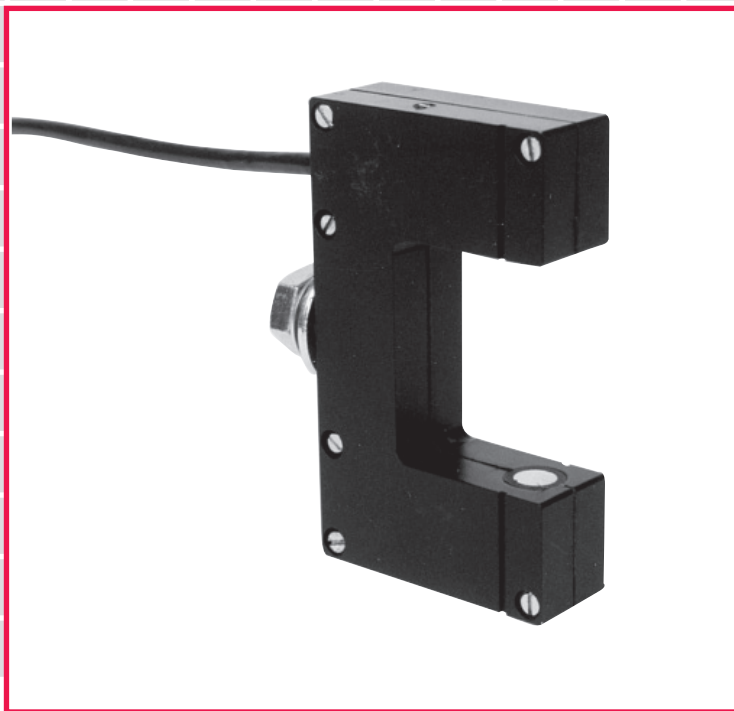


## H3303 Ultrasonic Detector

U.S. Patent 5,126,946



- Temperature compensated
- Excellent with webs of varying opacity
- Greater dust/film buildup tolerance than optoelectronic sensors
- Minimal sensitivity to ambient acoustic noise
- Minimal guide point shift with pass-line variation in center 1.7" (42mm) of gap
- 0.15" (3.8 mm) field of view
- Direct plug connector at controller for easy installation
- IP55 water resistant housing

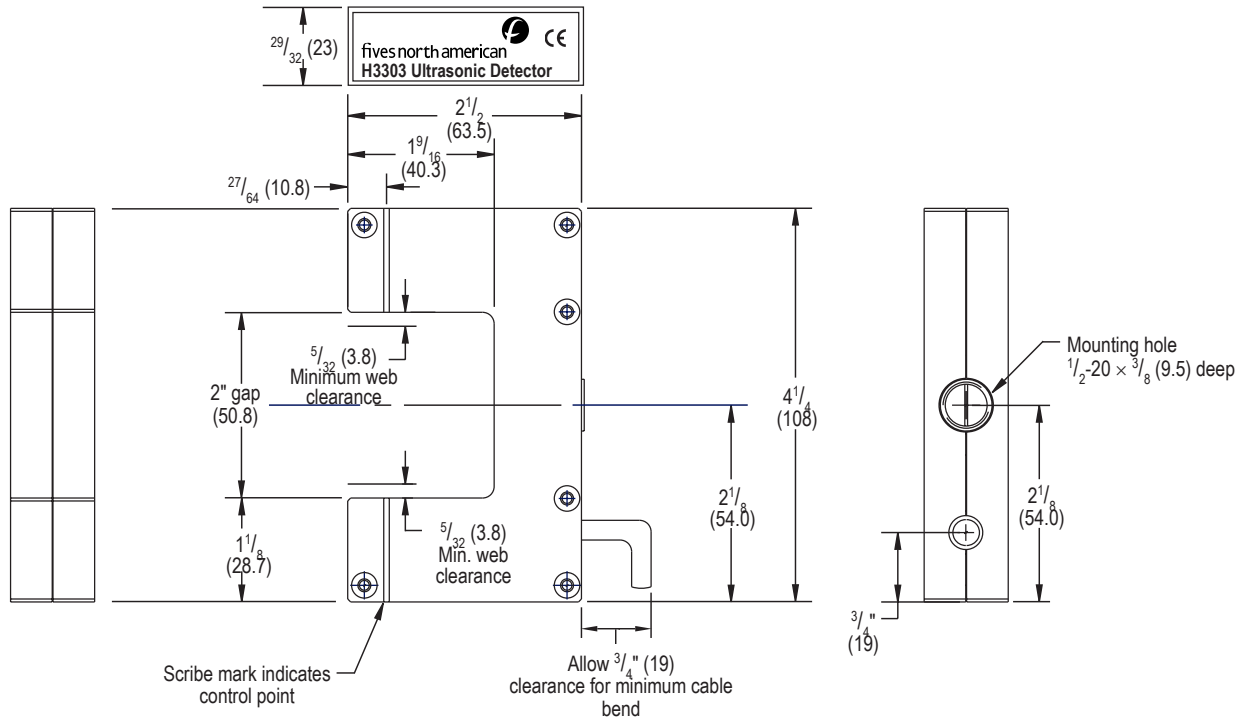
Fives North American's H3303 Ultrasonic Detector provides accurate edge sensing of a wide range of process materials.

Ultrasonic detectors are recommended for webs with varying opacity, such as printing on clear film, or guiding on printed areas. They also excel in guiding photosensitive films and where control point shift from moderate buildup of dust/contamination on the sensor must be minimized.

The H3303 detector utilizes a pulsed emission concept emitting short bursts of 220 kHz sound. It is a through beam detector with the sound wave emitting from one side of the "C", and the amplitude of that signal measured at the opposing receiver side. Integral temperature compensation minimizes the effects of fluctuations in ambient temperature.

## DIMENSIONS

inches (mm)



DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC.  
IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

## SPECIFICATIONS

**Model Numbers:**

H3303-6415-2/07	7 ft (3 m) cable and connector for H6415 controller
H3303-6415-2/15	15 ft (4.6 m) cable and connector for H6415 controller
H3303-6400-2/15	15 ft (4.6 m) cable and connector for H6400 controller

**Output Signal:** 0 to 2.5 V dc

**Field of view:** 0.15" (3.8)

**Sound frequency:** 220 kHz

**Supply voltage:** 15 V dc (supplied by controller)

**Power consumption:** 250 mW

**Compatible web materials:** clear and photographic films,  
many porous and all non-porous materials

**Housing:** aluminum, rated IP55

**Operating temperature:** 32 to 130 F (0 to 55 C)

**Temperature sensitivity:** less than 0.0005" (0.013) per  
degree C

**Size:** 4 1/4" (108) H x 2 1/2" D (63.5) x 29/32" (23) W

**Gap dimension:** 2" (50.8)

**Passline sensitivity:** ±0.003" (0.08) control point shift over  
±0.85" (21.6) from centerline

**Cable termination:** 4 pin circular connector

### Fives North American Combustion, Inc. Guiding Systems

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