

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

- UK-Type Examination Certificate Number:** ITS24UKEX0813X **Issue 0**
- Product:** Bilge flood detection switch BLS 9200
- Manufacturer:** PSM Instrumentation Ltd.
- Address:** Unit 3, Burrell Road, Haywards Heath, West Sussex, RH16 1TW, United Kingdom
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 105585850LHD-001 dated 24th September 2024.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-11:2012 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:



II 1G Ex ia IIC T5 Ga
-10°C ≤ Ta ≤ +90°C

Certification Officer: _____ **Date:** 4th October 2024
M Newman

SCHEDULE:

UK-Type Examination Certificate Number: ITS24UKEX0813X Issue 0

11. Description of Product or Protective System

The Bilge Switch Model BLS 9200 is designed to be installed in ships bilges and tanks, industrial sumps and tanks where it would be bolted in situ at the required alarm level. This switch is corrosion resistant stainless steel fully submersible construction with a hermetically sealed SPDT reed switch potted in epoxy. This switch is also designed with a manual lift test mechanism to be used to check switch operation.

The BLS 9200 is manufactured with the requested cable length permanently bonded to the body. The maximum cable length is 20 meters.

The maximum input parameters are as follows:

$U_i = 28V$ d.c.

$I_i = 150mA$

$P_i = 0.8W$

$C_i = 2.5nF$ (for 20m cable)

$L_i = 7.32\mu H$ (for 20m cable).

12. Report Number

Intertek Report: 105585850LHD-001 dated 24th September 2024.

13. Special Conditions of Certification

(a). Special Conditions of Use

- The enclosure of the equipment can be susceptible to electrostatic charging. Avoid electrostatic discharge by cleaning the equipment with a damp cloth only. Refer to manufacturer instructions for further guidance

(b). Conditions of Manufacture - Routine Tests

- None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 105585850LHD-001 dated 24th September 2024.

SCHEDULE:

UK-Type Examination Certificate Number: ITS24UKEX0813X Issue 0

15. Drawings and Documents

| Title: | Drawing No.: | Rev. Level: | Date: |
|---|-----------------------|-------------|------------|
| BLS9200-IS Bilge/ Flood Detection Switch Installation Operation & Maintenance Instruction Manual Specific to Intrinsically Safe Installations under ATEX, IECEx, & UKCA | MAN 104 (15 pages) | A | July 2024 |
| Bilge Switch GA | P92000-9200-GA | A | 30/06/2006 |
| Bilge Switch Bracket | P92001-9200-DT | F | 28/03/2019 |
| Bilge Switch End Palte | P92002-9200-DT | C | 28/03/2019 |
| Bilge Switch Cable Termination Boss | P92003-9200-DT | A | 12/02/2008 |
| Bilge Switch Manual Lift Pull | P92006-9200-DT | C | 29/09/2008 |
| Bilge Switch Slosch Tube | P92010-9200-DT | A | 28/03/2019 |
| BLS9200 ATEX, IECEx & UKCA Labels | P92030-9200-DT | B | 11/07/2024 |

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This Certificate is accredited under UKAS schedule 0010

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.