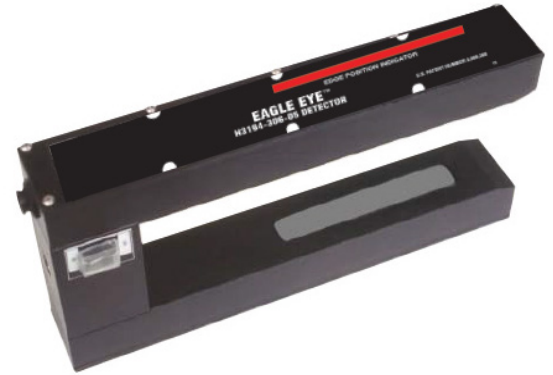




The ground breaking Eagle Eye detector from Fife is a microprocessor-based photoelectric sensor designed to meet the unique requirements of the carpet, textile and other specialized industries.



Using a novel method of scanning both LED's and photo-transistors, this detector determines material characteristics and makes calculated decisions determining desired edge position. The unique ability to guide carpet tufting edge inlaid on selvage material makes this a powerful tool for coating lines and other difficult carpet processing applications. The tufted edge can be reliably sensed at locations with primary backing only, or combination primary and secondary backing. The detector is capable of sensing the edge of the tufting through both dark and translucent primary backing. Tufting edge with stepped, or sawtooth patterns can be guided with no bothersome pitch or amplitude knob adjustments due to a digital averaging algorithm employed. Similarly, a smooth response to ragged edges is enabled through this feature.

Key enhancements offered by the Eagle Eye are two additional sensing modes that provide a significant performance boost when processing tucked, double-tucked, or frayed selvage edges. Pattern recognition logic senses the actual outer edge while ignoring transparent areas. This advanced feature sets this sensor apart from other traditional photoelectric sensors that sense and react to varying opacity. Additionally, the sensor is substantially insensitive to lens dirt buildup.

## SPECIFICATIONS

**Model Number:**

H3194-306-05

**Cables:**

15 ft (4.6 m) for SimPlex™ controllers; H3194-6425-15  
 15 ft (4.6 m) for H6400 controller; H3194-6400-15  
 15 ft (4.6 m) SimPlex extension cable;  
 H6415-DETEXT-15  
 15 ft (4.6 m) with un-terminated end for remote guide adjust; H3194-RGA-15

**Output Signal:**

0 to 2.5 V dc or ±10 V dc, jumper selectable

**Logic "1" input for remote guide point adjust:**

12 to 28 V dc

**Power Requirements:**

15 to 24 V dc, 1.8 watts

**Field of View:**

4.48" (113.8 mm)

**Protective Lens Sleeve:**

H25-4194-1

**Resolution:**

0.07" (1.8 mm)

**Gap:**

3" (76.2 mm)

**Housing Material:**

Aluminum

**Lens Material:**

Glass

**Weight:**

4 lb (1.8 kg)

**Housing Seal Rating:**

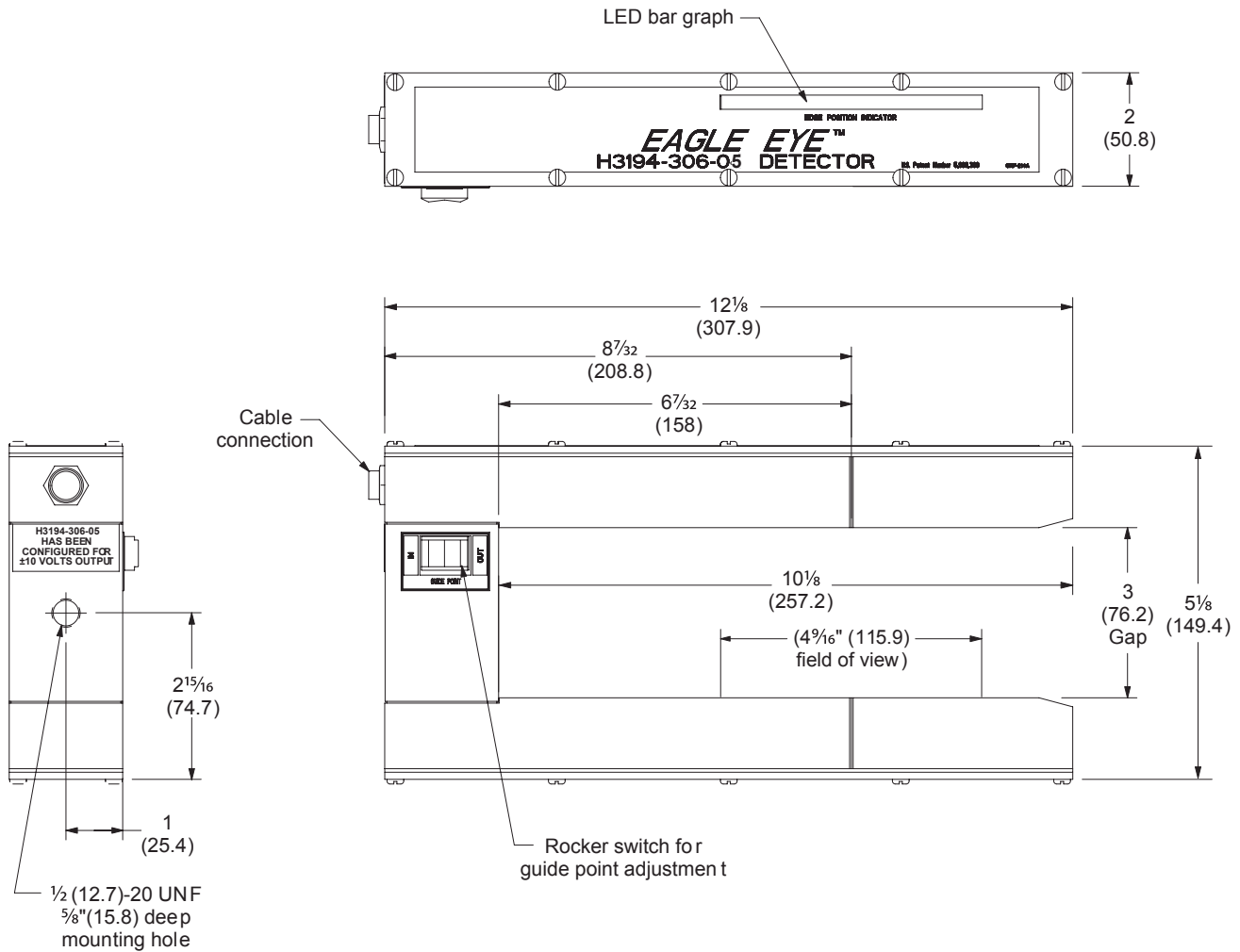
IP64

## KEY FEATURES

- New for the H3194-306-05 – Ignores tucked or frayed selvage
- Directly compatible with all existing Eagle Eye installations
- Guides to tufted edge while ignoring single or double layer selvage
- Guide point adjustable by detector-mounted switch or remotely via logic inputs
- Exceptionally wide 4.48" (113.8 mm) field of view
- Sensed edge indicated on LED bar graph
- Maximum tolerance to lens dirt due to pattern recognition techniques
- Ignores sawtooth and jagged edges using digital averaging methods

# H3194-306-05 EAGLE EYE

## DIMENSIONS



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