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
**PGF 8000**
linear manual fader

**SELECT THE FADER OPTIONS YOU REQUIRE**

<table>
<thead>
<tr>
<th>Stroke length</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output law</td>
<td>Log audio taper</td>
</tr>
<tr>
<td>Output channels</td>
<td>One</td>
</tr>
<tr>
<td>Fader type</td>
<td>series</td>
</tr>
</tbody>
</table>

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

| Resistance | 5kΩ | 10kΩ | VCA2k7Ω |
| Mounting threads | M3 | 4-40 UNC |

**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.

**Internal pre-fade listen track switch** (2mA max)

**Internal track switch** (2mA max)

**External microswitch** (100mA max)

**Overpress mechanism (no internal switch)**

**Detent mechanism**

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

**Safety warning**
50Vdc maximum voltage
The PGF8000 is designed for operation at voltages not exceeding 50Vdc

**DIMENSIONS AND KNOB BRACKET OPTIONS**

All dimensions shown in mm

| Bracket height | 4.1 | 5.3 | 6.6 | 8.5 |

**PGF8100**

**Mounting screw**
(3.5 max + panel thickness) CSK.

**Microwire**
N.O. N.C.

Current must not exceed 100mA.

Only one option per column can be selected
Note:*Available only on mono units.

**Earth fader through this insert**

**Datum**
0dB (100%V)
100 mechanical stroke

**Mounting screw**
(3.5 max + panel thickness) CSK.

**Bracket Height**
40.0 max
13.4 max

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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.

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**Bracket Height**
40.0 max
13.4 max
OUTPUT LAW CHARACTERISTICS

Log audio taper
Maximum insertion loss 0.5dB - typical input related cut-off 85dB

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy</th>
<th>Matching accuracy for stereo option (relative to track 2)</th>
<th>Cut-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>8120</td>
<td>±0.1dB (0-20)</td>
<td>-</td>
<td>100dB</td>
</tr>
<tr>
<td>8122</td>
<td>±2.0dB (21-40)</td>
<td>-</td>
<td>1.0dB</td>
</tr>
</tbody>
</table>

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, insulation resistance 20MΩ at 50Vdc.

Linear
Maximum end volts 1.0%

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy</th>
<th>Matching accuracy (relative to track 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8110</td>
<td>±2.0%</td>
<td>-</td>
</tr>
<tr>
<td>8112</td>
<td>±2.0%</td>
<td>-</td>
</tr>
</tbody>
</table>

CIRCUIT DIAGRAMS/TERMINATION PANEL GRADUATIONS/SLOTS

The following knob colours are available in both 11mm and 16mm widths. Knobs are available to purchase separately.

- grey
- yellow
- green
- blue
- black
- red
- orange
- white

Available on mono faders only

Note: Pins 2+3 and 7+8 should be joined to obtain cut-off.

Log audio taper
Mounting hole position-see drawing

Slot length 110 x 3

Log audio taper with overpress
Mounting hole position-see drawing

Slot length 110 x 3 2 overpress

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 3 - Green
Pin 4 - Yellow
Pin 5 - Black
Pin 6 - Yellow
Pin 7 - Green
Pin 8 - Blue
Pin 9 - Red

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

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

FASTER KNOB OPTIONS

The following knob colours are available in both 11mm and 16mm widths. Knobs are available to purchase separately.

FADER KNOB OPTIONS

white  grey  yellow  green  blue  black  red  orange

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
www.pennyandgiles.com

Penny & Giles
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Quality is at the heart of all our systems ensuring the reliability of our products from initial design to final despatch.

The products detailed in this document are supplied as components for installation into an electrical apparatus or system. They are outside the scope of the EEC directive and will not be CE marked.

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