

## D4i sensors and controllers for smart, IoT-ready luminaires

Piscataway, NJ, USA – 22 October 2020: The DALI Alliance (DiiA) is now offering D4i certification of DALI-based control devices that are designed for mounting on LED luminaires. Eligible devices include light-level or occupancy sensors, as well as control nodes that can communicate wirelessly with external networks.

D4i is the DALI standard for intelligent, IoT-ready luminaires. By taking care of control and power requirements, D4i makes it much easier to mount sensors and communication devices on luminaires. In addition, intelligent D4i LED drivers inside the luminaire have the capability to store and report a wide range of luminaire, energy and diagnostics data in a standardized format.

Smart D4i luminaires are ideal platforms for the IoT, capable of gathering information from on-board D4i sensors, and providing data for performance monitoring, asset management, predictive maintenance and many other tasks. Communication and data exchange with an external network can take place via a D4i control device with wireless communication capabilities.

"Certification of D4i sensors and controllers is a significant milestone for our members and their customers," said Paul Drosihn, DALI Alliance General Manager. "The availability of qualified D4i control devices, alongside the many D4i drivers already available from numerous suppliers, brings further standardization to the market and simplifies the specification process."

D4i standardization also enables luminaires to make use of socketed connector systems, providing plug-and-play interoperability and future proofing. The DALI Alliance has worked with the Zhaga Consortium to standardize the D4i-based connector systems defined in Zhaga Book 18 (for outdoor luminaires) and Book 20 (indoor).

The joint Zhaga-D4i certification program has already qualified a number of D4i luminaires with Zhaga receptacles. Now, qualified D4i sensors and controllers with Zhaga connectors will also be eligible for Zhaga-D4i certification.

## Specifications

The requirements for luminaire-mounted control devices are defined in the DALI Part 351 specification, created by the DALI Alliance, which builds on the IEC 62386 international standard. Qualifying D4i control devices implement Part 351 as well as meeting the requirements for DALI-2 certification.

Part 351 defines four different classes of control device (types A-D), and includes specific requirements for power consumption. There is also a mechanism to decide which control device takes priority when more than one is present. These types cover both indoor and outdoor applications, and include devices such as wireless network lighting controllers (NLCs), photocells (light sensors), movement sensors and timers.



More information can be found in the Part 351 specification, which is freely available on the DALI Alliance website here: <a href="http://www.dali2.org/specifications/download.html">www.dali2.org/specifications/download.html</a>. D4i certification is open to all DALI Alliance members, and all D4i-certified products are listed in our online product database: <a href="http://www.dali2.org/products">www.dali2.org/specifications/download.html</a>. D4i certification is open to all DALI Alliance members, and all D4i-certified products are listed in our online product database: <a href="http://www.dali2.org/products">www.dali2.org/products</a>.

## About the DALI Alliance

The DALI Alliance (also known as the Digital Illumination Interface Alliance or DiiA) is an open, global consortium of lighting companies spearheading growth of lighting-control solutions based on Digital Addressable Lighting Interface (DALI) technology. The organization is driving the adoption of DALI-2, the latest version of the internationally-standardized DALI protocol, and operates the DALI-2 and D4i certification programs to boost levels of cross-vendor interoperability. The DALI Alliance develops test specifications for product compliance testing, and also creates new requirements for additional product features and functions. More information: www.dali-alliance.org

## **Editorial contact**

Publitek Nayl D'Souza nayl.dsouza@publitek.com T: +44 (0) 203 813 6423