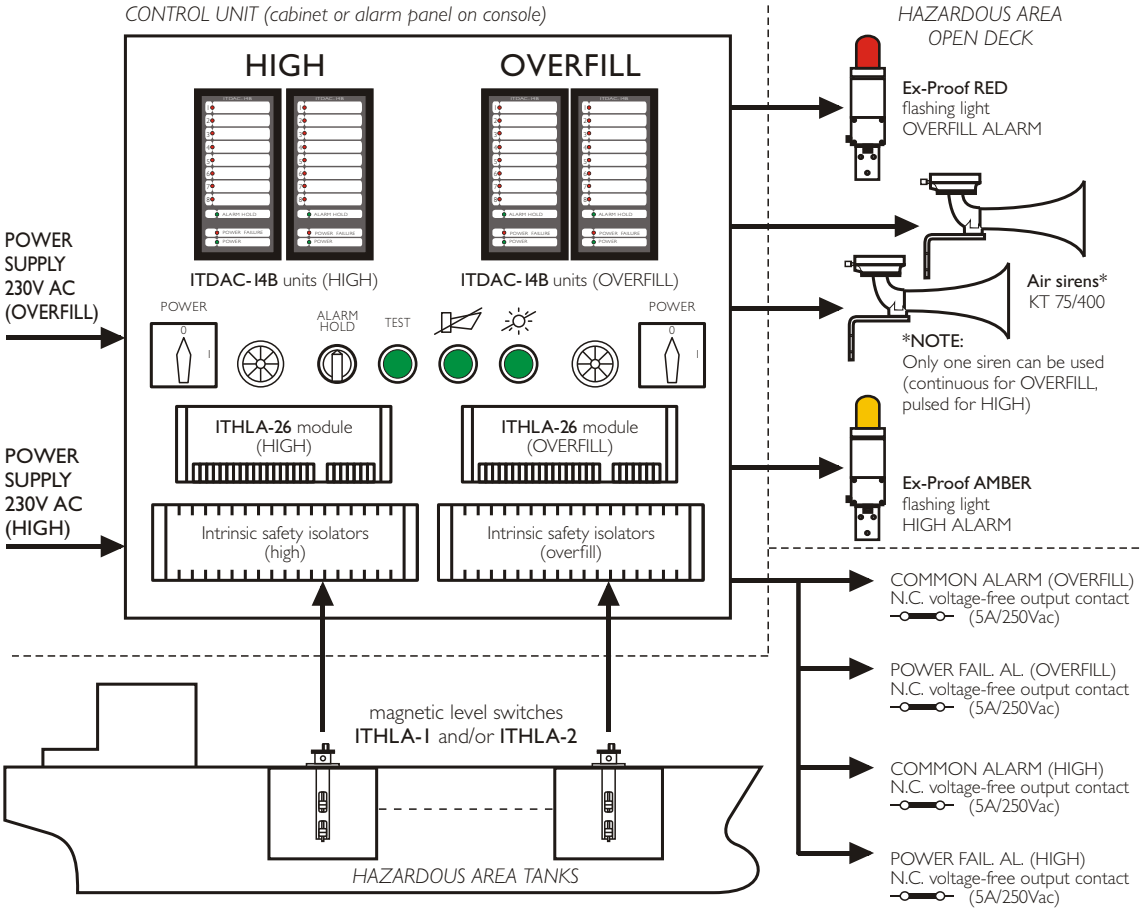
HIGH LEVEL AND OVERFILL ALARM SYSTEM ITHLA

High level and overfill alarm system type **ITHLA** is designed for use on board all types of liquid cargo ships. It is tailor made, following specific requirements and meets requirements of all major classification societies.

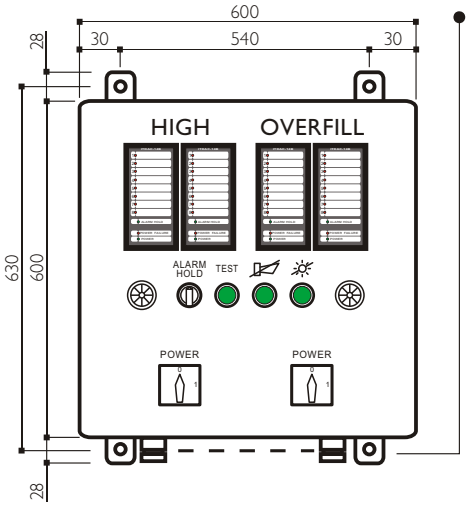


High level and overfill alarm system consists of:

Control unit with completely separate high and overfill alarm
Magnetic level switches type **ITHLA-1** (single point alarm) and/or **ITHLA-2** (double point alarm)
Output signalling devices: ex proof flashing lights and air sirens KT 75/400

New types for high temperature are available: **ITHLA-2(1)/200** for up to 200°C
ITHLA-2(1)/B for up to 280°C (see separate leaflet)

COMPONENTS TECHNICAL CHARACTERISTICS AND DIMENSIONS



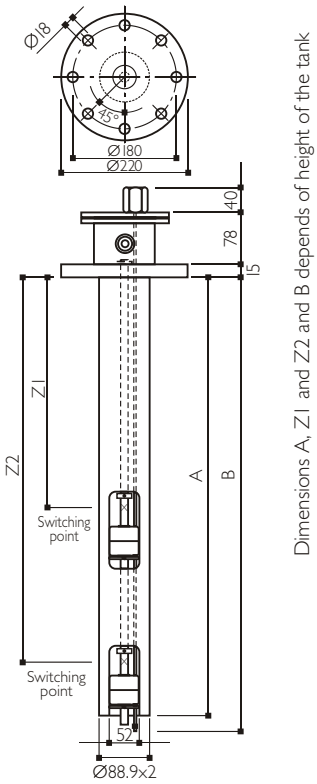
CONTROL UNIT

- Power supply 230V AC - separate for high and for overfill
- Alarm units ITDAC-I4B for alarm indication - up to 8 alarm points For more than eight points, more units can be used, with common control buttons (electricaly separated contacts for high and for overfill) and power failure battery
- ITHLA-26 Power and Input/output units for power supply and external signaling devices (flashing lights and air siren) connection; N.C. voltage-free output contacts for common and power failure alarm included
- Intrinsic safety isolators for magnetic level switches connection. Magnetic level switches connection cables are fully controlled (short circuit, line break, resistance)
- ITHLA-INT module with control buttons: ALARM HOLD switch, TEST and alarm reset (light and audio) pushbuttons
- Type approved by GL, DNV, BV, RINA, CRS and others on request

MAGNETIC LEVEL SWITCHES

Types: **ITHLA-2** (double point)
ITHLA-1 (single point)
ITHLA-2/200 (double point)
ITHLA-1/200 (single point)

When high level or overfill alarm is required, single point magnetic level switch ITHLA-1 is used; when both (high level and overfill) alarms are required, double point magnetic level switch ITHLA-2 should be used
AISI 316L stainless steel construction with flange DN100, NP10/NP16
Can be tested from outside of tank
A float with built-in magnet moves with liquid level and activates reed switch fitted in the stem
Can be installed in dangerous area and connected only over intrinsic safety isolator situated in non-hazardous area
Working pressure: up to 4 bar for wetting part
Connection head protection: IP 56
Operating temperature: -25°C up to +90°C for ITHLA-2(1) types
For high temperature operation new types are available:
ITHLA-2(1)/200 for -25°C up to +200°C
ITHLA-2(1)/B for -25°C up to +280°C (see separate leaflet)



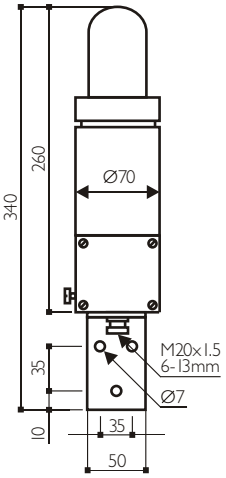
Dimensions A, Z1 and Z2 and B depends of height of the tank

EX PROOF FLASHING LIGHTS

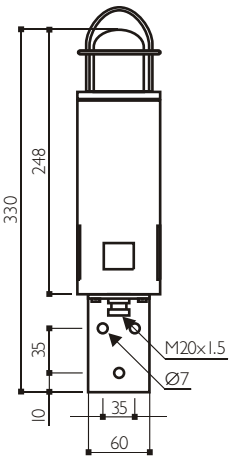
TECHNICAL CHARACTERISTICS

Type: 6161 or CWB-ATEX or XB9
Explosion protection:
EEx d IIC T5/T6
(EEx d IIC T5/T6 (XB9))
Power supply 230V AC
Consumption 80mA (60mA (XB9))
Flashing power 5J
Primary fuse 0.20AT
Protection IP66
Weight approx. 1.5 kg (1.6 kg (XB9))
Colours: red, amber

6161 or CWB-ATEX



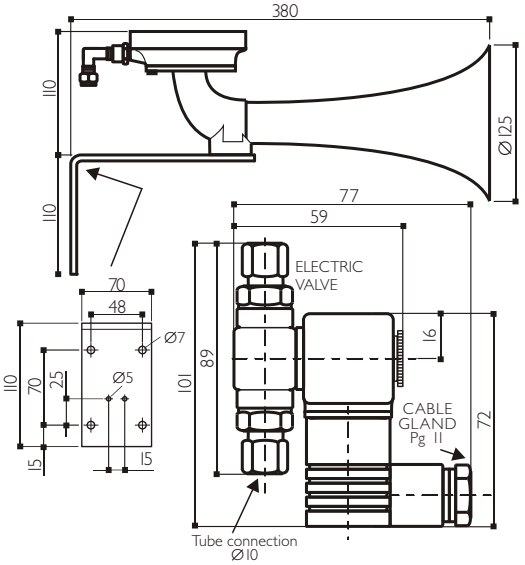
XB9



AIR SIREN KT 75/400

TECHNICAL CHARACTERISTICS

Frequency: basic tone 400 Hz
Sound pressure level: 136dB(A) at 1 m, 120dB(A) at 6 m
Working pressure: in inlet 2-12 bar
Weight: 0.34 kg
Valve solenoid power supply 230V AC
Cable connector protection: IP 65



All dimensions are in mm.

INELTEH
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