

Penny+Giles

A Curtiss-Wright Company

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

www.pennyandgiles.com

PGF8000 SERIES LINEAR MANUAL FADERS

PGF8000

linear manual fader



SELECT THE FADER OPTIONS YOU REQUIRE

Stroke length	100 ¹		
Output law	Log audio taper ²	Linear ¹	VCA ⁶
Output channels	One ⁰	Two ²	
Fader type	series PGF8	stroke 1	law law
Resistance	5kΩ ^C	10kΩ ^D	VCA2k7Ω ^E
Mounting threads	M3 ^M	4-40 UNC ^U	

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

SWITCH OPTIONS

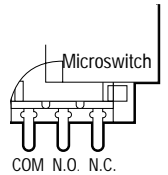
Pre-fade listen

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.

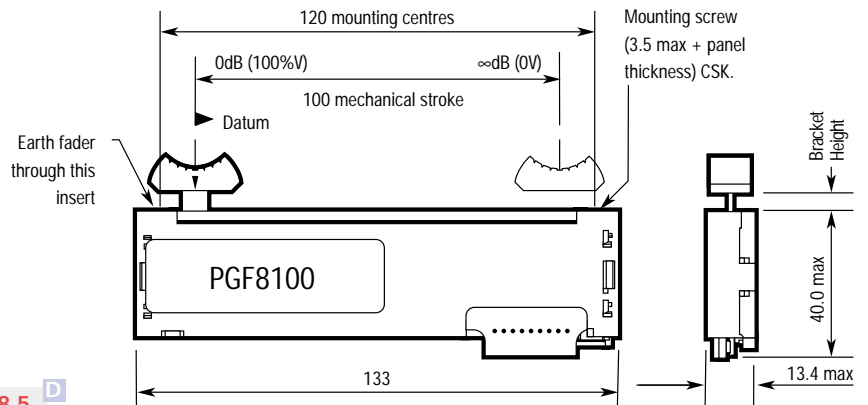


Internal pre-fade listen track switch* (2mA max)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal track switch* (2mA max)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External microswitch (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 option per column can 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
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OUTPUT LAW CHARACTERISTICS

Log audio taper

Maximum insertion loss 0.5dB - typical input related crosstalk 85dB

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)	

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%

Type	Accuracy	Matching accuracy (relative to track 1)
8110		-
8112	±2.0%	±2.0%

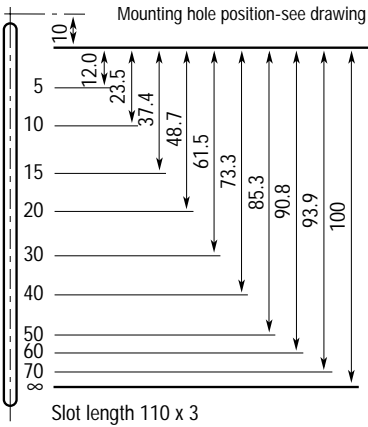
VCA

Refer to Penny+Giles for laws other than standard

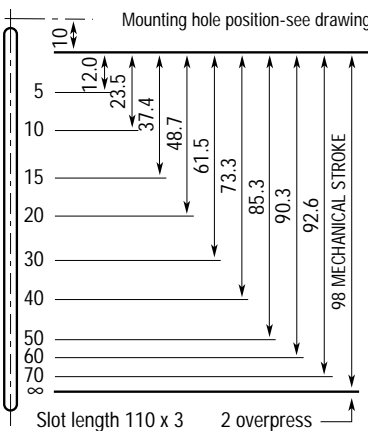
Type	Slider travel (mm)	% Output	% Tolerance
8160	0	100	-1.0
	12.0	95	±2.0
	23.5	90	±2.0
	37.4	85	±2.0
	48.7	80	±2.0
	61.5	70	±3.0
	73.3	60	±3.0
	85.3	50	-
	90.8	40	-
	96.3	30	-
	100.0	0	+1.0

PANEL GRADUATIONS/SLOTS

Log audio taper

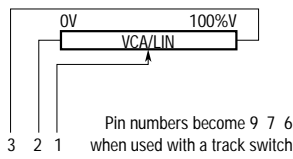


Log audio taper with overpress

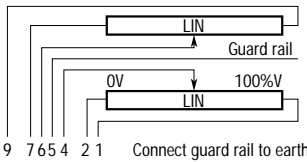


CIRCUIT DIAGRAMS/TERMINATIONS

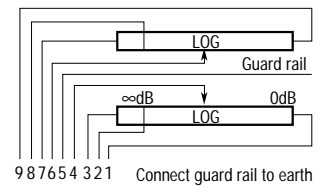
Fader type
PGF8110 • 8160
Pin 1 - Yellow
Pin 2 - Blue
Pin 3 - Red



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

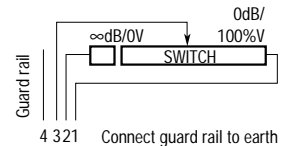


Fader type
PGF8122
Pin 1 - Red
Pin 2 - Blue
Pin 3 - Green
Pin 4 - Yellow
Pin 5 - Black
Pin 6 - Yellow
Pin 7 - Green
Pin 8 - Blue
Pin 9 - Red

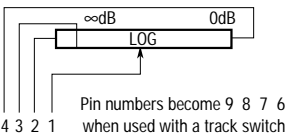


Note: Pins 2 + 3 and 7 + 8 should be joined to obtain cut-off.

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



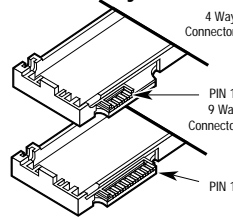
Fader type
PGF8120
Pin 1 - Yellow
Pin 2 - Green
Pin 3 - Blue
Pin 4 - Red



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

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. Knobs are available to purchase separately.



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	series	stroke	law	channels	resistance	inserts	switches	bracket
PGF8	1	2	0	/	D	/	M	/
							S	-
							-	-
							-	A

www.pennyandgiles.com

Penny & Giles

Faders and controllers, position sensors, joysticks and solenoids for commercial and industrial applications.

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Quality Approvals



Certificate No. LRO 0924881

Penny+Giles are accredited to BS EN ISO 9001:2008

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



EMC Directive 2004/108/EEC

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.

The information contained in this brochure on product applications should be used by customers for guidance only.

Penny+Giles Controls Ltd makes no warranty or representation in respect of product fitness or suitability for any particular design application, environment, or otherwise, except as may subsequently be agreed in a contract for the sale and purchase of products. Customer's should therefore satisfy themselves of the actual performance requirements and subsequently the products suitability for any particular design application and the environment in which the product is to be used.

Continual research and development may require change to products and specification without prior notification.

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