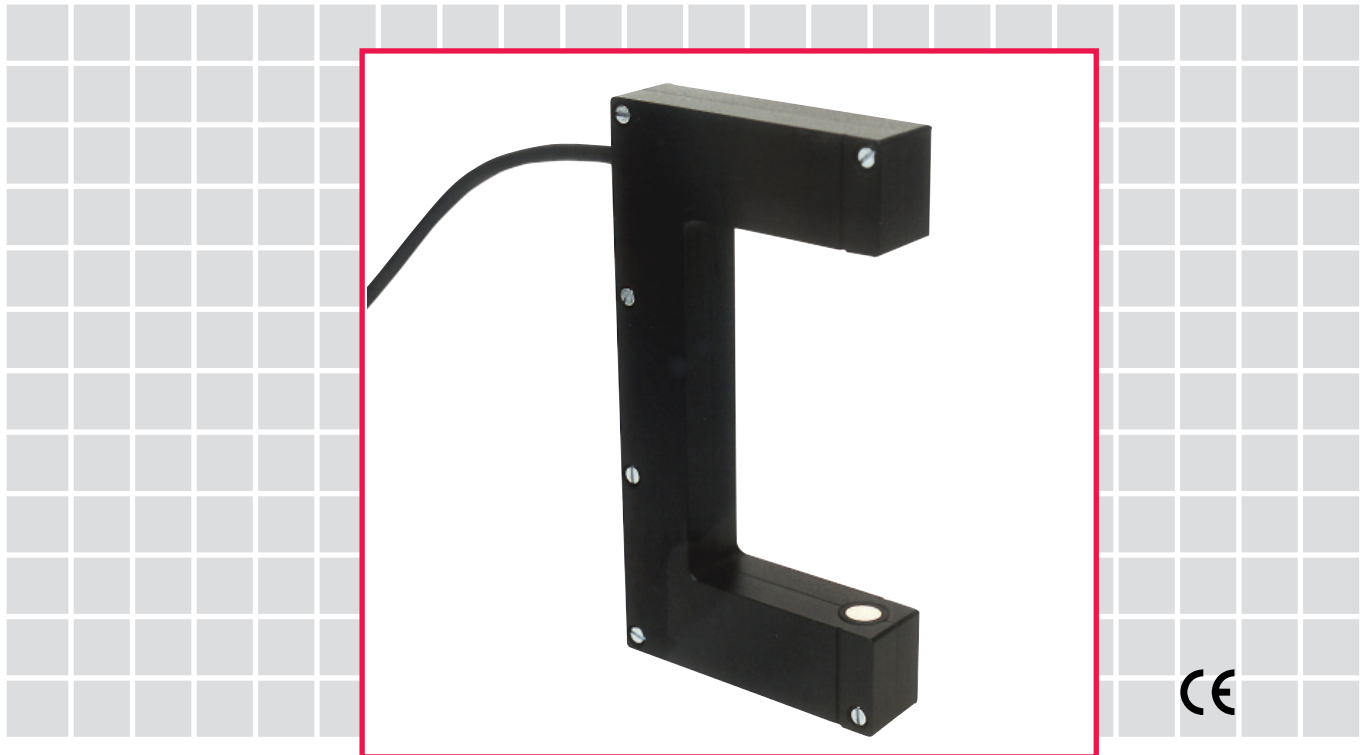


H3304 Ultrasonic Detector

U.S. Patent 5,126,946



- Large 4" (101 mm) gap to accommodate large passline variations
- Temperature compensated
- Excellent with webs of varying opacity
- Greater dust contamination tolerance
- Negligible sensitivity to ambient acoustic noise
- Less than .005" (.13 mm) guide point shift with passline variation
- 0.2" (5 mm) field of view
- IP55 water resistant housing

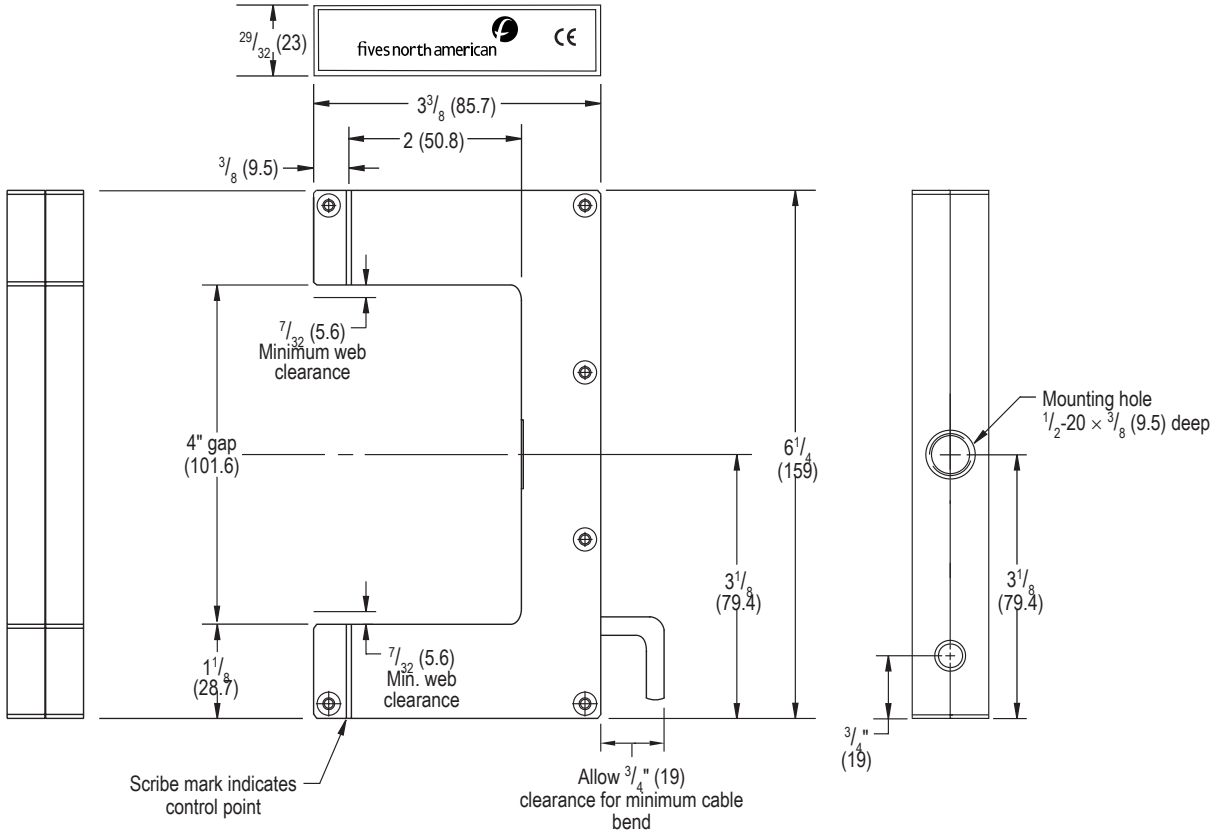
Fives North American's H3304 Ultrasonic Detector, featuring a 4" gap, can accommodate greater passline changes for guiding wider webs. It provides accurate edge sensing of a wide range of process materials.

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 H3304 detector utilizes a pulsed emission concept emitting short bursts of ultrasonic 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:

- H3304-6415-4/07 7 ft (3 m) cable and connector for H6415 controller
- H3304-6415-4/15 15 ft (4.6 m) cable and connector for H6415 controller

Output Signal: 0 to 2.5 V dc

Field of view: 0.2" (5)

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: 6 1/4" (159) H x 3 3/8" D (85.7) x 29/32" (23) W

Gap dimension: 4" (101.6)

Passline sensitivity: ±0.005" (0.13) control point shift over ±1.78" (45.2) from centerline

Cable termination: 4 pin circular connector

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