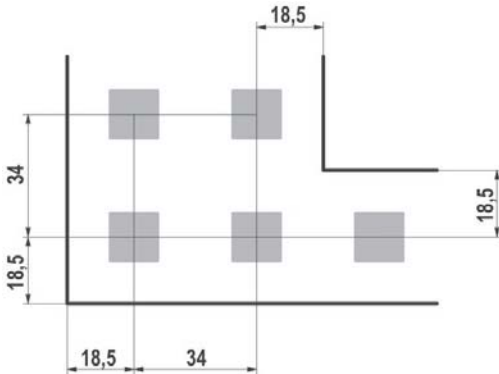
Two colors per key (version 1):



Two colors per key (version 2):



Three of four colors per key:



Remarks:

- Only embossing of the key edge is permissible.
- Slide-in inscription possible above and next to keys.
- Integration of multi-color single keys possible in systems.



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