BINAY’s OEM/P Series LED (Light Emitting Diode) Integral LED Module pilot lights are a cost-effective solution for providing a basic and reliable indication for standard applications

The Binay OEM/P Series range of LED Modules are backed by the Binay reputation for quality, innovation, and reliability, and are suitable for simple indication purposes in various applications. All OEM/P Series Modules utilise standard industrial grade LEDs, LED chips, and associated internal components, and are burnt-in (aged) for 12 hours after production quality tests.

Some of the salient features of the OEM/P Series range are:

- **Compact design; Solid-state reliability; Shock-proof, vibration-resistant construction; Low current and power consumption**

- **Available in voltage ratings from 6V to 230V AC or DC, in models for 22.5mm, 25.5mm, and 30.5mm panel cutout diameters**

- **A long life of 1,00,000 hours (11 years, calculated on a continuous burning basis)**

- **Built-in Low (Leakage) Voltage Glow Protection – a BINAY feature (under patent appl.)**

  We provide our patent (appl.) built-in Low Voltage Glow Protection (LVGP) circuit in our LED Modules so that the LED will not glow as a result of stray leakage voltages induced in long parallel runs of cabling. This is extremely important, particularly in large industrial complexes which have such long runs of parallel cabling. While the existing filament bulb does not glow at these small induced leakage voltages due to thermal inertia of the filament, LEDs glow readily, giving rise to false ‘ghost’ indications.

- **Red, green, yellow, amber, blue and pure white colours (orange and violet/purple also available under special order)**

LED construction and Light Output:

- **A majority of BINAY LED pilot light modules are constructed with high intensity industrial grade MULTICHIP CHIP-ON-BOARD CONSTRUCTION, rather than discrete LEDs. This is done in order to provide greater reliability, and wider diffusion viewing angle**

- **GREEN colour: All BINAY LED pilot light Modules in Green are made with TRUE PURE GREEN chips (525nm) which emit the same shade of green as the filament lamp green lens (rather than the pseudo lime-green shade of 575nm which is effected when lamps are made with the standard market green LEDs)**

- **Inbuilt ESD protection for LED chips:** The multichip design has inbuilt chip level ESD (Electro Static Discharge) suppression. This is important, as without this protection, LED chips may be damaged due to ESD during handling/assembly, and will fail (NOT immediately, but over a period of 3-6 months’ time) due to the latent defect in them.

- **Inbuilt fail-safe chip redundancy:** The LED chips have inbuilt circuitry to ensure failure of one chip does not cause the other chips to stop glowing.

  (This is a very important redundancy feature to be incorporated in all industrial LED chip products. LED pilot Lights are capital equipment products. They are not designed to be replaced, and replacements can only be affected after shutdown of the panel – and sometimes only during shutdown of the whole plant, which may be once in a year. Thus it is important to ensure that LED pilot lights have inbuilt redundancy designed into them, so that they do not fail.)

- **Polycarbonate lens; body of heat resistant, fire-retardant, non-hygrosopic moulded engineering plastic material**

- **BINAY’s unique dual lens system is used to provide wide-angle light diffusion**

- **The Module is designed to IP 54 requirements (i.e. water & dust penetration), and can be IP65 if desired**

- **Terminals capable of holding two 1.5mm sq. pin type or spade type lugs**

- **Withstands a voltage at 1.5 KV between body and terminal for 1 minute**

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**INVENTING NEW TECHNIQUES OF PRODUCING LIGHT**