



## Input Solution



Silk screen printing



Ink fill



Combination with spray,  
laser and print

## Description

- Printing with silicone colors using silk screens masks
- Additional coating is requested
- For best protection use Abatek's Sealplast
- Flat surfaces is preferable
- Engraved surface is filled with ink
- For best protection use Abatek's Sealplast

## Advantages

- Cost efficient
- Design freedom
- Positive and negative printing possible
- Fair abrasion resistance without coating

## Applications

- Combined with Abatek's Sealplast also for outdoor applications

## Key Tech. Data

### Colors Symbols

- Any color possible
- Special symbols upon request
- Any color possible



Silicone keypad with silk screen print



Silk screen positiv print



Silk screen positiv print

## Contacts

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America:  
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## Input Solution



**One layer**  
**Light control**



**Two layer**  
**Night design**



**Three layer**  
**Night design**

## Description

- For decorative surface or back lighted units
- Multiple ink layers can be lasered to get desired letters or symbols
- Clear LED windows
- For best protection use Abatek's Sealplast
- Adjusted milkiness of silicone rubber for soft night design and homorganic back lighting



## Advantages

- Design freedom
- No plastic caps needed
- Night design possible
- Multi color keys with different symbols can be next to each other
- Abatek has the best protective coating in the market – see Info Sheet Sealplast coating



## Applications

- Any application

## Key Tech. Data

### Layer thickness

- Min 20 micron per layer



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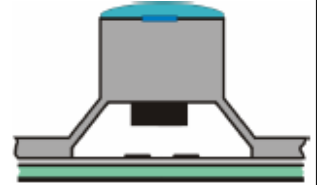
**Input Solution**



**Sealplast coating**



**Silicone coating**



**Epoxy coating**

## Description

- The best in the market!
- Developed exclusively by Abatek Group
- High quality coating for any raised silicone part
- Glossy to matt surface available
- Standard silicone coating to protect against abrasion of any raised silicone part
- Soft touch
- Epoxy applied on key top
- Coating for flat raised silicone part only
- Optical lens effect
- Thick and glossy

## Advantages

- Best abrasion resistance
- Antistatic
- Protection against oil and most chemicals
- Low friction
- Easy to clean
- Silicone based
- Fair abrasion
- Low cost
- Glass like surface
- Very good abrasion resistance
- Low friction

## Applications

- Any application with print
- If possible not to be applied on membranes
- Any application with print
- Any application with print
- On small surfaces and on keytop only

## Key Tech. Data

**Resistance to abrasion**  
**Gloss [E]**  
**UV resistance**

- > 20 m
- Matt and glossy
- > 1000 h
- > 2 m
- Matt only
- > 1000 h
- > 20 m
- Glossy only
- > 10 h

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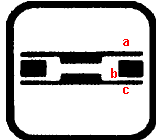
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## Input Solution



**Non tactile**



**Mylar Dome**



**Metal Dome**

## Description

- Offers greatest number of operating cycles
- No tactile feedback
- Fair number of operating cycles with tactile feedback
- Click is not as specific as with metal dome
- Tactile feedback
- Comparatively higher cost

Products are available in various textures and rigid stiffener LCD windows.  
RFI/EMC shielding and LED are available.  
SMD components can be placed on mylar circuit or connector for tail termination.

## Advantages

- Low cost
- Hidden key option
- IP65
- Cost effective
- Fair tactile feel
- IP65
- Greatest tactile feel
- IP65

## Applications

- Operation panel switch
- Navigation system
- Measurement table
- Fridge
- Keyboard
- Wearables
- Remote control
- Payment terminal

## Key Tech. Data

**No. of cycles [#]**  
**Actuating force [g]**

- |               |               |               |
|---------------|---------------|---------------|
| • > 5millions | • > 1millions | • > 1millions |
| • 57 – 284    | • 170 - 397   | • 170 - 397   |

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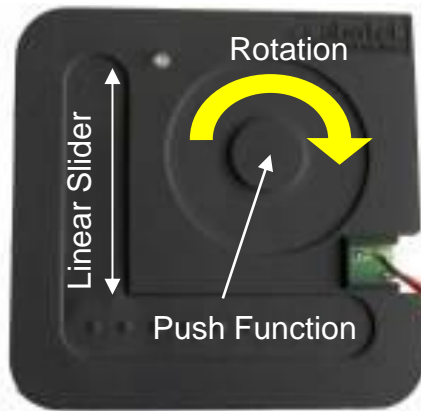
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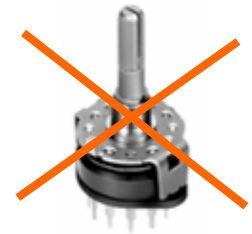


Input Solution



## Description

- The smart alternative to rotary switches or sliders
- Silicone surface with or without art work to cover electronics
- Electronic layer with incorporated tactile elements
- Pressure sensitive with or without tactile feeling



## Advantages

- Rotation or sliding **without** moving parts
- Tactile feedback on flat surface
- Simple and thin
- Endless rotation
- High design freedom (back lighting, art work, etc.)
- Easy combination with keypads
- For best protection use Abatek's Sealplast



## Applications

- Menu selection
- Mirror adjustor
- Volume controller
- Window lifter
- Other control units



## Key Tech. Data

Actuating force [N]  
Min distance between contact [mm]  
Stroke mm

- 0.5 – 1.5 / with tactile feel min 1.0
- 4 / with tactile feel min 6.0
- 0.3 – 1.0 / with tactile feel min 0.5

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