HYTEK ATEX APPROVED BUND ALARM



BA3A.BP

Applies to the following models ONLY:

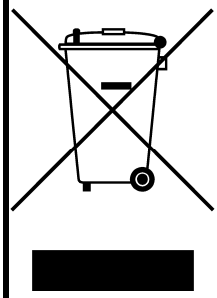
BA3A...

.BP	.BS	.BSP	.BAB

Please read carefully BEFORE commencing installation.

Registered Office: HYTEK (GB) LIMITED,
Delta House, Green Street, Elsenham, Bishop's Stortford,
CM22 6DS UK.
Registered in England No. 1915382
Tel: +44 (0) 1279 815 600
Email: info@hytekgb.com

ENVIRONMENTAL INFORMATION



UK Regulation SI 2013 3113 requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product must be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities.

PRODUCT DESCRIPTION

The Hytek Bund Alarm is designed to provide visual and audible alarms whenever a predetermined level in a storage tank bund is reached. The system consists of a weighted float sensor that is connected, with a 5 metre fuel resistant cable, to the weatherproof bund alarm box containing the visual and audible alarms.

This alarm is approved to operate with flammable liquids classed as category 1, 2 or 3 in accordance with European Regulation No. 1272/2008. It is ATEX certified in accordance with EN 60079-0 and EN 60079-11. It is also IECEx certified in accordance with IEC 60079-0: and IEC 60079-11

The alarm box, featuring the warning devices and test button, must be located outside any hazardous zone and bears the following certification marking and number:

CML16ATEX2356X
IECEx CML 16.0129X

Ⓔx II 1 G
[Ex ia IIA Ga]
-20°C to +40°C
CE 2776

The float sensor(s) can be located in hazardous zones 0, 1 or 2 and bears the following certification marking and number:

CML 16ATEX2355X
IECEx CML 16.0128X
CML 16ATEX2356X
IECEx CML 16.0129X

 II 1 G
Ex ia IIA T3 Ga
-20°C to +40°C

CONDITIONS OF CERTIFICATION

1. Due to safety critical internal creepage and clearance distances in the control unit, if installed in a location other than a clean and dry environment, the user shall ensure that the control unit is additionally provided with protection having an ingress protection rating of at least IP54 and is maintained throughout the lifetime of the equipment.

2. The float switch incorporates an isolated metal part which could become either charged in use or be a discharge point for charged liquids upon filling or emptying. The float switch shall only be used in applications where static generated via contact liquids are controlled so not to be considered an ignition source.

3. Only alkaline batteries of the same make shall be used as replacements.

IMPORTANT WARNING NOTES

1. This alarm is designed for use with liquids classed as category 1, 2 or 3 in accordance with European Regulation No. 1272/2008, including petrol, diesel, gas oil, water, hydraulic oil and heating oil.

2. The alarm box featuring the warning devices and test buttons must not be installed in a hazardous zone. The float sensor can be located in zones 0, 1 or 2 with the supplied connecting wire running to the alarm box.

3. The user must ensure that chemicals present in the atmosphere do not affect the performance or degrade the polycarbonate enclosure.

4. Use only the correct ATEX/IECEx certified float switches supplied.

5. The installation must be carried out by qualified installation engineers in accordance with the requirements of EN 60079-14 the latest relevant electrical and local authority regulations and standards.

6. It must not be used with any liquids or applications other than those specified. We will accept no warranty claims or liability if it is used for other liquids or applications.

7. This product must not be used if it is damaged.

INSTALLATION

1. Using the mounting lugs provided, fix the bund alarm box in the position required using the supplied screws.

2. For steel storage tanks fit the black cable gland from float switch to brass cap then slide onto float switch cable.

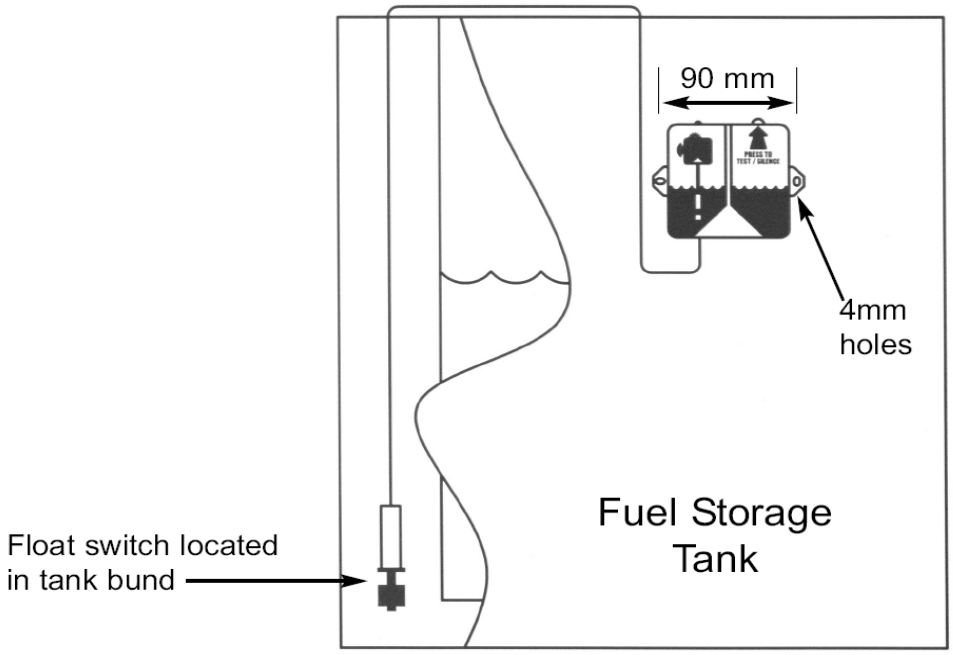
3. Hang the float switch inside the fuel storage tank bund and ensure it does not foul on the sidewalls. Locate the bottom of the float switch between 25mm (1”) and 150mm (6”) above the base of the bund. For steel tanks (BA3A.BSP) the brass cap will thread onto a 1 ½” tank fitting. For plastic tanks (BA3A.BP) the cable is secured using the P-clip provided.

4. Remove the Hytek bund alarm box cover (2 screws on the front), push the float switch cable through the gland on the underside of the box and connect the float sensor to the screw terminals shown in the image below with the red wire in the left terminal. Tighten cable gland. Connect the battery connector to the battery.



5. Press green button on top of Hytek bund alarm box. Ensure a series of short beeps can be heard and the light flashes. Replace cover and screw down firmly.

INSTALLATION DIAGRAM



OPERATION

The Hytek Bund Alarm will operate when the float switch is activated by a rising liquid level in the fuel storage tank bund. The alarm will sound as a rising beep every 2.5 seconds and the light will flash simultaneously.

To silence the alarm, press the green button. The light will continue to flash until the liquid level in the tank bund drops below the level of the float switch.

The battery will power the Hytek Bund Alarm for 72 hours in full alarm mode with both the sounder and light activated. Low battery power is indicated by a short beep every 25 seconds.

When the battery is low and the bund alarm is activated. The alarm will sound as a rising beep every 5 seconds to conserve power.

The light will flash every 25 seconds in normal operation (not in alarm mode) to indicate that the bund alarm is operating correctly.

If the float switch is disconnected or the cable has been severed the Hytek Bund Alarm will emit a short beep every 5 seconds. The light and sounder can be tested at any time by pressing the green button once. If the Hytek Bund Alarm is functioning correctly a short series of beeps will sound and the light will flash.

UK/EU DECLARATION OF CONFORMITY

Company Name: **Hytek (GB) Ltd**

Address: **Delta House, Green Street, Elsenham**
Bishop's Stortford, Hertfordshire, CM22 6DS

Date of Issue: **21st August 2023**

Equipment Details: **Alpha EX & MIR Tank Alarm and Day Tank Controller**
BA3A.BP, BA3A.BS, BA3A.BSP, BA3A.BAB, HLA3A.BP, HLA3A.BS, HLA3A.BSP, HLA3A.BAB

Applicable Directives: & Standards

SI 2016 1091 Electromagnetic Compatibility Regulations
2014/30/EU EMC Directive

SI 2016 1101 Electrical Equipment Safety Regulations
2014/35/EU Low Voltage Directive

SI 2008 1597 Supply of Machinery Safety Regulations
2006/42/EC Machinery Directive

SI 2013 3113 Waste Electrical & Electronic Equipment Regulations
2012/19/EU Waste Electrical & Electronic Equipment Regulations

SI 2012 3032 Restriction of Use of Certain Hazardous Substances Regulations
2011/65/EU Restriction of Hazardous Substances Directive (RoHS2)

2014/34/EU ATEX Directive
ATEX - EN 60079-0 and EN 60079-11
IECEx - IEC 60079-0 and IEC 60079-11

EU Type examination Certificate Number: CML 16ATEX2356X
IECEx CML 16.0129X

Issued by Notified Body: CML Ltd. Number CML 2503
Unit 1 Newport Business Park,
New Port Road, Ellesmere Port, CH65 4LZ UK

Marking:

Alarm Box:
CML16ATEX2356X
IECEx CML 16.0129X

Ex II 1 G
[Ex ia IIA Ga]
-20°C to +40°C
CE 2776

Float Sensor:
CML 16ATEX2355X
IECEx CML 16.0128X
CML 16ATEX2356X
IECEx CML 16.0129X

Ex II 1 G
Ex ia IIA T3 Ga
-20°C to +40°C

Notified Body Issuing QA: Notification Certificate: CML B.V Number 2776
Chamber of Commerce No 6738671
Hoogoorddreef 15, Amsterdam, 1101 BA,
The Netherlands

Declaration Number: **UK131 Issue 9**

On behalf of the above-named company, I declare under our sole responsibility that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

Clive Wellings, Process Co-ordinator,21st August 2023, Bishop's Stortford, Herts

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