

Backlit Membrane Keypads

Lighting Source:
RGB LED Light Tile

Recommended Circuit:
FR4 Rigid PCB

Background & Technical:

Create full & selective backlighting by incorporating RGB LED Light Tiles onto your PCB Keypad Assembly (PCBA). Ideal for light sensitive environments and applications where consistent diode emission is required for prolonged periods of time. Low operating temperature & power consumption, long life cycle and full customization make RGB Light Tiles an increasingly popular backlighting solution.

Custom designed.

Maximum size of 700 x 700 x 3mm.

Hard wired to PCB board (2 x wires) with the light tile being adhered or screwed into position on the PCBA.

Can be manufactured to allow for mechanical fixtures & components on the PCBA and designed to fit around available land on the board.

No background noise like other backlighting solutions such as Electroluminescence (EL).

Further enhancements to the light effect can be achieved by adding selective tinting and secret-til-lit prints to the Graphic Overlay.

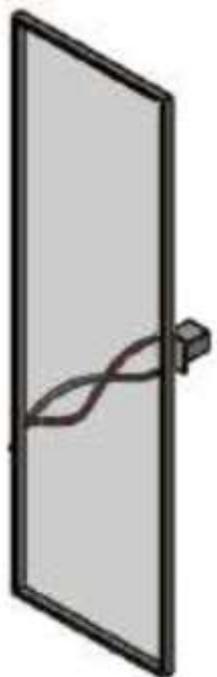
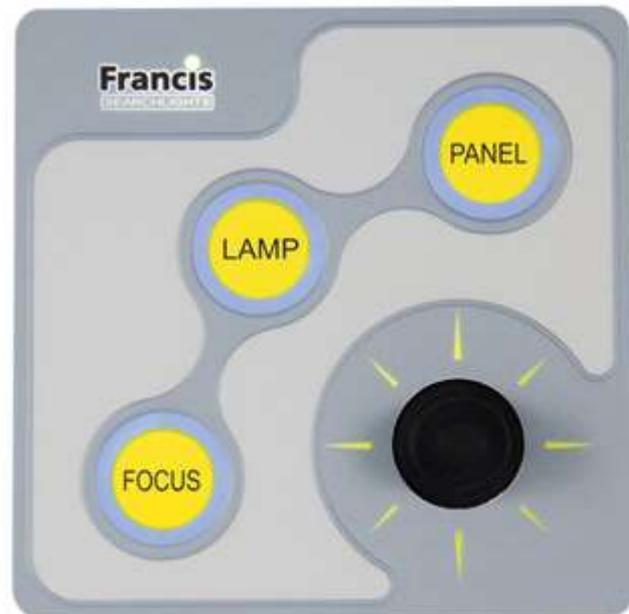
Typical Power Requirements Yellow, Red, Amber or Green LEDs: LED operation voltage circa 2.0V.
Current circa 10mA~15mA no more than 20mA.

Blue or White LEDs: LED operation voltage circa 3.0V. Current circa 10mA~15mA no more than 20mA.

Other colours available.

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Backlit Membrane Keypads

Lighting Source:
Side Firing LED

Recommended Circuit:
Flexible Polyester (PET) or Flexible Kapton (FPC)

Background & Technical:

Create full & selective backlighting by incorporating Side Firing LEDs into a flexible Membrane Keypad. Ideal for light sensitive environments and applications where consistent diode emission is required for prolonged periods of time. Low operating temperature & power consumption, long life cycle and full customization make embedded LEDs an increasingly popular backlighting solution.

Custom Designed

No limits on X & Y dimensions. Maximum thickness 1mm

Shared characteristics with standard Membrane Keypads

Range of LED colours including white, blue, red, orange, green, yellow plus bi-colour and tri-colour combinations.

Embossed or Non Embossed

Tactile or Non Tactile

Full, gradient and selective backlighting options including switch positions.

Seamless backlighting, no shadow or witnessing from domes.

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