SJE Rhombus® narrow-angle control switches accurately monitor liquid levels in water and sewage applications. These switches are designed to activate pump control panels and alarms.

**SJE SIGNALMASTER®**
- Mechanically-activated.
- Control differential of 1.5 inches above or below horizontal.
- Not sensitive to rotation.
- Mounting options: mounting clamp or cable weight.

**SJE SIGNALMASTER® SPDT**
- Mechanically-activated.
- Control differential of 1.5 inches above or below horizontal.
- Not sensitive to rotation.
- Mounting options: mounting clamp or cable weight.

**SENSOR FLOAT®**
- Mercury-activated.
- Suitable for use with an intrinsically safe circuit.**
- Not sensitive to rotation.
- Mounting options: mounting clamp, internal or cable weight.

**SENSOR FLOAT® MINI**
- Mercury-activated.
- Narrow angle float switch in a small float.
- Suitable for use with an intrinsically safe circuit.**
- Not sensitive to rotation.
- Mounting options: mounting clamp or cable weight.

**Contact SJE Rhombus for specific intrinsically safe applications.**

**PREVENTATIVE MAINTENANCE**
- Periodically inspect the product. Check that the cable has not become worn or that the housing has not been damaged so as to impair the protection of the product. Replace the product immediately if any damage is found or suspected.
- Periodically check to see that the float is free to move and operate the switch.
- Use only SJE Rhombus® replacement parts.
- The Sensor Float® and Sensor Float® Mini control switches contain mercury and MUST be recycled or disposed of according to local, state, and federal codes.

**SJE Rhombus® FIVE-YEAR LIMITED WARRANTY**

Five-Year Limited Warranty. For complete terms and conditions, please visit www.sjerhombus.com.

**NOTICE!**
Products returned must be cleaned, sanitized, or decontaminated as necessary prior to shipment to ensure that employees will not be exposed to health hazards in handling said material. All applicable laws and regulations shall apply.
### MOUNTING THE SWITCH

**WARNING**: Do not install switch in direct line of incoming liquid.

1. Place the cord into the clamp as shown in Figure C.
2. Locate clamp at desired activation level and secure the clamp to the discharge pipe as shown in Figures A and B. **Note**: Do not install cord under hose clamp.
3. Tighten the hose clamp using screwdriver. Over tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
4. Wire switch as shown in Figure D.
5. Check installation. Allow system to cycle to insure proper operation.

**Note**: All hose clamp components are made of 18-8 stainless steel material. See your SJE Rhombus® supplier for replacements.

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### CABLE WEIGHT

1. Determine desired activation level.
2. Suspend switch and cable weight at desired activation level as shown in Figure E.
3. Wire switch as shown in Figure D.
4. Check installation. Allow system to cycle to insure proper operation.

To adjust cable weight tether length:
1. Release clip.
2. Adjust cable weight to desired position.
3. Lay switch cable in weight channel.
4. Align clip with weight channel and slide towards switch cable as shown in Figure E.
5. Snap clip snugly up to cable, moving clip to tightest possible position.

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### INTERNAL WEIGHT

**SENSOR FLOAT® CONTROL SWITCH ONLY**

1. Determine desired activation level as shown in Figures A and B.
2. Suspend switch 7 inches (18 cm) below desired activation level as shown in Figure F. Switch remains partially submerged during the "on" tipping action. Switch can be totally submerged and still continue to operate properly.
3. Wire switch as shown in Figure D.
4. Check installation. Allow system to cycle to insure proper operation.

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### Figure C

![Figure C](image)

**3.5 inch (9 cm) minimum tether length**

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### Figure E

![Figure E](image)

**3.5 inch (9 cm) tether length**

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### Figure F

![Figure F](image)

**7 inches (18 cm) activation level**

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### Technical Support

- Technical Support: +1 800-746-6287
- techsupport@sjerhombus.com
- www.sjerhombus.com

**For detailed specifications on this product, or for the complete line of SJE Rhombus® panel, alarm, and switch products, visit our web-site at www.sjerhombus.com.**