The indicator HSI Type ID 2278 (PN. 27850-2) is an hermetically sealed, integrally lighted navigation instrument that presents a pictorial view of the aircraft's flight path as viewed from above. The unit provides, from remote inputs, the following information in an integrated display:

- **Aircraft Position.** The horizontal position is represented by a fixed aircraft symbol located in the center of the display in line with stationary upper and lower lubber lines.
- **Magnetic Heading.** An azimuth dial, indexed in degrees, indicates aircraft magnetic heading against the fixed upper lubber line. The dial is servo-driven.
- **Selected Heading.** A heading marker, located adjacent to and read against the outer edge of the azimuth dial, indicates the selected heading. The heading marker is manually positioned to the desired heading by means of the heading set knob.
- **Selected Course.** A course arrow, tip and tail, located adjacent to the inner edge of and read against the azimuth dial, indicates the selected course. The course arrow is manually positioned to the desired course by the course set knob.
- **Course Deviation.** The course deviation bar deflects rightward or leftward to indicate displacement of the aircraft to the right or to the left, respectively, of the selected course.
- **Ambiguity Indication.** The TO-FROM arrow represents the direction of the flight, respectively, toward or away from a transmitting station along the selected course.
G) **Bearing information.** Bearing pointers no. 1 and 2 (tips and tails) rotate about the outer perimeter of the azimuth dial. Bearing pointer no. 2 is driven by a servo mechanism in response to a remote synchro input. Bearing pointer no. 1, also servo-driven, responds to the bearing word included in the digital data input.

H) **Range information.** The range counter indicates the slant range distance to the selected transmitting station. The range of display is zero to 999.99 kilometers. Distance information is received as a binary word in the digital input data stream.

**OUTLINE DIMENSIONS**

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**PHYSICAL and ELECTRICAL CHARACTERISTICS.**

- **Primary power**: 115VAC, 400Hz, 15VA
- **Lighting power**: 5VAC, 400Hz, 5VA

**Physical dimensions:**
- Length (including Knobs and connector): 9.5 inches Max.
- Length (case only): 7.67 inches Max.
- Width: 5.0 inches
- Height: 4.25 inches
- Weight: 7 Lbs.

**Operating Ambient Temperature**: -54°C to +71°C

**Mounting hole spacing:**
- Horizontal: 4.50 inches
- Vertical: 3.75 inches