

Offshore Oil and Gas Applications

Typical Zone 1 lighting installation.



Photo courtesy of Shell International Ltd.



HDL 103: Area 1



HDL 106: Area 2



HDL 109: Area 3



HDL 100: Area 4



HDL 102: Area 5



HDL 105: Area 6



HDL 113-133: Area 7

Offshore Oil and Gas applications, whether these be fixed platforms, mobile drilling rigs or FPSO's and other vessels, present particular challenges for lighting with most areas being classified as Zone 1. Health & Safety considerations are critical offshore whilst, in addition, rigs and vessels are often operating in environmentally hostile environments with corrosive sea air and extreme temperatures. The high cost of shut down for such operations means specifiers and engineers must have 100% confidence in their lighting systems.

Area 1: Helidecks HDL103 – Ex em LED luminaires available in Green (Helidecks), Red (Obstruction) or White (general lighting). This unit can be set on installation for constant light output or flashing. The LED technology should give the unit 100,000 hours of life (10 yr). Low output, Low maintenance.

Area 2: Derricks/Communication Masts HDL 106 – Ex em LED Luminaire/Floodlight represents the future of Hazardous Area lighting. Weighing only 6.0 kg yet can generate as much illumination as a much larger input SON or MBI alternative. Instant on / off low power 100,000 hours life expectancy. Vibration resistant. Fit and forget illumination. Emergency variant available. Linkabe to give larger outputs. Available in Wide, Medium or Narrow beam pattern.

Area 3: Production Areas HDL 108 and 109 – Ex em Bulkhead Luminaires are ideal for exit signs – wall or ceiling mounted. On the emergency version one fluorescent lamp remains on at reduced output. Can be operated maintained or non-maintained.

Area 4: Deck/Walkway Lighting HDL 100 - Ex em Fluorescent Luminaire for overhead and handrail mounting the HDL 100 courtesy of its full length built in unistrut mounting channel, offers an unparalleled variety of mounting options. With quick and easy isolation free re-lamping, light weight and rugged short gasket design the HDL 100 ticks all the boxes for hazardous area versatility.

Area 5: Living Quarters HDL 102 Fluorescent Recessed Luminaire – Ex em recessed luminaire incorporating the latest “End of life” (EoL) protection circuit ballast. Designed to fit exposed ‘T’ and concealed ‘T’ modular ceiling types.

Area 6: Portable Units HDL 105 Portable EX em Luminaire can be supplied direct with cable entries or with plugs and sockets to allow luminaires to be instantly linked in series. Emergency variants are available and the unit comes in a variety of sizes, combinations and plug and cable options which are endless. Magnetic fixing brackets and a variety of other fitting options are available for this unit.

Area 7: Fabrication Bays HDL 113-133 Ex ed or Ex de Wellglass versatile units that can accept a variety of voltage and lamping options. Designed in Marine Grade Aluminium offering simple and straightforward maintenance. Unique in its internal flamepaths which eliminate the risk of corrosion.

Engineering Solutions
Design to Manufacture

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