

### Description

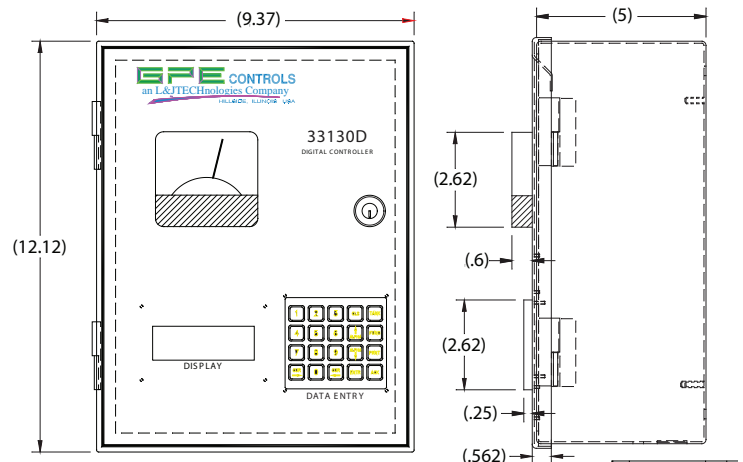
The Model 33130D Webguide Controller eliminates the need for a separate electronic controller for various guiding applications.

The revolutionary controller accepts input signals from all of GPE's photoelectric and capacitance sensors. Also two different control modes are provided, PSF (Proportional Speed Floating) or PPF (Predictive Position Feedback). Controller outputs can operate the proper moving coil systems of GPE electrohydraulic controls.

The 33130D allows the operator to precisely adjust parameters via an external keyboard. The setpoints and present operating conditions are conveniently displayed on a local LCD display.



### Outline Dimensions



### Typical Applications

#### Centerguide



**GPE 33130D**  
with  
**GPE 31611**  
Capacitance Center  
Sensor

#### Edge Guide



**GPE 33130D**  
with  
**GPE 31551**  
LED Edge Guide Sensor

- Proportional Control
- Reset Control (Optional)
- Accepts Inputs from GPE Sensors
- Digital Hydraulic Controller
- Keypad Adjustable Gain, Zero
- Microprocessor Controlled
- Digital & Analog Display



### PRODUCT DATA SHEET

### Specifications

**Input Power:** 110 VAC  $\pm$  10%, 50/60 Hz@1Amp  
(220 VAC optional)

**Input Signal:** Variable resistance from photoelectric edge or line guide sensors.

**Output Signals:**

A. *Proportional-Speed Floating (PSF) or Predictive Position Feedback (PPF) To Moving Coil Controller: Nominal  $\pm$  10 VDC into 250\* ohms (min.)*

\*Recommended Moving Coils:

1. Encapsulated Coil  
Part RB-778-33-11 (320 ohm).
2. Impregnated Coil  
Part RB-776-89-11 (380 ohm).

B. *Regulated Power to Sensor Models:*  
31530-01, 31551-X1.....12 VDC, 1 Amp

C. *For Manual Operation:*  
To Moving Coil Controller:  
Programmable - 5, 0, + 5 VDC or  
12 VDC, 150 ohm min. External Supply

**Ambient Temperature:** 32°F to 120°F, 10-95% RH

**Programmable Adjustments:**

- |                   |                     |
|-------------------|---------------------|
| A. Gain, HIGH/LOW | E. Sensitivity *    |
| B. Offset         | F. Reset Switch *   |
| C. Reset Time *   | G. Auto Calibration |
| D. Stroke Time *  | H. Display Contrast |
- (\*PPF only)

**Display:** 4 line LCD

**Indicator Output:**  $\pm$ 10VDC Analog + Digital Reading.

**Frequency Response:** PSF Output 0-200Hz (3db down)  
PPF Output 0-40Hz (3db down)

**Options:** Control Relays  
Discrete Inputs  
Remote Communication - RS232 or RS485

**Fuse:** 1 amp, Part Number 649076 (amplifier board)  
3/4 amp, part 649376 (power supply) 2 amp, part 649020 (power supply)

**Protection:** 1. AC Line: MOV transient suppression  
2. Moving coil controller load: thermal limited shutdown.

**Construction:** Steel, Gasketed enclosure with hinged door, black enamel finish.

### How to Order

The model number will consist of a base number 33130D followed by two 2 digit numbers which represent the options listed in the two tables following.

Specify:

1. Model 33130D Digital Webguide Controller
2. Sensor Type
3. Control Mode
4. Accessories as Required

**33130D-XX-XX**

**Sensor Type**  
see Table I

**Control Mode**  
see Table II

#### TABLE I - Sensor Type

Option Number	Description
01	CDS Edge/Line Guide
02	CDS Edge Guide (2.3 VDC)
11	CDS Centerguide
21	SIL Edgeguide (28 VDC)
22	SIL Edge/Line Guide (11 VDC)
31	SIL Centerguide (28 VDC)
41	Autowide
51	Capacitance Centerguide
61	LED Edge Guide
62	LED Center Guide

#### TABLE II - Control Mode

Option Number	Description
01	Proportional Speed Floating (PSF)
02	Predictive Position Feedback (PPF)