

New Improved Heavy Duty Photoelectric Edge Guide Sensor



To Hydraulic Controller



for the metals industry

General Description

The Model 31551 Heavy Duty Edge Guide Sensor is specifically designed for heavy duty strip guiding applications, where maximum versatility is required. The sensor consists of two sturdy cast steel housings which are mounted separately, providing greater installation flexibility. One housing contains the photocell and is available in two options, either photoresistive (cadmium sulfide) or photovoltaic (silicon solar cell). The other housing contains the light source.

Improved optical system of Model 31551 allows for lamp and photocell housings to be spaced up to 144 inches apart. This provides the maximum in physical protection.

The Model 31551 Edge Guide Sensor is intended to be used with the GPE Model 33130D Digital Controller or GPE 33130 Analog Webguide Controller, which provide the operating signal for GPE's Electro-hydraulic or Powerpulse type controllers. The Electronic Controller provides for three control modes, such as Proportional Speed Floating, Predictive Position Feedback or Two Speed Floating. In addition, signals are acceptable for centerguide operation when two sensors are used.

How to Order

- Model 31551 Heavy Duty Edge Guide Sensor.**
- Photoresistive** (cadmium sulfide photocell) or **Photovoltaic** (silicon solar cell) with or without lamp housing.
- Edgeguide or Centerguide application** (2 sensors required for centerguide).
- Model 33130D Digital Controller** must be specified separately.

■ High Sensitivity

Detects better than .005" of lateral strip displacement..

■ Versatility

Sensor provides signal for Electrohydraulic or Powerpulse Controller. Photocell and lamp housings can be mounted up to 144 inches apart.

Electronic Controller provides for choice of three control modes and choice of edge or centerguide operation.

■ Reliability

Photocell and lamp operate at low voltage for increased life.

■ Rugged Construction

Heavy duty cast steel housings can withstand vibrations and impact from strip.

■ Simple Adjustments

Requires only gain and bias adjustments to match line process requirements.



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Heavy Duty Edge Guide Sensor GPE 31551

PRODUCT DATA SHEET

Specifications

Lamp Input 11 VDC, 1 amp max. supplied by Model 33130D Digital Controller or Model 13610 Powerpulse Controller.

22 VAC, 1 amp max. supplied by Model 33130D Digital Controller for Centerguide applications.

Output Photoresistive to Model 33130D Digital Controller or Model 33130 Analog Webguide Controller

Photovoltaic to Model 13610 Powerpulse Controller or Model 33130D Digital Controller or 33130 Analog Controller.

0-180 microamps, typical short circuit current at 6' gap.

Resolution Infinite

Temperature + 10°F to 130°F

Sensitivity Full correction speed with .005" of lateral strip displacement when used in a typical GPE Control System.

Construction Case semi-steel

Weight 13 lbs. per housing

Sensor Gap 4" minimum to 6' maximum when fluorescent lamp source is used.

4" minimum to 12' maximum when standard lamp housing is used.

14" fixed gap when standard housings are used with accessory mounting bar.

Outline Dimensions

