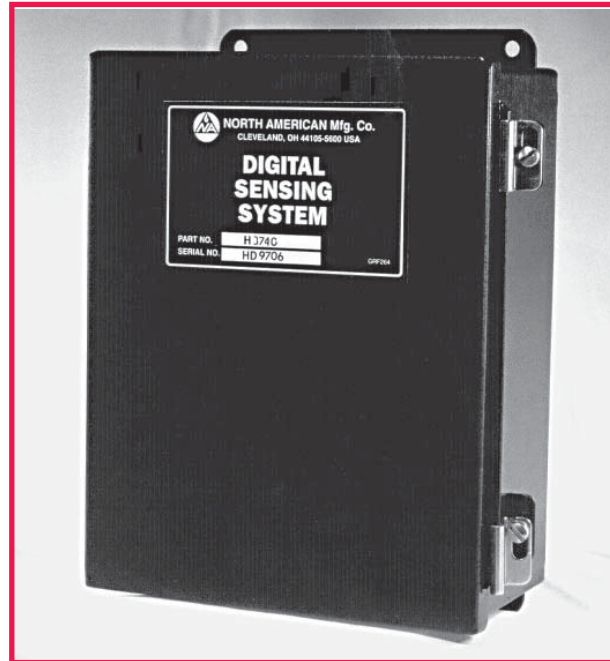


DSS

Digital Sensing System

H3740 Interface



- Edge or center-guide
- Width measurement
- Simple plug-in connections
- Fault detection and alarm output
- Rugged industrial enclosure

The H3740 interface processes signals from Fives North American's H3700 series digital detectors. By using the information derived from scanned LEDs, it determines the position of an edge and outputs an analog signal suitable for input into a control amplifier. It includes a fault condition alarm relay contact. If too many, or too few edges are detected, a relay contact is opened to activate an audible or visual alarm. The H3740 interface also features a selectable guide point for edge guide applications. An input from a remote pushbutton or relay contact sets the guide point at any location along the detector length.

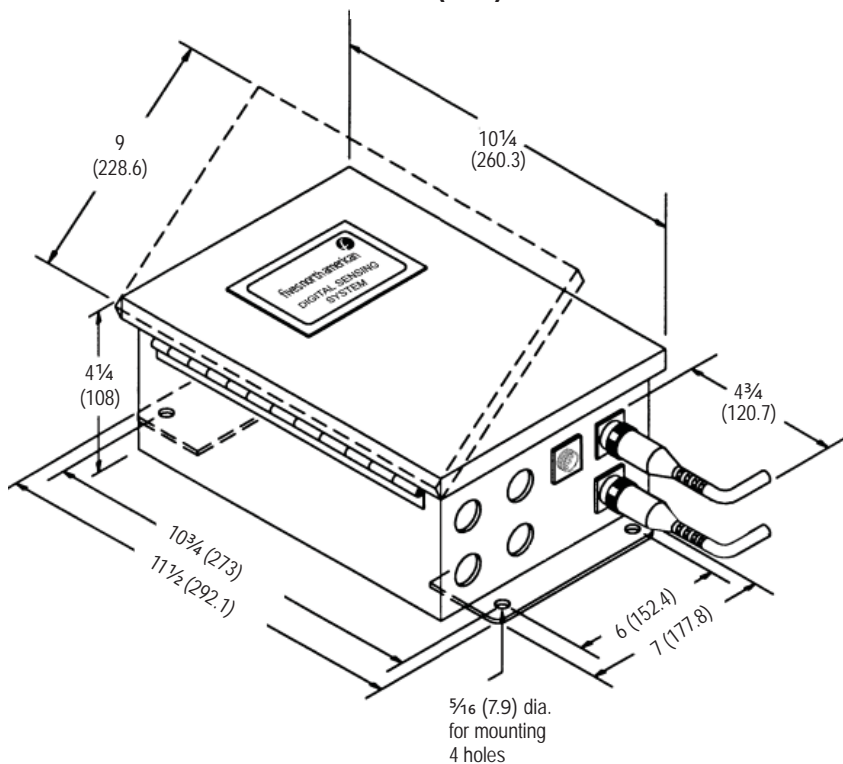
Setup and adjustments to the H3740 are simple. All connections plug directly into the interface. Connections are provided for emitter(s) input and controller output. Internal jumpers are used to select single emitter, dual emitter, edge guide or center-guide functions. Gain setting is switch selectable. Jumper options and switches are easy to change and clearly labeled.

The industrial enclosure is gasketed, dust-tight, and coated with chip resistant paint.

Analog width measurement is available using the analog outputs and applying external scaling and, in some instances, summing.

DIMENSIONS

inches (mm)



H3740 Interface available features vs. internal selections

NUMBER OF EMITTERS SELECTED		FUNCTIONS SELECTED			WIDTH MEASUREMENT
1	2	Edge 1 Guiding	Edge 2 Guiding	Center Guide	Analog Width measurement
X		X			X (Note 2)
X			X		X (Note 2)
X				X	X (Note 3)
	X	X	X	X	X (Note 1)

Note 1: Voltage Summing module X+A+B must be used.

Note 2: Use this combination to achieve single emitter analog width measurement or width deviation with 2 edges shown. Guiding is not simultaneously available. A minus B output is proportional to the number of LED's covered referenced to zero.

Note 3: Voltage summing/differencing module X-A-B must be used.

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 number: H3740-100-01

Dimensions: 10 1/4" H x 9" W x 4 1/4" D

Power source: 102-132 V / 240-264 at 2A internal switch selectable

Ambient temperature limits: 0-122 F (0-50 C)

Detector inputs: H3700 Series Emitters

Outputs: (2) 0-10 V dc nominal detector outputs (0-7.5 V dc with 30" models)
(1) ±10 V dc center-guiding output

Output update rate: equivalent to emitter scan rate

Fault contact: normally open relay contact powered on for non-fault condition (rated 1A at 24 V dc)

Mounting: surface-mount

Weight: 12 lb

Fives North American Combustion, Inc. Guiding Systems

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