

PGF8000 Series

Linear manual faders



Combining innovative design with carefully selected materials, the PGF8000 Series fader provides the features and reliability that you expect from a Penny+Giles product. Conductive plastic tracks, precious metal contacts and twin guide rods ensure smooth operation whilst maintaining excellent long term electrical and mechanical performance.

- 100mm stroke
- internal track switch facilities
- external microswitch options
- single or dual channels
- linear, audio log or VCA outputs

SELECT THE FADER OPTIONS YOU REQUIRE

Stroke length	100mm ¹		
Output law	Log audio taper ²	Linear ¹	VCA ⁶
Output channels	One ⁰	Two ²	
Fader type	series 8	stroke 1	law channels
Resistance	5kΩ ^C	10kΩ ^D	VCA2k7Ω ^E
Mounting threads	M3 ^M	4-40 UNC ^U	

Please enter the codes for your first two options. This will identify the fader data shown opposite

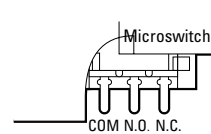
Switch options

Pre-fade listen

An internal switch which operates before the active track is reached. This is at the infinity end of the fader and always under spring load.

Fader start/Auxiliary

An internal track switch or external microswitch which operates when the slider is within 4mm from the infinity mechanical stop.



Microswitch current must not exceed 100mA.

Internal pre-fade listen* (2mA max)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal track switch* (2mA max)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External microswitch (100mA max)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overpress mechanism (no internal switch)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detent mechanism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

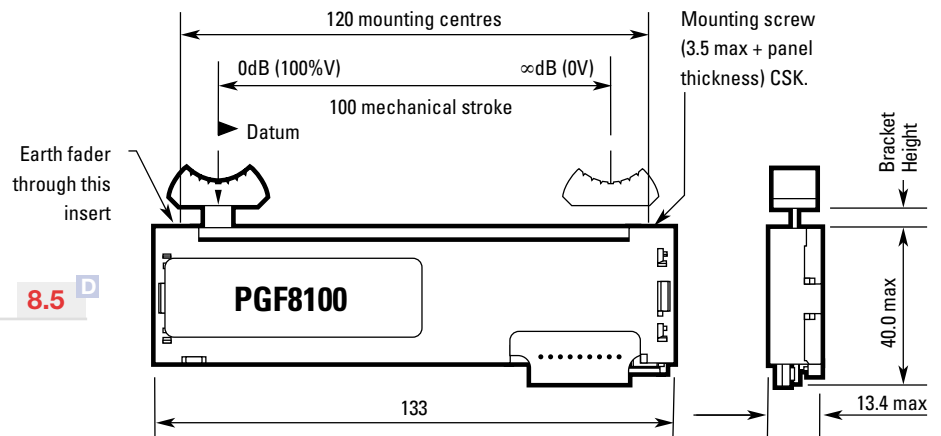
Only one switch option per column to be selected

Note: *Available only on mono units.

Dimensions and knob bracket options

All dimensions shown in mm

Bracket height 4.1 ^A 5.3 ^B 6.6 ^C 8.5 ^D



Output law characteristics

Log audio taper

Maximum insertion loss 0.5dB. Typical input related crosstalk 85dB.

Linear

Maximum end volts 1.0%.

VCA

Type	Accuracy	Matching accuracy for stereo option (relative to track 1)	Cut off
8120	±1.0dB (0-20)	-	100dB
8122	±2.0dB (21-40)	±1.0dB(0-40)	

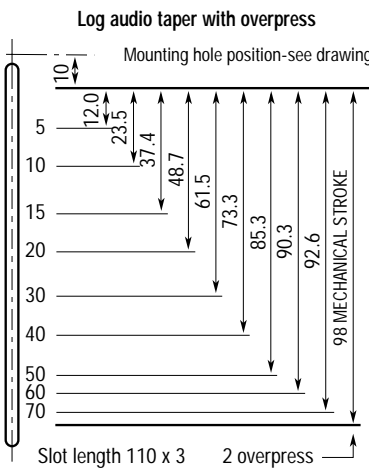
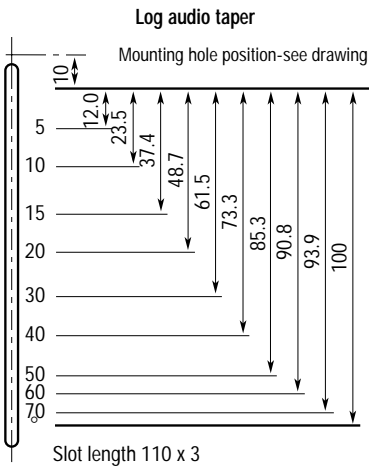
Type	Accuracy	Matching accuracy for stereo option (relative to track 1)
8110	±2.0	-
8112		±2.0

Type	Slider travel (mm)	% Output	% Tolerance
8160	0	100	-1.0
	12.0	95	±2.0
	23.5	90	±2.0
	37.4	85	±2.0
	48.7	80	±2.0
	61.5	70	±3.0
	73.3	60	±3.0
	85.3	50	-
	90.8	40	-
	96.3	30	-
	100.0	0	+1.0

Note: The ratio of fader resistance to wiper load should be 100:1 or higher

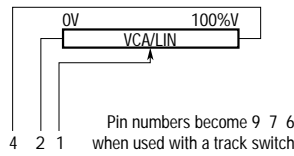
Test conditions: • wiper load 100kΩ log only • element resistance 10kΩ • frequency for crosstalk and cut-off 15kHz • frequency for law accuracy 1kHz • typical input-related crosstalk 85dB

Panel graduations/slots

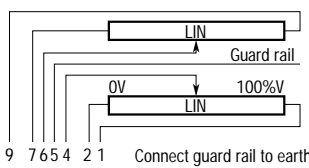


Circuit diagrams/Terminations

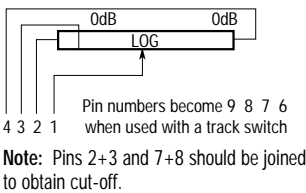
Fader type PGF8110 • 8160
Pin 1 - Yellow
Pin 2 - Blue
Pin 3 - Red



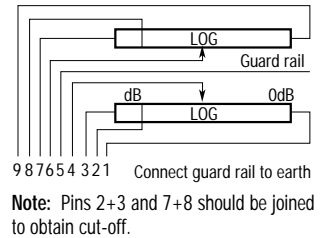
Fader type PGF8112
Pin 1 - Red
Pin 2 - Blue
Pin 4 - Yellow
Pin 5 - Black
Pin 6 - Yellow
Pin 7 - Blue
Pin 9 - Red



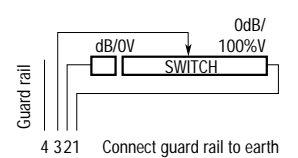
Fader type PGF8120
Pin 1 - Yellow
Pin 2 - Green
Pin 3 - Blue
Pin 4 - Red



Fader type PGF8122
Pin 1 - Red
Pin 2 - Blue
Pin 3 - Green
Pin 4 - Yellow
Pin 5 - Black
Pin 6 - Yellow
Pin 7 - Green
Pin 8 - Blue
Pin 9 - Red



Available on mono faders only
Pin 1 - Black
Pin 2 - White
Pin 3 - Grey
Pin 4 - Black

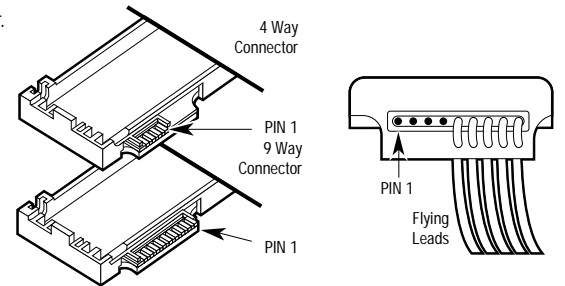


Note: Fader fitted with either a 4 or 9 way connector.

Mating connector:

Contacts:
JST type
SEH-001T-P0.6

Housing:
JST type
EHR-4 or EHR-9



Fader knob options

The following knob colours are available in both 11mm and 16mm widths:



TO ORDER OR OBTAIN A QUOTATION Please contact your nearest sales office and advise:

The series number and description, the output law, resistance, fixing threads, switches and bracket height.

For example: • PGF8000 manual fader • 100mm stroke • log law • 1 channel • 10kΩ resistance • M3 mounting inserts • internal track switch • 4.1mm knob bracket height. Penny+Giles would code this fader as:

Fader type PGF8 1 2 0 / D / M / S - - - / A