



INSTRUCTIONS

ETS101A

CURRENT SENSOR

Description

The ETS101A Current Sensor is used to sense DC current in the trip circuit and other control circuits in a substation and provide a contact closure for use by a DLM (GEK-100609).

Application

The Current Sensor is installed in series with the connection from a protective relays' trip output to the trip bus. The output contact of the Sensor is connected to the Digital Input terminals of a DLM. Refer to Figure 1. Note that the polarity of the connections on the inputs and the outputs does not matter. When the Sensor detects a current through the inputs exceeding 0.15 Amperes, it will close the output contact which will be detected by the DLM.

The sensor can be mounted directly to the terminal of a GE component relay or mounted using the mounting foot. Refer to the Construction and Mounting section.

These instructions do not purport to cover all details or variations in equipment nor provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company. To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.

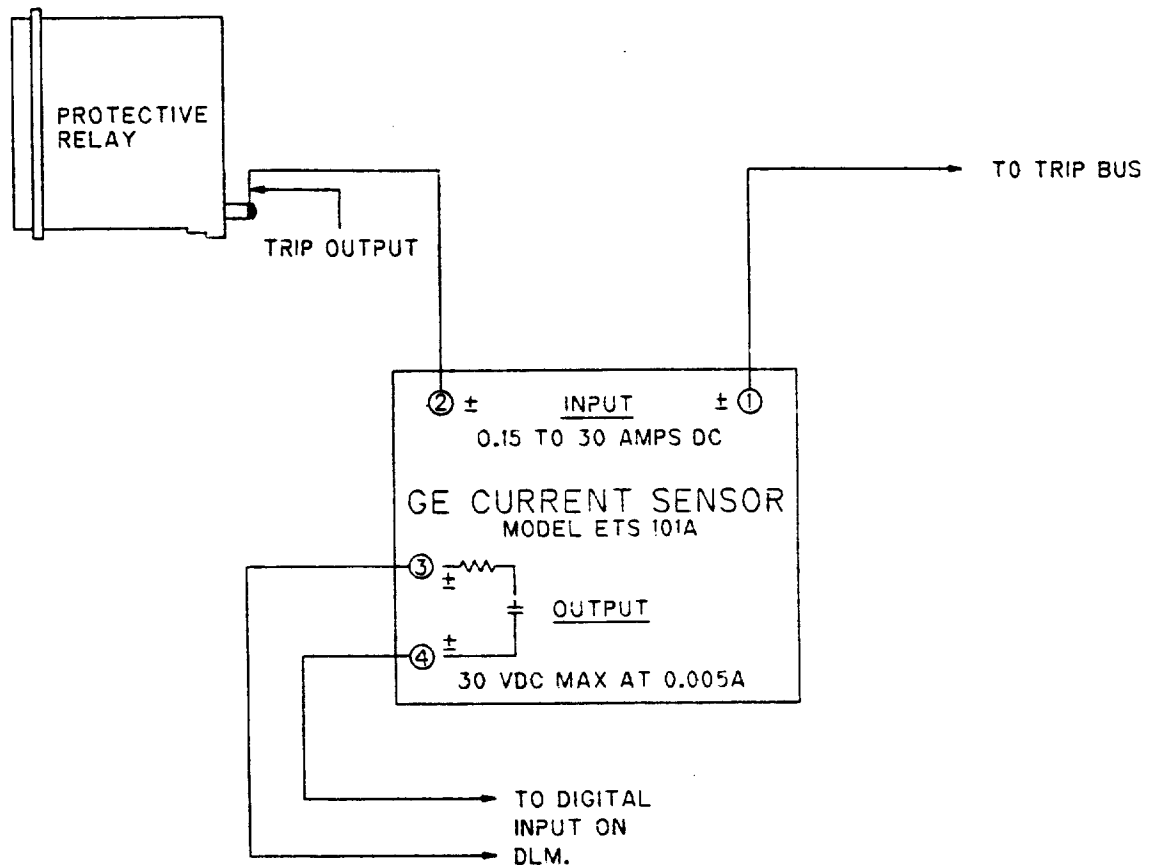


Figure 1 (0286A3570) Current Sensor Connections

Receiving, Handling, and Storage

Immediately upon receipt, the equipment should be unpacked and examined for any damage sustained in transit. If damage resulting from rough handling is evident, file a damage claim at once with the transportation company and promptly notify the nearest GE Sales Office.

If the equipment is not to be installed immediately, it should be stored indoors in a location that is dry and protected from dust, metallic chips, and severe atmospheric conditions.

Specifications

Input	
Rated Current	0.15 to 30 Amps DC (Trip Duty - Not Continuous)
Voltage Drop	0.5 V
Output Contact	
Rated Voltage	30 VDC at 0.005 Amps
Operate Time	200 μS MAX
Drop Out Time	200 μS MAX
Rating	10 VA (resistive)

Hi-Pot
2.5 kV
Meets ANSI C37.90

Temperature
Storage -40C to +80C
Operating -20C to +65C

Dimensions
Height 2.44 inches (62 millimeters)
Width 1.85 inches (47 millimeters)
Depth 0.89 inches (22.5 millimeters)

Weight 0.125 pounds (0.057 kilograms)

Construction and Mounting

The Current Sensor is mounted in a black injection molded plastic case with #6-32 screw terminals for connecting the external cables.

The Sensor is designed to be mounted directly to the output terminal of a GE component relay. Other mounting configurations can be accomplished using the mounting foot provided with the Sensor. Refer to Figure 2.

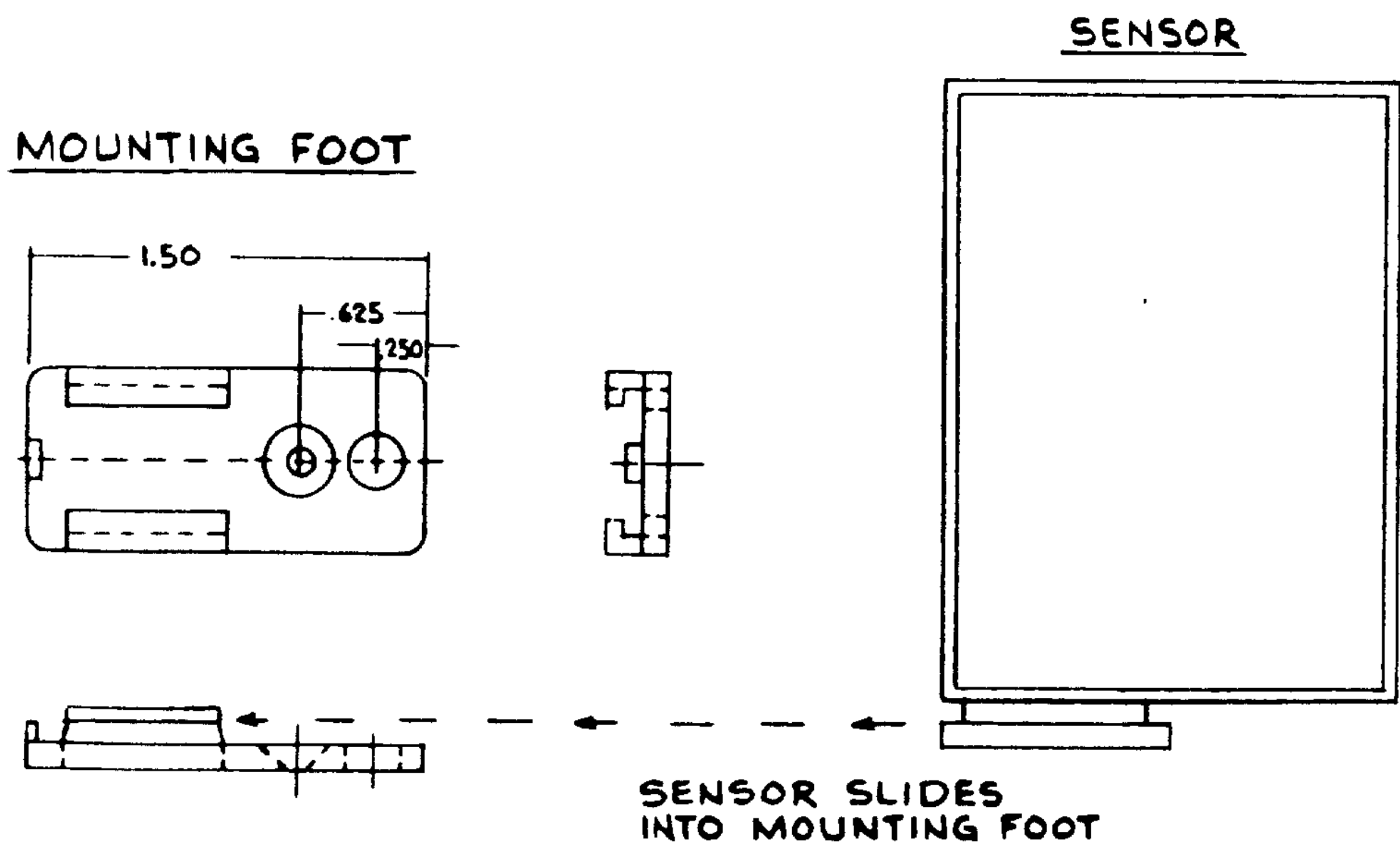
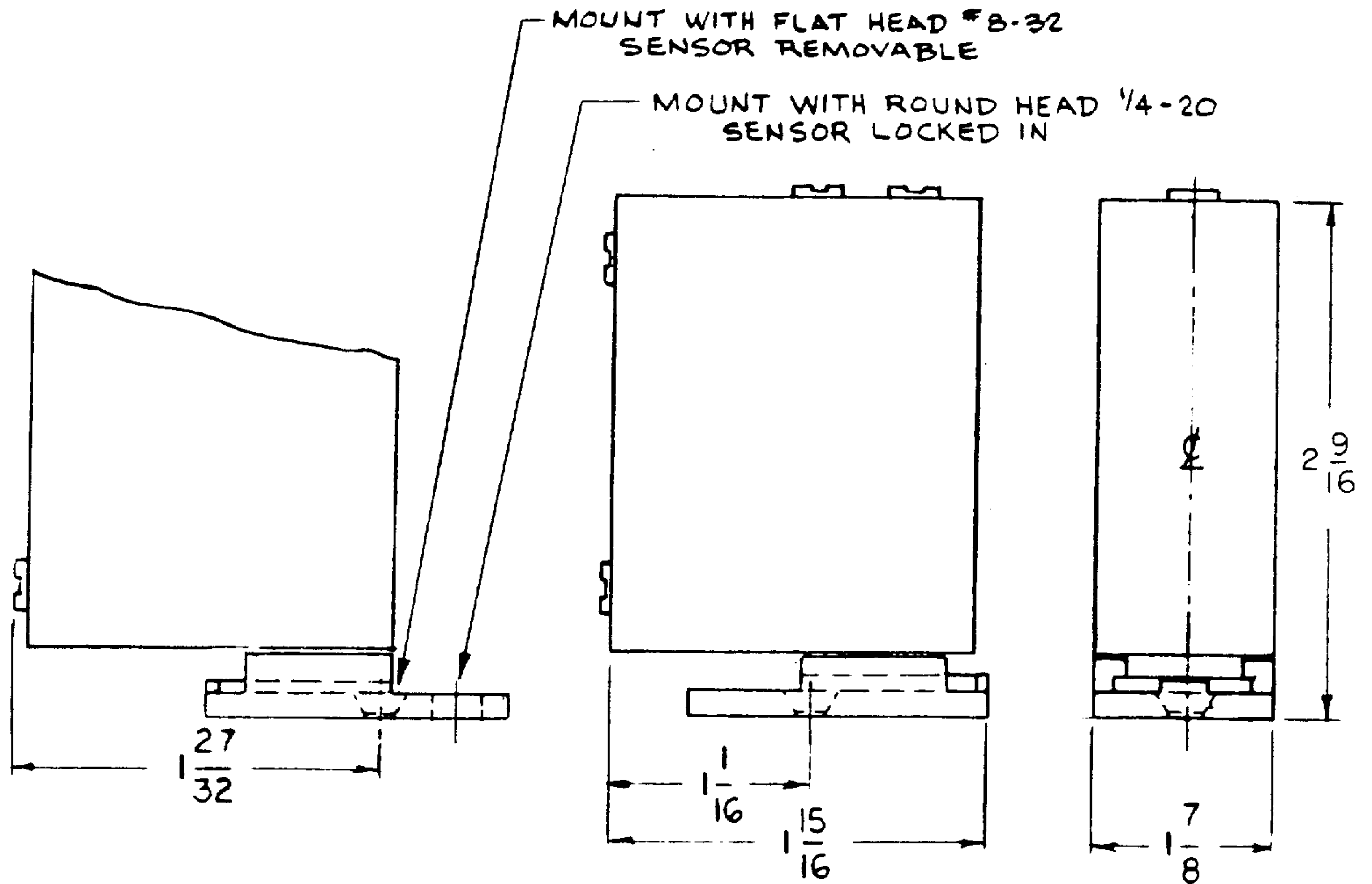


Figure 2 (0286A3574 [1]) Current Sensor Outline