

FX TYPE: BreadBuddy

Enclosure Size: 1590A and up © 2019 madbeanpedals



Overview

The 14mm is a small utility PCB made for the Alpha 14mm clear shaft pots. It allows you to use an LED directly in the shaft of the pot so you can have "back-lit" controls. It does require the panel mount version of this pot so it can be affixed to the enclosure face. These 14mm pots can be used with or without a clear shaft knob. For knobs, you'll want to use types made for a knurled shaft.

PS I called this "14mm" because the actual size of 16.4mmx15mm doesn't exactly roll off the tongue and because I don't do size well.

Parts needed

Pot

http://smallbear-electronics.mybigcommerce.com/alpha-clear-shaft-pots-w-bushing/

3mm LED

http://smallbear-electronics.mybigcommerce.com/led-t-1-3mm-diffused-colors/ http://smallbear-electronics.mybigcommerce.com/led-t-1-3mm-water-clear-high-brightness-colors/

1/4W Resistor (4k7 for diffused, 10k or 22k for high brightness)

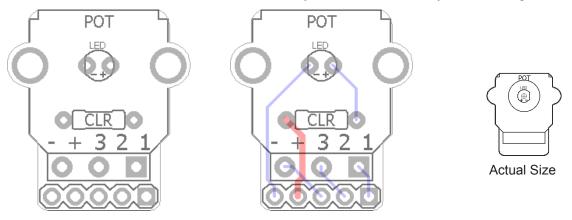
http://smallbear-electronics.mybigcommerce.com/resistors-1-4-w-1-metal-film-1/

Optional Knobs

http://smallbear-electronics.mybigcommerce.com/pointer-w-index-clear-acrylic/http://smallbear-electronics.mybigcommerce.com/fluted-miniature-pointer-abs-colors-for-knurled-shaft/

Notes

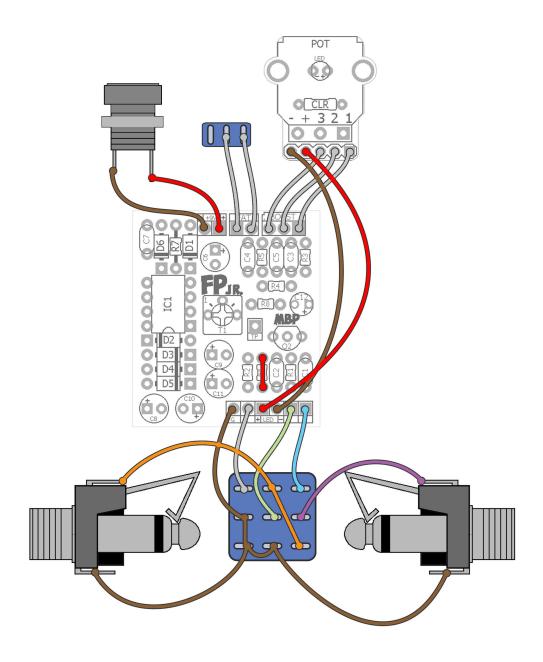
You can use these as "always on" LEDs for your builds or put your bypass indicator in one (so it only lights up when the pedal is on). In either case, I recommend you do not stuff the 3mm LED *all the way* down into the shaft. Leave a little gap between the LED and end of the shaft otherwise the shaft may catch the LED when you are turning it and twist it.



Terms of Use: You are free to use purchased **14mm** circuit boards for both DIY and small commercial operations. You may not offer **14mm** PCBs for resale or as part of a "kit" in a commercial fashion. Peer to peer re-sale is fine, though.

Technical assistance for your build(s) is available via the <u>madbeanpedals forum</u>. Please go there rather than emailing me for assistance on <u>builds</u>. This is because (1) I'm not always available to respond via email in a timely and continuous manner, and (2) posting technical problems and solutions in the forum creates a record from which other members may benefit.

Wiring Example 14mm



Here's a wiring guide using the FatPants as an example. R6 is jumpered, being the CLR for the bypass LED on the FatPants PCB, and power passed to the 14mm PCB from the "+" pad. Now, the bypass LED will illuniate the pot when the effect is turned on..