

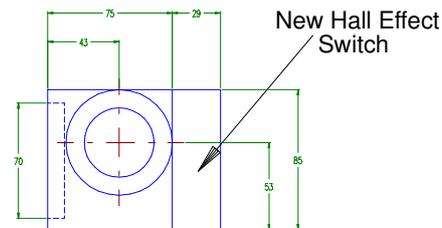
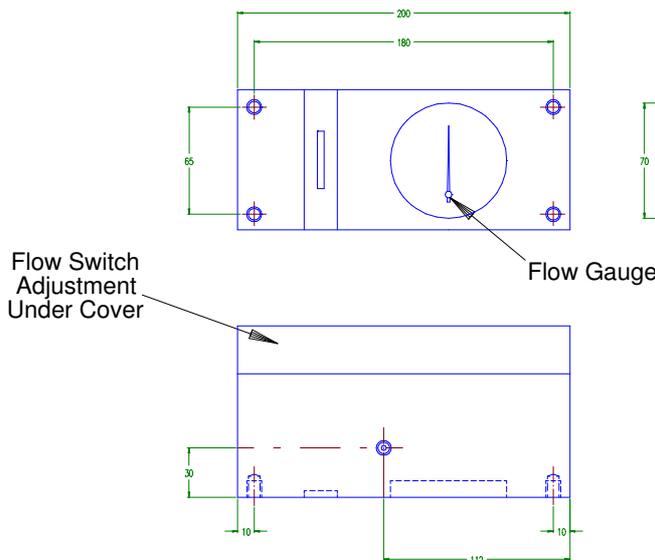
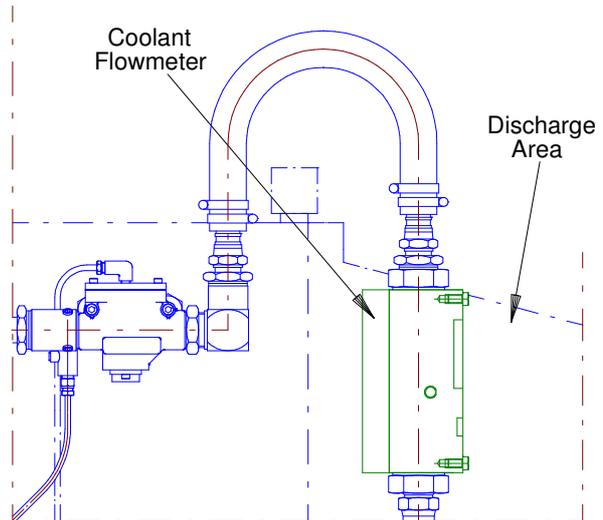
COOLANT FLOW SWITCHES

CATEGORY: Recommended

SUMMARY: CarnaudMetalbox Engineering now have available a new style of flowmeter and switch for the coolant assembly, offering greater reliability and an increased flow rate over the previously fitted reed type switches.

The new flowmeter incorporates larger 1 1/2" BSP ports enabling the increased flow rate through the meter. The new switch that is attached to the back of the flow meter uses a newly designed hall effect gauge that, unlike the old reed switches incorporates no moving parts allowing a more efficient and reliable operation.

This development is applicable to all 5000 Bodymakers offering greater reliability over all the previous reed type switches, and an increased flow rate over the smaller bore flow switches. It has been fitted as standard from serial number 172S.



New Flowmeter and Switch, model F1 1500 with 1 1/2" BSP Ports.

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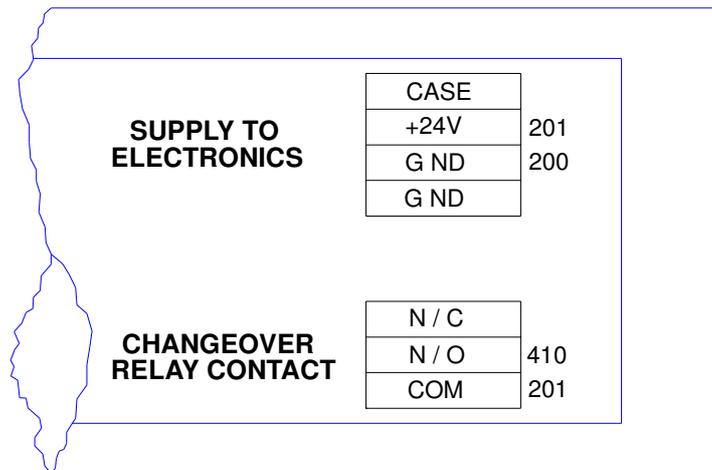
RETROFIT DETAILS

This new type of flow switch uses a Hall Effect sensor to detect the field from the magnet which moves in response to the liquid flow. There are two connector boxes inside the unit serving the following purposes:

- 1) A four way connector for power to the internal electronics,
- 2) A three way connector for the single pole changeover relay contact. This relay is energised when the flow level is above the present level.

There are no internal connections between the two connectors, so it is possible to use a different voltage to the PLC to indicate flow. Where a 24 volt input to the PLC is used, the '24v' terminal can be linked to the 'COM' terminal.

The 'CASE' connection is connected only to the enclosure itself. This can be connected to the machine ground if desired, but not to the GND terminal in the flow switch. The connection labelled 'GND' is for the common side of the 24 volt DC supply.



The Hall effect type switch is supplied in the easy to fit form of a retrofit package, enabling fitting time to be less than one hour in total.

For more information about the new hall effect type coolant flow switch, please contact one of the references at CarnaudMetalbox Engineering detailed below, quoting the technical bulletin number **TB5000-001**.

Note: A complete Library of Technical Bulletins is accessible on the Company Web Site.

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