

Touch buttons behind glass with RGB backlight

Article number PR130s01



These touch buttons work through a 3 mm glass panel, for clean controls without mechanical switches. Side-emitting LEDs provide a multicolour backlight, dimmable with an external PWM signal and even at an on-board voltage of 18 to 28 V; each button gives a momentary signal that switches to GND. The module is the basis for your own controls: versions with 2 to 5 buttons are available, unused sensors can be disabled and we make similar controls to measure. For cleaning the glass, an extra touch button or a card can switch the panel off for a short time.

Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	12 to 32 V DC; ripple ± 20 mV max.
Input	Touch through 3 mm glass; PWM dimming input up to 500 Hz, high from 12 V up to the supply voltage, low up to 0.6 V, 1 mA at 24 V
Output	Momentary outputs switching to GND, 400 mA max. (sink, absolute limit); clamp diode 33 V
Setup	Automatic calibration at power-up, within 2 seconds
Backlight	Multicolour (RGB), dimmable with PWM up to 500 Hz; colour deviation ± 5 %
Versions	2 to 5 buttons; unused sensors can be disabled
Connection	12-pin and 14-pin connectors
Protection	Self-resetting fuses and reverse polarity protection
Moisture	Splashing water causes no false triggers; continuously running water or conductive liquids can trigger buttons
Ambient temperature	-20 to 80 °C in operation (absolute limits -25 to 85 °C); humidity 10 to 90 %, non-condensing
Mounting	Behind 3 mm glass firmly supported by aluminium, in a conductive, earthed enclosure

Setup

1. Make sure the supply is de-energised before connecting.
2. Mount the board in a conductive, earthed enclosure, behind 3 mm glass firmly supported by aluminium.
3. Keep conductive materials and cables at least 2 cm away from the board.
4. Connect the module with the 12-pin and 14-pin connectors; make sure the numbering matches the connection specification.
5. Switch on the supply and keep fingers and objects at least 2 cm from the panel during calibration (2 seconds).
6. Use the supplied test set-up to check the sensitivity and response of each button.
7. After installation, check that the enclosure is properly earthed.

More information, price and lead time: www.procircuits.nl/en/products/pr130s01

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