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BMS OILBUG & OILBUG+PLUS : INSTALLATION AND MAINTENANCE INSTRUCTIONS

The BMS OILBUG was specifically developed as an economic means of providing spot monitoring for diesel, oil, water and chemical leaks associated with Diesel Storage Areas, Tank Rooms, Pump Rooms, Plant Rooms etc. The OILBUG is a miniature sophisticated Leak Detection Alarm designed as a stand-alone module powered either from an adjacent mains or a 'low voltage' power supply, which provides Leak Detection signals via on-board changeover contacts to a Central Monitor or to a Building Management System (BMS). The Unit is provided with a housing designed for in-situ monitoring, or for remote wall mounting applications, or to be fitted in a Control Cabinet. The BMS OILBUG is not provided with audio/visual indication whereas the OILBUG+PLUS is fitted with additional LED Indicators, Horn and Mute Button.

The OILBUG is designed for two differing monitoring applications. This is determined at time of manufacture and is not interchangeable. Each circuit has separate individual PCB mounted terminals marked either as REDEYE or SENSOR. Please note that the Oil/Chemical Circuit will only operate from the Aqualeak Redeye or Proxitec Sensors. The Water Detection Circuit will only operate from appropriate Aqualeak Water Detection Sensors/Probes/Tape/Cable. *The CABLE circuit monitors aqueous liquids only.*

CONTROL HOUSING: The system is normally housed in an IP 65 rated cabinet. For wall or cabinet mounting, mounting holes can be drilled in the positions shown. Removal of the PCB is not necessary. To retain the IP rating, the optional flexible water-resistant kit must be fitted and the gland/s must be correctly screwed down. The standard OILBUG is not provided with audible or visual alarms. The OILBUG+Plus Unit has Alarm and Fault lamps, Sounder and Mute Button fitted as standard.

POWER CONNECTIONS : The OILBUG module can operate either from 110/240V AC when supplied with a transformer, or from an external 12 - 24 V AC or DC power supply. The same power input terminals are used whether the supply is mains voltage or low voltage. Power connections are to a terminal block marked L E N ; 'live' is fused with a 2 amp 'power' cartridge fuse. Power consumption at 24V AC is 30mA 'run' and 50mA 'alarm'. The 'control' fuse is also cartridge type rated at 500mA.

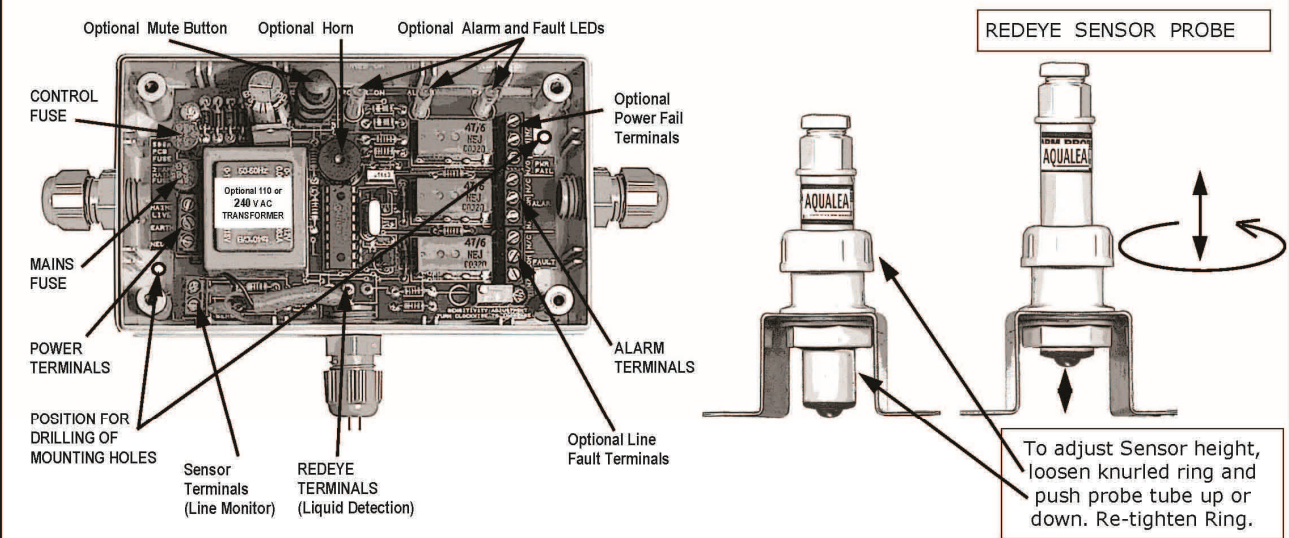
*PLEASE NOTE : If an external 12-24V power Supply is being used, the supply transformer output MUST NOT be tied down to Earth. If the transformer is earthed, conductivity to any surface that may be earthed would backfeed to the processor causing **fatal** damage when water is detected.*

IMPORTANT : OIL / CHEMICAL SENSOR CONNECTIONS: to Terminals marked "REDEYE" only! Terminals marked "SENSOR" are for line monitoring.

The REDEYE circuit monitors non-conductive liquids. The REDEYE circuit, based on a three-wire system (BMS OILBUG) or a five wire system (OILBUG+PLUS), is designed to monitor oil and chemical leaks (*and also water*) with the Redeye Optoschmitt Sensor. The OILBUG Module connects to the Redeye Sensor through Signal Cable directly from the terminal block marked REDEYE and terminals +V, SIG, 0V, which are polarity conscious and *must* be connected correctly: Redeye Sensor wire colours: Red to OILBUG terminals "+V"; Green to "SIG"; Blue to "0V". EOL Line Monitoring wires (OILBUG+PLUS only) Black and Yellow from the Resistor Terminals at the RedEye to the SENSOR terminals in the OILBUG ; these two connections are not polarity conscious. (The Setting Adjustment pot must NOT be adjusted when using the Redeye circuit.)

BMS/OUTPUT ALARM CONNECTIONS: The BMS OILBUG and OILBUG+PLUS are provided as standard with a 'No-Volt' changeover output signalling relay rated at 230VAC 2amp with 'Normally Closed or Normally Open' change-over contacts to advise of a 'detected' alarm condition. The terminal block for the relay is marked ALARM and is marked with N/C (normally closed), N/O (normally open) and COM (common) The optional Cable LINE FAULT and power supply POWER FAULT Relay have the same characteristics and trigger immediately when the appropriate alarm occurs.

REDEYE SENSOR PROBE: The REDEYE Sensor Probe is normally mounted on a Stainless Steel floor bracket and in some cases has a protective housing covering the upper section. Connections are to terminals protected within the probe tube (or externally within the protective housing). Sensor height adjustment (0-25mm) is by loosening the upper knurled ring and pushing the probe tube up or down within the unit body. Maximum of two REDEYE Sensor Probes can be used, and these must be wired in parallel.



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