

# H3662 LINE SCAN SENSOR



The H3662 Line Scan Sensor is an edge, centerline, or width detecting IR sensor. Using IR light, it illuminates a retro-reflective tape (reflector), which is placed behind the web. The light returned by the reflector is imaged onto a linear array within the sensor. The H3662 compensates for uniform decay of the optics due to dust build-up or discoloration of the lens/reflector cover. An integrated microcontroller analyzes the signal from the array and detects the exact position of the web's edges.



The following modes can be selected via buttons on the rear of the sensor.

Edge mode: Position of the first edge from the left or the first edge from the right.

Center mode: Center position of the web.

Width mode: Distance from the first to the last edge.

## GENERAL OVERVIEW

### Analog output:

1.0–5.0 V dc or 3.33–16.67 mA  
(depending on cable selection)

### Fault output:

6.0 V dc or 20 mA (depending on  
cable selection)

### Power:

15 to 28 V dc at 150 mA or less  
(supplied by SimPlex™ controller)

### Resolution:

2000 pixels (0.05% of field of view)

### Linearity:

Better than  $\pm 0.3\%$

### Sampling frequency:

500 samples/second or greater

### Serial port:

RS485 (for use with H3661–  
UIKIT-001)

### Light source:

Infrared, 880 nm

### Operating temperature range:

0–55 C (32–130 F)

### Housing material:

Zinc die cast

### Environmental rating:

IP67

### Optical window material:

Glass

## KEY FEATURES

- Integrated sensor array and light source
- Direct plug connector at controller
- Automatic compensation for dust with alarm output
- 2000 Pixel resolution
- Width, edge and center position sensing
- Field of view up to 875 mm (34.4")
- Accurate width measurement
- Quick setup, simple operation
- 0.3% Linearity

# MOUNTING BRACKETS

Fife provides a number of mounting options on a standard or custom basis for H3662 Sensor applications. The H3661-2035 is a universal mounting bracket to facilitate alignment of the sensor to an independent reflector and is used when a common mounting frame cannot be accommodated in the space available. The H3662-150 sensor and reflector is available in standard C-shaped frames. To ensure optimal performance and ease installation, custom designed C-shaped frames or O-shaped frames are available for edge guide, center guide, or width measurement applications utilizing the H3662-350 and H3662-875 sensors.



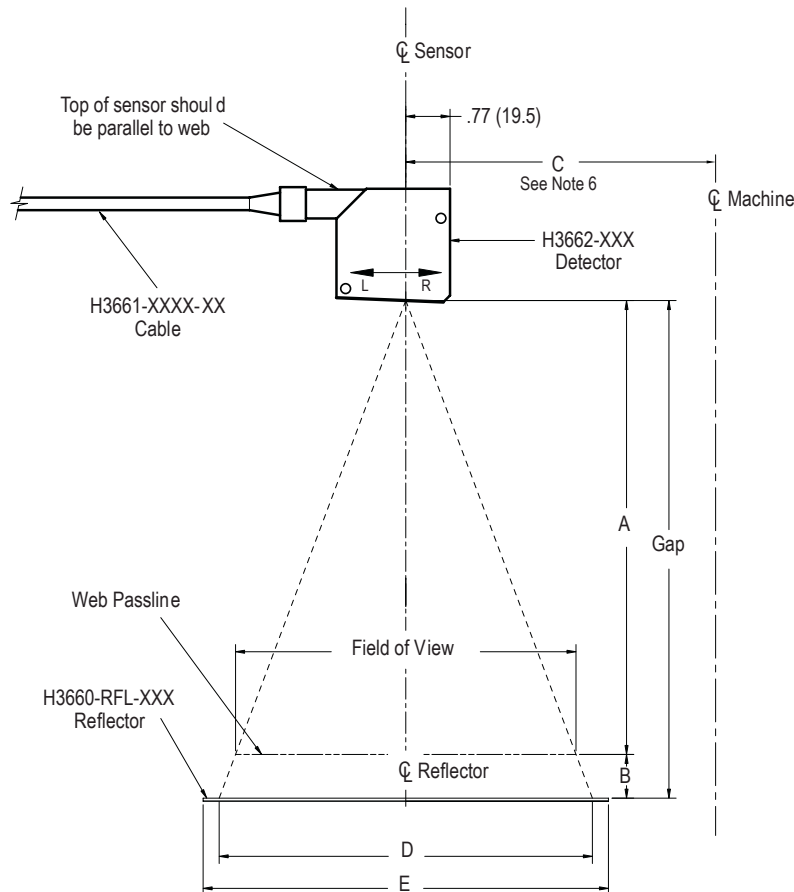
**H3661-2035  
Universal Mounting Bracket**



**H3662-150CEG-001**



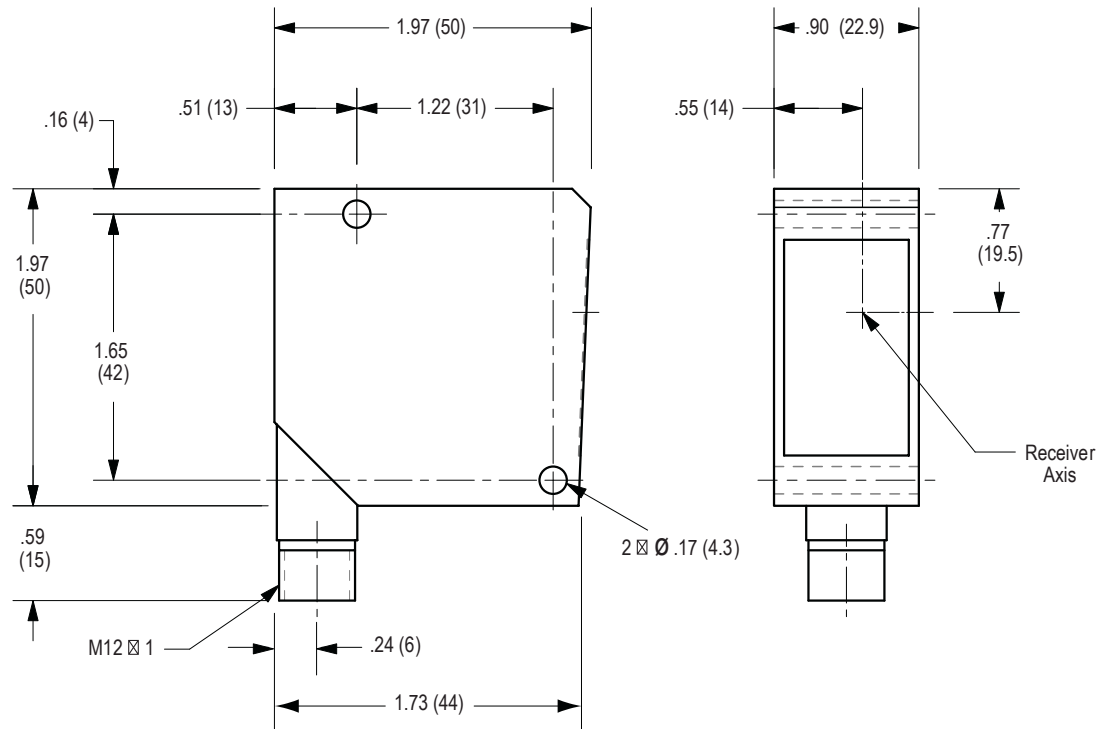
**Custom mounting frame for center guide application**



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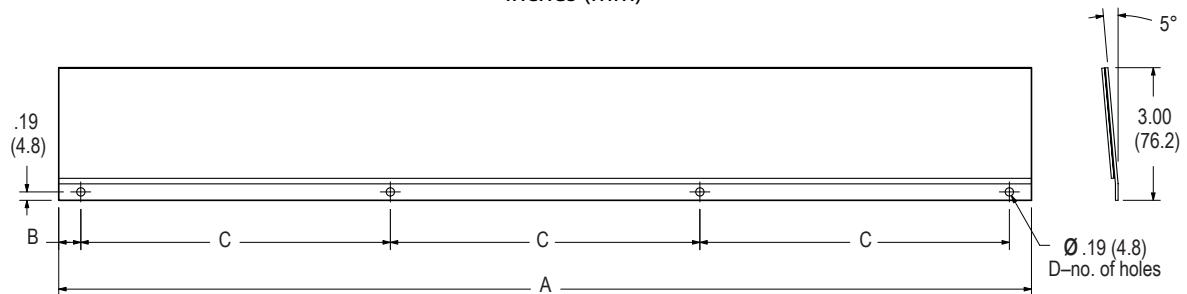
## DIMENSIONS

Inches (mm)



## REFLECTOR DIMENSIONS

Inches (mm)



Part Number	A	B	C	D
H3660-RFL-150	9.88 (250)	0.44 (11.2)	4.50 (114)	3
H3660-RFL-350	22.00 (559)	0.50 (12.7)	7.00 (178)	4
H3660-RFL-875	44.50 (1130)	0.50 (12.7)	7.25 (184)	7



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