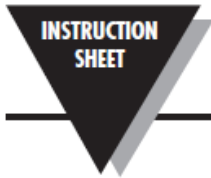




# FSW-130 Series Brass Body Flow Switch



**M-5169/1112**

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### Installation:

Units are calibrated in a vertical position, with lead wires up, but can be installed in any orientation. Install unit in piping system, using standard pipe fitting procedures. Hold inlet fitting with wrench at installation to prevent fitting torque accumulation. Be sure to keep thread sealing compound out of unit. Make sure that flow is in proper direction - marked "IN" and "OUT" on housing. See wiring diagrams for electrical connections.

CAUTION: See "Switch Ratings" before connecting power.

NOTE: Flow settings for FSW-130 series switches are normally calibrated using water @ +70°F on increasing flow.

### Maintenance:

Accumulation of foreign debris should periodically be removed from these switches. Occasional "wipedown" cleaning when excessive contamination is present is all that is normally required. To clean: Remove unit from system and disassemble as shown below. Clean all parts, reassemble and reinstall unit. Note: 50 micron filtration is recommended.

### Important Points:

Product must be maintained and installed in strict accordance with the National Electrical Code and Omega product catalog and instruction bulletin. Failure to observe this warning could result in serious injuries or damages.

An appropriate explosion-proof enclosure or intrinsically safe interface device must be used for hazardous area applications involving such things as (but not limited to) ignitable mixtures, combustible dust and flammable materials.

\*\*\* Warning: To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.

Pressure and temperature limitations shown on individual catalog pages and drawings for the specified flow switches must not be exceeded. These pressures and temperatures take into consideration possible system surge pressures/temperatures and their frequencies.

Selection of materials for compatibility with the media is critical to the life and operation of OMEGA flow switches. Take care in the proper selection of materials of construction; particularly wetted materials.

Life expectancy of switch contacts varies with applications.

Ambient temperature changes do affect switch set points, since the specific gravity of a liquid can vary with temperature.

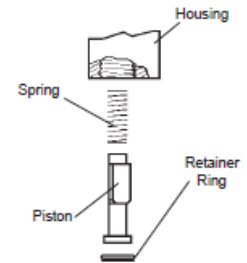
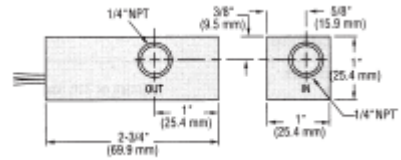
Flow switches have been designed to resist shock and vibration; however, shock and vibration should be minimized.

Liquid media containing particulate and/or debris should be filtered to ensure proper operation of OMEGA products.

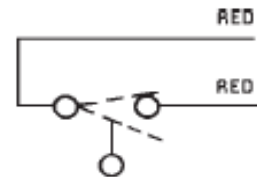
Electrical entries and mounting points may require liquid/vapor sealing if located in an enclosed tank.

Flow switches must not be field repaired.

Physical damage sustained by the product may render it unserviceable.



Wiring Diagram



Switch Ratings  
Max. Resistive Load

VA	Volts	Amps AC	Amps DC
20	0-30	.4	.3
	120	.17	.13
	240	.08	.06

Specifications	FSW-130
Wetted Materials	
Housing	Brass
Piston	N/A
Spring	316 SS
Operating Pressure	1000 psig, Max
Operating Temperature	-20°F to +200°F
Set Point Accuracy	±15%
Set Point Differential	20% Max.
Switch	SPST, 20 VA, N.O.
Inlet/Outlet Ports	1/4" NPT
Electrical Termination	No. 18 AWG, 24" L., PVC Lead Wires

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**WARNING:** These products are not designed for use in, and should not be used for, human applications.

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2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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