FLSC-AMP-A
Preamplifier and Signal Conditioner for Magnetic Pick-ups

General Description
The FLSC-AMP-A Signal Conditioner will amplify low level signals from magnetic pick-up sensors, such as a turbine meter or paddlewheel sensor, to an amplified high level square wave pulse output proportional in amplitude to the power supply powering the module. This output will drive any OMEGA® flow ratemeter, counter, controller or pulse input data acquisition board.

Unpacking
Remove the Packing List and verify that you have received all equipment. If you have any questions about the shipment, please call the Customer Service Department.

When you receive the shipment, inspect the container and equipment for any signs of damage. Note any evidence of rough handling in transit. Immediately report any damage to the shipping agent.

NOTE
The carrier will not honor any claims unless all shipping material is saved for their examination.
After examining and removing contents, save packing material in the event reshipment is necessary.

The following items are supplied in the box:
- FLSC-AMP-A Signal Conditioner
- Operator’s Manual

Hookup (Refer to Figure 1)
For electrical connections, the terminal strip will accommodate up to a 14 gauge wire. 18-20 gauge is recommended.

Note: The signal lines from the magnetic pick-up should be shielded and kept less than ten feet and away from relays, solenoids, or other sources of electrical noise. The signal shield should be connected to power/common. The module output is recommended to make long distance runs.

Mounting
The FLSC-AMP-A module may be mounted using the screw holes provided in the molded housing. Double-sided tape, Velcro, or glue may also be used to secure the module in place. The FLSC-AMP-A module can also be snap track mounted using an adapter plate.
Specifications

Power: 8 to 24 Vdc
Input Frequency: 20 Hz to 20 KHz
Input Voltage: Sinusoidal 50mV p-p to 50V p-p
Input Impedance: 10 K ohms
Output: 100 mA sink max. with 4.7K internal pull-up resistor
Temperature Range: -10 to 60°C
Weight: 1 oz.

Dimensions

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

OMEGA will add the CE mark to every appropriate device upon certification.

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OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

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WARNING: This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device as it contains important information relating to safety and EMC.

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