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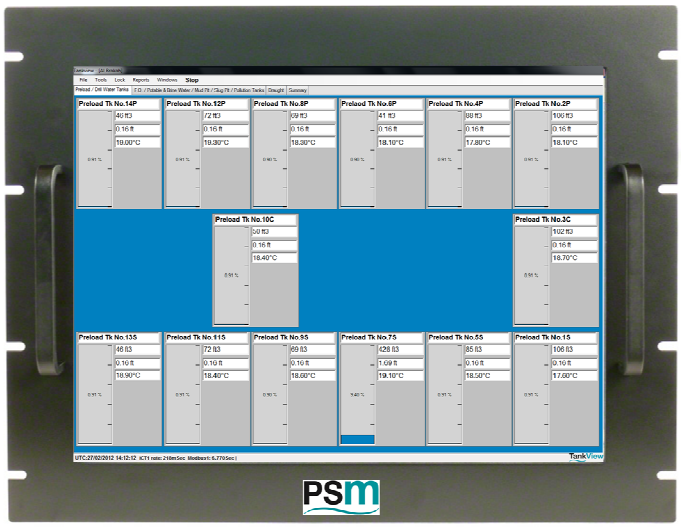
BilgeSafe: Ship Flood Detection System for Watertight Spaces



KEY FEATURES

- Detects and alarms water ingress in bilge, void and watertight spaces on ships and offshore installations
- Meets the requirements of **SOLAS Regulation II-1/22-1** applicable to passenger ships
- Simple to install and operate with only one switch required per watertight space
- Switches can be easily tested without external tooling or services required
- Switches interface back to centrally mounted display and control panel
- Constant self-checking of switches confirms system operational health
- Optional Interface to ship's data recording system

Part of the ComplianceSystems product group

PSM Instrumentation Ltd, Unit 3 Burrell Road, Haywards Heath, West Sussex, RH16 1TW. UK

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PSM is a Scanjet Group Company

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BilgeSafe Ship Flood Detection System

PSM has designed the BilgeSafe passenger ship flood detection system to meet **SOLAS regulation II-1/22-1**, effective July 2010, which requires that any passenger ships carrying more than 36 persons be fitted with a flood detection system for watertight spaces below the bulkhead deck.

Passenger Safety

Ensuring passenger safety, PSM's BilgeSafe flood detection system features our reliable and robust bilge level switch the **BLS 9200,** a proven bilge alarm that is in service in many thousands of applications, in conjunction with a graphical display unit and software from the **TankView** product line

With stainless steel construction and an integral test handle, BilgeSafe switch is fully submersible to IP68. In accordance with the **SOLAS II-1/22-1 requirement**, the flood detection system is configured to be failsafe. Loss of power or communications to any detector, or cable break/ switch failure will result in an immediate bilge alarm warning. The flood detection system is powered from the ship's primary supply and 24V DC emergency back up as required by the regulation.

Applicable to other classes and types of vessels as well as offshore platforms

Using the basic components, the system is scalable for multiple detection points, and can provide a vital marine safety function on all ships and offshore platforms.

System Components

BLS9200 level switch for liquid detection in bilges and sumps

A compact and rugged bilge well alarm switch for marine use on vessels of all sizes.

Materials of construction are stainless steel and EPR cable that are resistant to all common marine fluids such as sea water, fuel oil and hydraulic fluid.

Siting and mounting is simple requiring only a two bolt fixing and the self draining fully shrouded design prevents interference of operation from obstructions or floating debris.

The integral manual checking device conforms to class rules without complicating installation.

The switch is tested and approved for marine duty by Lloyds Register (LR), Bureau Veritas (BV) and Det Norske Veritas (DNV).

Field mounted terminal enclosures are also available for cable marshalling.

TankView display and alarm software

TankView is a simple to operate graphic display software package running within the Windows environment. It provides the user with a clear picture of the current status of all inputs for the spaces being monitored

In addition to the integral audible alarm, switch outputs can interface to other shipboard monitoring systems or remote annunciators.

A wide variety of desk and panel PC's can be supplied as part of the system.

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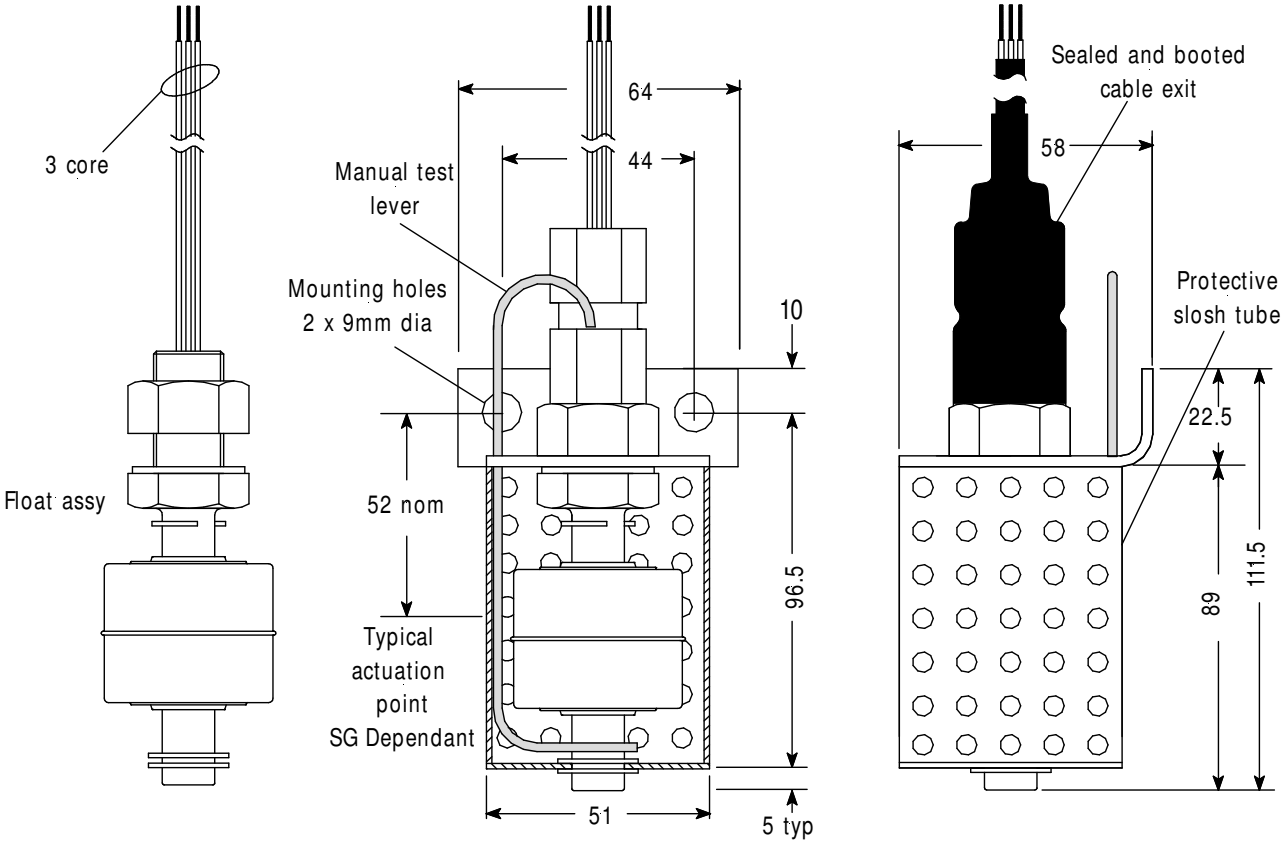
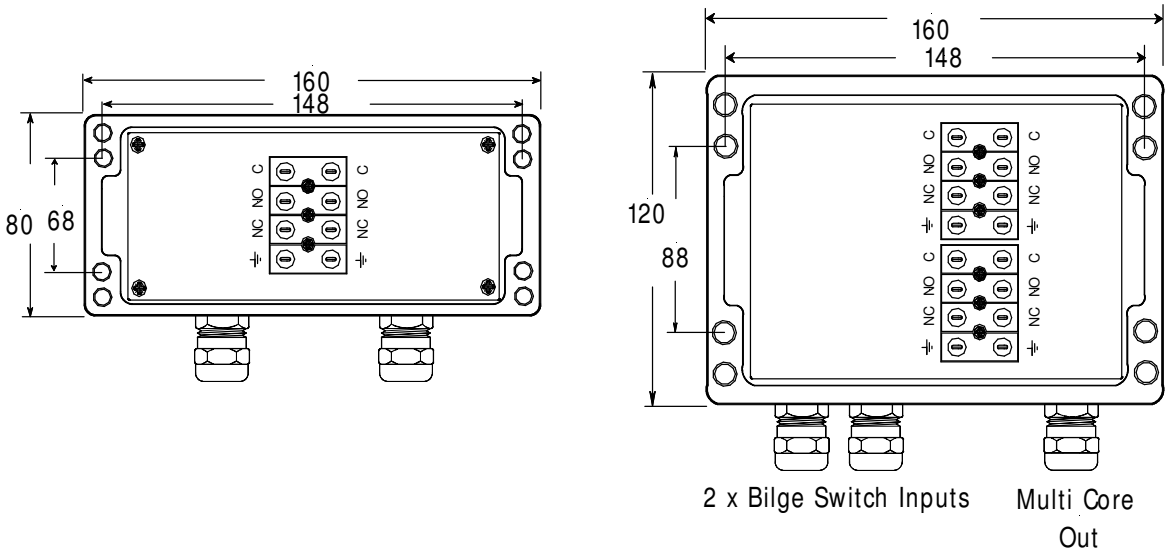
GA drawing BLS 9200 switch



Marshalling enclosure for BLS 9200 switch



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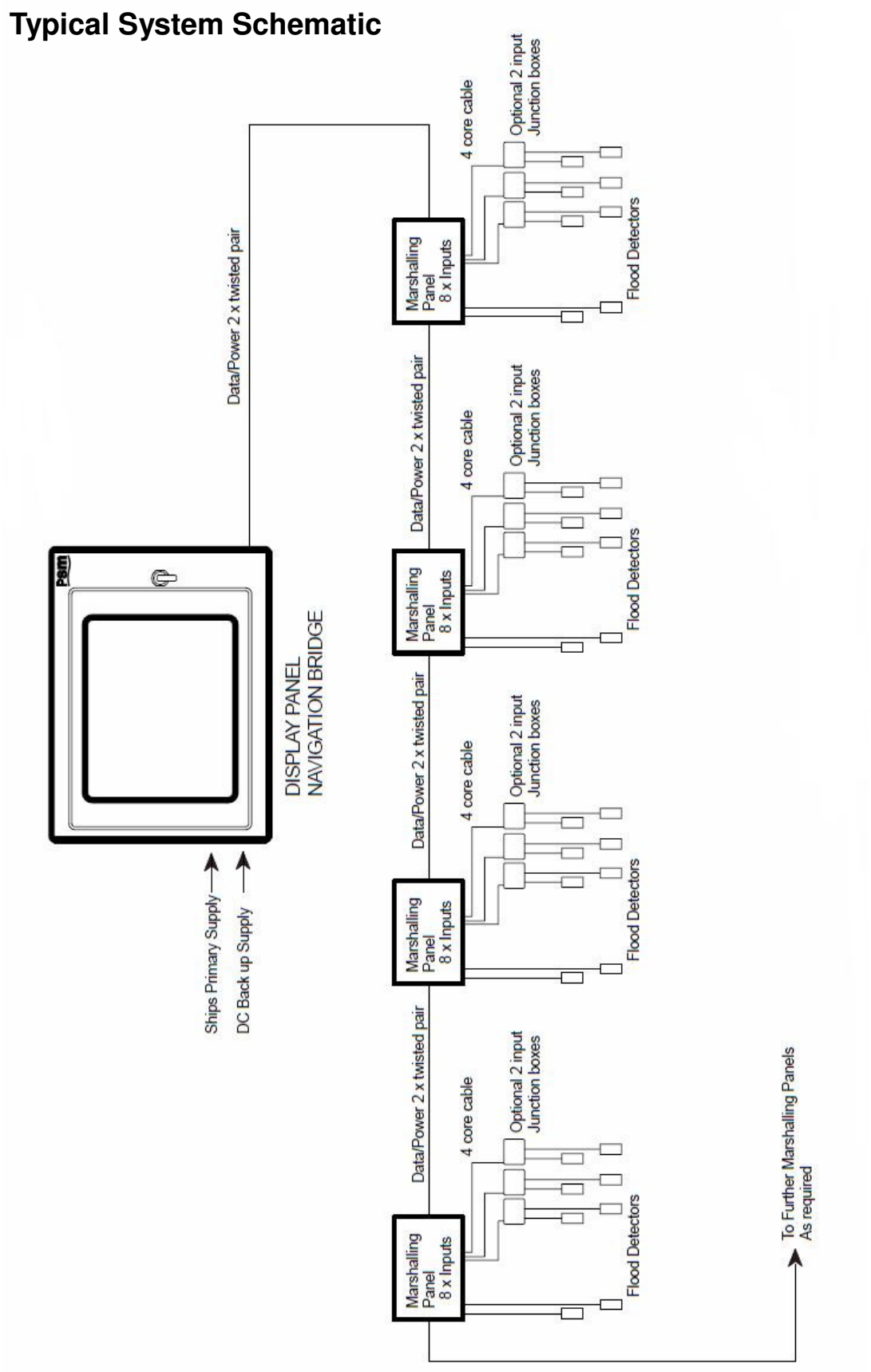
Typical System Schematic



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