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smartswitch BSW-1000 Single Bilge Controller Instruction Manual

Contents

smartswitch BSW-1000 Single Bilge Controller

Specifications:

- Product Name: BSW-1000 Single Bilge Controller
- Manufacturer: Smartswitch
- Recommended Installation: By a suitably qualified Marine or Auto-Electrician

Product Usage Instructions

Operation of BSW-1000 Bilge Pump Switch:
Note: The High Float switch does not need to be fitted for the system to operate.

Operation Without Auto/Manual Switch Fitted:
If the low float switch turns on and the programmable delay ON time has been reached (factory setting is 5 sec's), the pump will turn ON. When the low float switch turns off, the pump will stay ON for the programmable delay OFF time (factory setting is 5 sec's).

Programming the Delay ON & OFF Time:

1. Place two jumper wires, one from 'Common' to 'Auto' and one from 'Common' to 'Manual'. The LED between the Pump connections will blink three times, indicating the unit is now in Program mode.
2. For the ON delay time setting, activate the Low float switch. The Pump LED will blink every second. Each blink indicates one second in delay time. Deactivate the float switch when the require time is reached.
3. For OFF delay time setting, activate the High float switch. The Pump LED will blink every second. Each blink indicates one second in delay time. Deactivate the float switch when the required time is reached.
4. Remove the jumper wires installed in step 1.

Important: If fitting the AM-100 Auto/Manual/Off switch, follow specific instructions for connection as per the provided diagram. If not using the switch, ensure the jumper is fitted between the terminals 'Auto' and 'Common'.

Note on BSW-1000 Alarm: The ALARM terminal on the BSW-1000 can sink up to 200mA. For any alarm device requiring higher current draw, use an interposing relay. When using the AM-100 Auto/Manual Station, an alarm light and audible buzzer are included; additional alarm devices can be connected with caution.

FAQ

Q: Do I need to program the BSW-1000 if I am satisfied with the factory settings?
A: No, programming is not necessary if you are satisfied with the factory settings. The product will operate with the default 5-second delay ON & OFF time.

BSW-1000 Single Bilge Controller

INTRODUCTION

Thank you for purchasing the BSW-1000 Bilge Pump Switch. Smartswitch is proud of the quality and innovation that goes into all of our industry leading products. Our Research and Development team has spent considerable time and effort designing a quality range of monitors and controllers that allow our customers to keep their eye on all the important onboard operations – accurately, reliably and simply. It's this kind of thinking that makes Smartswitch the provider of the worlds most advanced Marine Monitoring and Control Technologies. Smartswitch recommends installation of this product be carried out by a suitably qualified Marine or Auto-Electrician. This document contains information to ensure accuracy and safety in the operation of your vessel's

equipment. For further information or queries please contact your Smartswitch distributor or visit www.smartswitch.co.nz

OPERATION: BSW-1000 BILGE PUMP SWITCH

NOTE: The High Float switch DOES NOT need to be fitted for the system to operate.

OPERATION WITHOUT AUTO/MANUAL SWITCH FITTED:
If the low float switch turns on and the programmable delay ON time has been reached (factory setting is 5 sec's) the pump will turn ON. When the low float switch turns off the pump will stay ON for the programmable delay OFF time (factory setting is 5 sec's).

OPERATION WITH AUTO/MANUAL SWITCH FITTED (Important – See programming note 5 below):

- Auto / Manual switch in the AUTO position: If the low float switch turns on and the programmable delay ON time has been reached the pump will turn ON. When the low float switch turns off the pump will stay ON for the programmable delay OFF time.
- Auto / Manual switch in the MANUAL position: The pump will turn ON and stay ON until the switch is placed in either the Auto or the Off position.
- Auto / Manual switch in the OFF position: The pump will NOT turn ON even if both the low and high floats switches are activated.
- ALARM – Audible and Light: The A/M station alarm light and audible signal will turn ON if the pump has been ON for more than one minute or will turn ON and OFF (flashing) if the high float switch is activated. Pressing the "Alarm/Mute" button will silence the audible alarm, however, the light will stay on (or flash if high float alarm) until the condition is resolved. (Note that the auxiliary alarm terminal on the BSW control module will follow the same protocol)
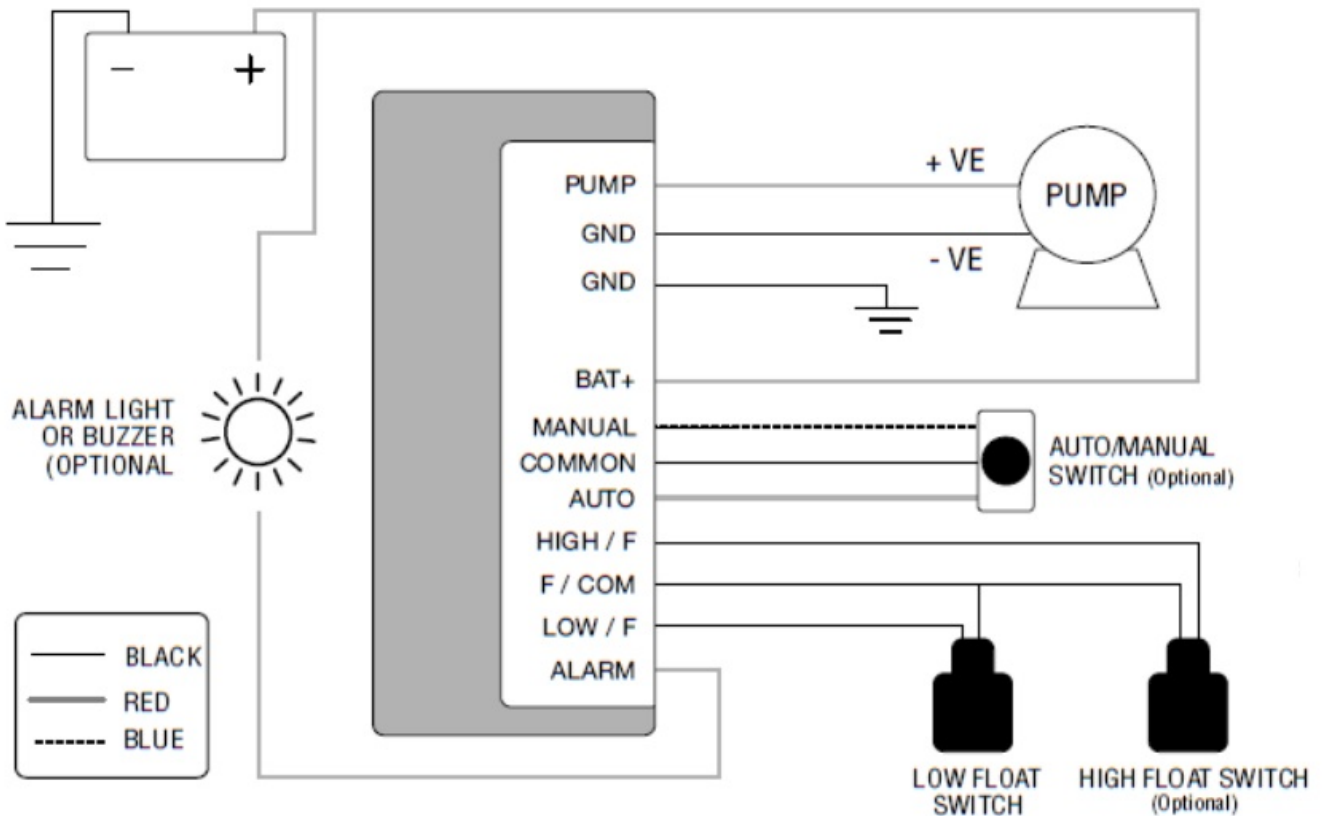
PROGRAMMING THE DELAY ON & OFF TIME:
This product is factory set for a 5 second delay ON & OFF time and unless a different time is required the product does NOT require programming, but can be changed as follows:

1. Place two jumper wires one from 'Common' to 'Auto' and one from 'Common' to 'Manual', the LED between the Pump connections will blink three times indicating the unit is now in Program mode.
2. For the ON delay time setting, activate the Low float switch. The Pump LED will blink every second. Each blink indicates one second in delay time. When the required time is reached deactivate the float switch. (Tip! You can activate the float switch by turning it upside down or simply place a jumper between "low float" and "common" terminals). You have now set the Delay ON time. (max time = 3 minutes)
3. For OFF delay time setting, activate the High float switch. The Pump LED will blink every second. Each blink indicates one second in delay time. When the required time is reached deactivate the float switch. (Tip! You can activate the float switch by turning it upside down or simply place a jumper between "high float" and "common" terminals). You have now set the Delay OFF time. (max time = 3 minutes)
4. Remove the jumper wires installed in step 1.
5. If fitting the AM-100 Auto/Manual/Off switch remove and discard the jumper between the terminals 'Auto' and 'Common' and connect the switch as per the diagram below. If NOT, ensure the jumper is fitted between the terminals 'Auto' and 'Common'.

Important note on the BSW-1000 alarm.

Note that the ALARM terminal on the BSW-1000 will sink up to 200ma – sufficient to drive an LED alarm light or low power audible alarm device. For any alarm device which requires higher current draw than 200 ma, use an interposing relay.

If using the AM-100 Auto/Manual Station, an alarm light and audible buzzer is included on the station, however, if desired, an auxiliary alarm device may be connected to the BSW-1000
controller with the above caution.

PUMP
GND
GND

BAT+
MANUAL
COMMON
AUTO
HIGH / F
F / COM
LOW / F
ALARM

+ VE
PUMP
- VE

ALARM LIGHT
OR BUZZER
(OPTIONAL

AUTO/MANUAL
SWITCH (Optional)

BLACK
RED
BLUE

LOW FLOAT
SWITCH

HIGH FLOAT SWITCH
(Optional)

This device should be fuse protected (40 Amp maximum) and mounted in a dry area.

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Email: **sales@smartswitch.co.nz** Web: **www.smartswitch.co.nz**

Documents / Resources

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BSW-1000 Single Bilge Controller, BSW-1000, Single Bilge Controller, Bilge Controller

References

- 🌐 **Boat Gauges & Marine Monitoring Instruments**
- 🌐 **EZY SWITCH - SMS Remote Control for Equipment**
- **User Manual**