



Instructions for use

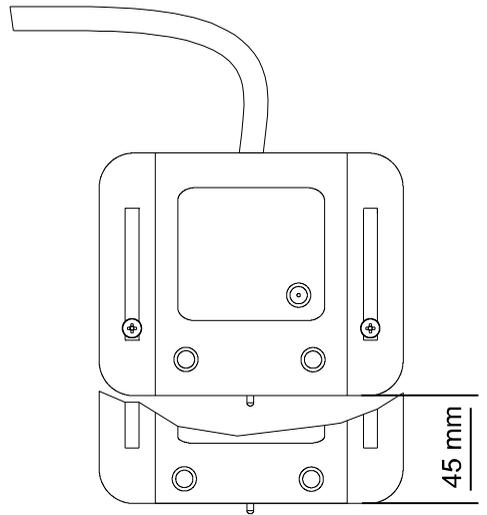
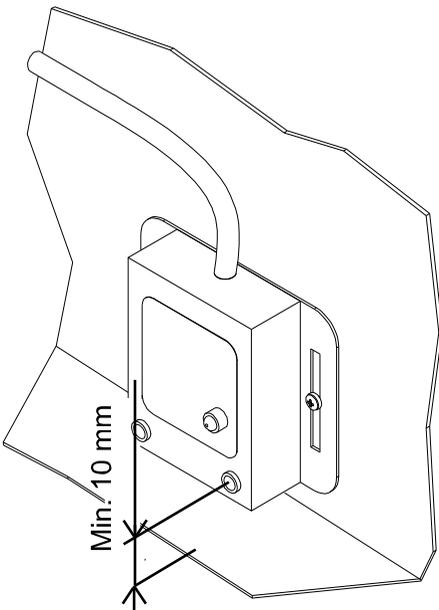
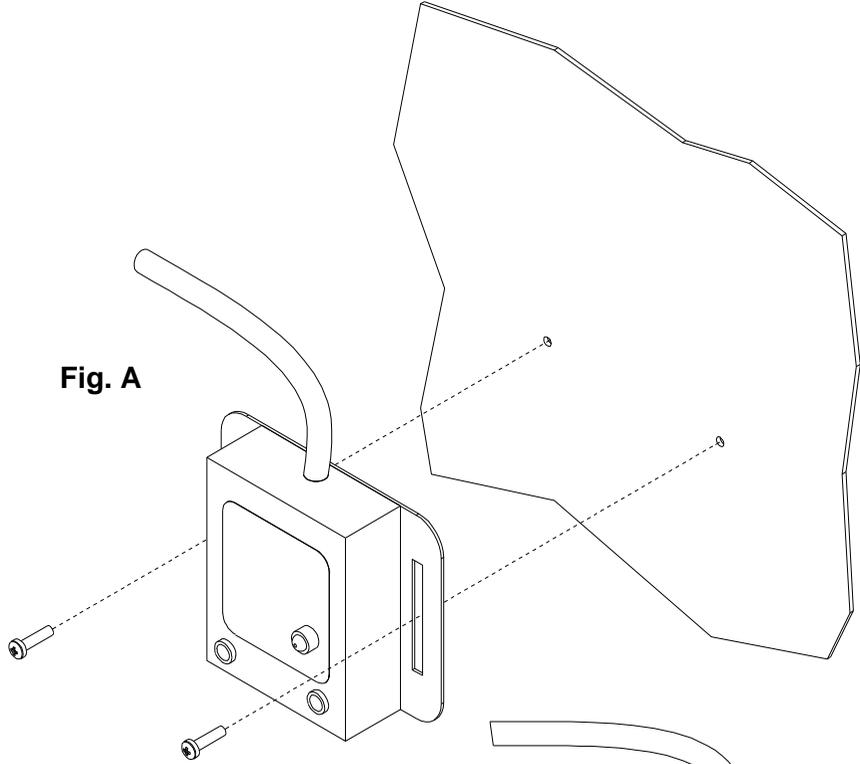


BILGE PUMP SWITCH



BM-127421

Rev. 01 – 2026



Description

BM-127421 is a switch with two stainless steel sensors, which detects the presence of water in the boat bilge and controls the drain pump.

Technical data

Switch power supply	from 10 to 30 V DC
Pump power supply	12 – 24 V DC
Continuous load	15 A
Maximum load	20 A for 15 minutes
Protection rating of enclosure	IP 68
Maximum operation temperature	55°C (131 F)
Conductivity of drainage liquid	Higher than 80 µS/cm
Size (mm)	80 x 77 x 21
Connection cable	3 x 1.5 mm ²
Length of cable supplied	750 mm
Weight (g)	230*
Remote control panel (website)	optional

* including cable



Warning

CONNECT ONLY TO A DC POWER SUPPLY.

General notes

The BM-127421 must be used solely for the purposes described herein. Any other use is to be considered improper.

Any tampering with the switch will result in immediate voiding of the warranty.

Components

The package contains:

- switch complete with cable and 2 fastening screws;
- instructions for use.

Installation

Installing the switch

- The switch must be installed **in an upright** position with sensors in frontal position on a wall inside the bilge compartment using the screws supplied – **see Fig. A.**
- The height of 45 mm (1" 3/4) of the switch can be adjusted through the two slots of the fastening screws – **see Fig. B.**
- **There must be a clearance of at least 10 mm (~3/8")** between the minimum suction level of the pump and the two sensors of the switch – **see Fig. C.**

Connections

- For instructions on making electrical connections, see the attached diagram. **Install a safety fuse suitable for the pump motor power rating.**
- The switch cable connection must be protected from contact with water. Provide a branch box (protection rating IP56) to be positioned at a high level with respect to the switch.
- The power cables must have a cross section of at least 1.5 mm².



Warning

ALWAYS DISCONNECT THE BATTERY PRIOR TO INSTALLATION.

REVERSING THE BATTERY POLES MAY CAUSE IRREVERSIBLE DAMAGE TO THE SWITCH.

Operation

After connection to the battery the green LED lights up and the switch is operative. When the water level inside the hull reaches the two sensors of the switch, the LED goes off. If sensors remain in contact with water for at least 12 seconds consecutively, the pump starts up.

The LED will light up again when the water level goes below the sensors; the pump will stop with a 30 seconds delay after the LED goes on, to permit the complete drainage of bilge.

The switch is provided with overheating protection, with intervention approximately at 55°: the red LED turns on and the pump stops. Restart is automatic when switch temperature is approximately less than 35°.



Warning

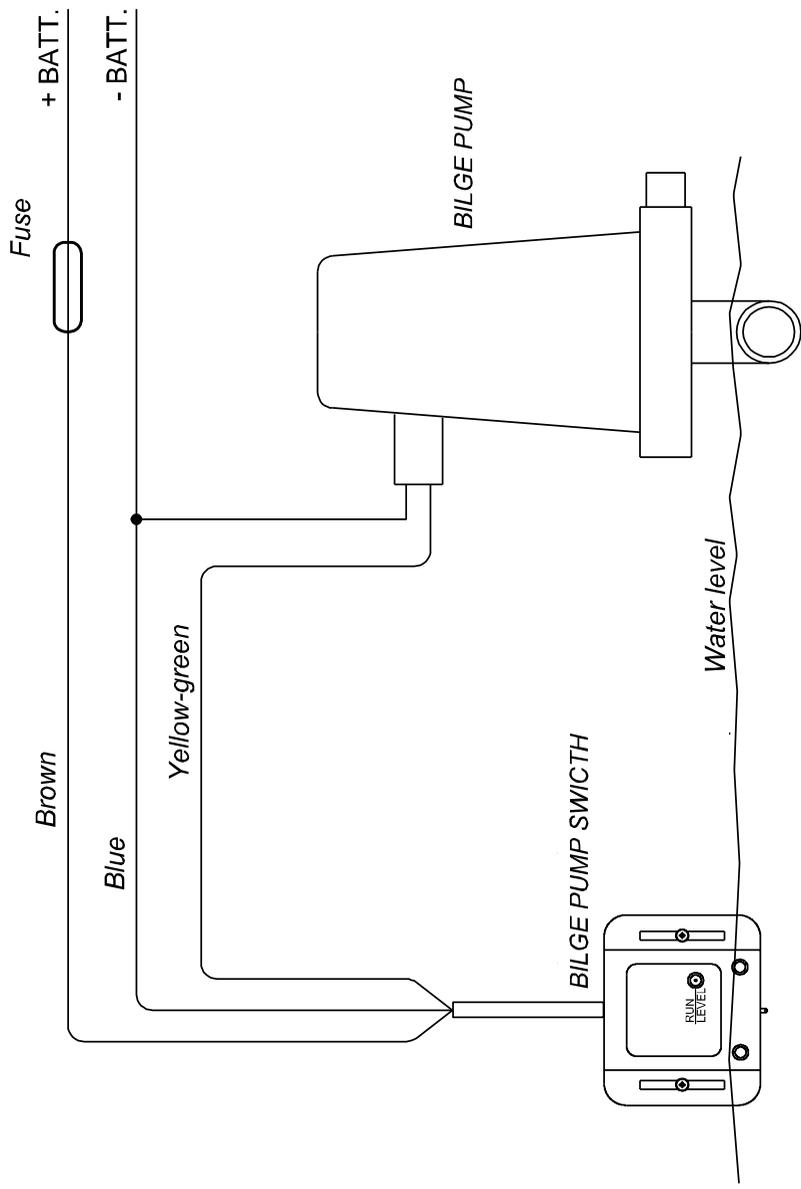
TO KEEP THE SWITCH IN GOOD OPERATING CONDITIONS THE TWO SENSORS MUST BE CLEANED PERIODICALLY.

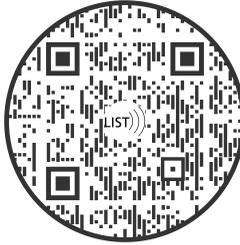


Note

THE SWITCH DOES NOT DETECT THE PRESENCE OF OIL, DIESEL OIL OR OTHER LOW CONDUCTIVITY LIQUIDS.

ELECTRICAL DRAWING





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