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VCC Delivers Low-profile Button Type Lens Assemblies for Heavy-duty Panel Solutions

POWAY, CA (September 3, 2014) — VCC, the global leader in indication and specialty illumination solutions, has strengthened its LED lens product offering with the development of NEMA 4-rated, low-profile button type lens assemblies. The CMS 442 and HMS 462 Series lens assemblies have been designed not only to meet the needs of all indoor indication lighting applications, but also harsh environments. Combining simple and fast assembly with reliability and ruggedness, the CMS 442 and HMS 462 Series lenses have been proven in heavy-duty panel applications that require advanced NEMA 4 and moisture-proof protection.

The CMS 442 and HMS 462 Series lens assemblies feature uniquely-designed spiral mating threads that provide a superior mounting system. Tested by an independent laboratory, the ruggedized threaded design exceeds all test criteria for NEMA 4 and beyond, including water seal depths down to 100m, shock up to 6Gs, vibration up to 6 Gs from 0 to 2000Hz, temperature cycling from -40°C to +105°C, UV resistance, dust sealing, and ice encasement.

For board to panel applications, these lenses can also be paired with VCC Litepipes® Series light pipes and cable assemblies.

Featuring a smooth, clean look with a convex surface protruding just above the panel, the CMS 442 and HMS 462 Series lenses spiral mating threads enable quick assembly to the front panel. With less than a full turn, the lens is tightly mounted to the panel using the included lock washer and retaining ring. The circuit board is completely independent of the display panel, simplifying installation or removal for assembly or repair.

In addition, the lens assemblies increase the aesthetics of display panels. The low-profile design greatly enhances the light output of the LED by significantly reducing the ambient light effect upon the lens. The lens can increase the viewing angle to 180° by the use of patented VCC diffusion ring technology.

The CMS 442 is used for 5mm LED applications with a .312" (7.92mm) diameter mounting hole, while the HMS 462 provides a 10mm LED solution with a .562" (16.56mm) diameter mounting hole.

For more information about the CMS 442 lens assembly from VCC, view the datasheet at http://vcclite.com/_pdf/CMS-442-5mm-fresnel-watertight-drawing.pdf

For more information about the HMS 462 lens assembly from VCC, view the datasheet http://www.vcclite.com/_pdf/HMS-462-10mm-fresnel-watertight-drawing.pdf

View an application note at:
http://vcclite.com/_pdf/VCC%20Cummings%20Design%20Win%20.pdf

About VCC
Based in Poway, California, Visual Communications Company, LLC, is the recognized leader in the development and manufacturing of innovative LED, incandescent, neon and specialty indicator light solutions for global markets including aerospace, medical, automotive, transportation, safety and industrial. VCC's design services group helps OEMs solve challenging applications involving the delivery of light with high-performance, innovative LED panel indication and illumination solutions. With nearly 40 years of experience, VCC and its distributors serve customers all over the world. Learn more at www.vcclite.com.