

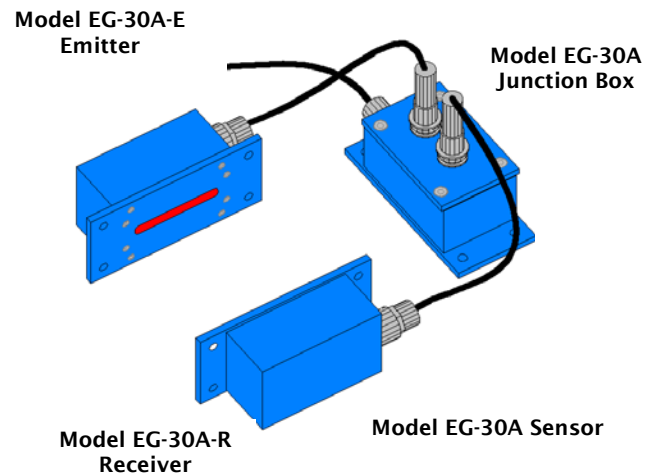
Model EG-30A

Edge Guide Sensor

Overview

The SCAN-A-LINE™ Edge Guide Sensor – Model EG-30A from Harris Instrument Corporation provides a highly reliable and repeatable edge guide and control gage for industry. The Model EG-30A sensor is a non-contact, electro-optical sensor designed primarily for the edge position detection of strip material edges. Over the years, it has been found to be an extremely versatile and cost-effective guiding and control sensor for process lines. The Model EG-30A sensor is compatible with a variety of SCAN-A-LINE™ processing units (up to two sensors per processing unit). Because of its versatility, reliability and survivability, the Model EG-30A is the most cost effective edge detection sensor systems on the market today.

The Model EG-30A sensor consists of an emitter, a receiver and a junction box with twenty feet [2.13m] of cabling for connection to a processing unit. Each emitter contains an array of Light Emitting Diodes (LEDs) that are lit sequentially. The receiver photocell detectors, under a cylindrical lens, generates an electrical current whenever the pulsed light from the emitter reaches the photocell. Since the light from the emitter is pulsed at 20kHz, the current generated also pulses at 20kHz, helping to prevent the interference of typical ambient lights with a proper edge detection. The Model EG-30A sensor system very compact (emitter and receiver measure 6.4 inches [162mm] long by 3 inches [76mm] wide by 2.4 inches [61mm] deep in standard enclosures), including attached mounting plate.



Options & Configurations

Standard Configuration Provides highly efficient edge detection for edge guiding and control applications.

Infrared LED's (IR Option) Permits the Model EG-30A sensor to operate with light sensitive materials. Also provides for operation in very hazy or smoky conditions.

ULTRA-TOUGH™ Option (UT Option) Provides excellent crash protection with thick cast aluminum housings and borosilicate viewing windows along with sealed connectors and neoprene gaskets.

Features

- Compatible with most SCAN-A-LINE™ processing units (up to two sensors per unit): General Processing Unit – Model GPU Level One, PID Control Processing Unit – Model PCPU Level One and the TPC Control Processing Unit – Model TCPU Level One.
- Polane-painted Aluminum Housing with borosilicate viewing window, neoprene gaskets and stainless steel hardware for superior fluid and leak protection.
- Vibration Resistant, Time-based Edge Detection.
- Absolute Analog Output: 0VDC to 10VDC @ 10mA, 5VDC center.
- Repeatability: 0.02" [0.51 mm]
- Sampling Rate: 667 times per second.
- Sensing Range: 2.8" [71.1 mm] Maximum



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