

UL Solutions is your DiiA-accredited expert for DALI-2 protocol testing

Certify global interoperability and compliance of your LED drivers, control gear, and devices to the DALI-2 specification

Multi-vendor interoperability increases user acceptance

Throughout the world, more than 220 members of the Digital Illumination Interface Alliance (DiiA) develop lighting products and components that benefit from the standardized Digital Addressable Lighting Interface (DALI), which is specified in the multipart international standard IEC 62386.

On the 31st of December, 2019, the registration of **DALI version 1 LED drivers ended.**

DALI-2, the second generation of the protocol, now includes additional application controllers and input devices, like push button switches and coupler, occupancy and light sensor. Through a clearer specification, including bus timing and bus power, the interoperability between multiple devices and vendors is improved. Polarity insensitivity enables easier installation. Less wiring is needed with bus-powered units, and more cost-effective products can be realized by multiple logical units. The extended fade time from 100 ms to 16 minutes increases comfort and flexibility for the end user. A query of the light-source type is also included and enables easier maintenance.

We are a DiiA-accredited international test house and perform compliance testing to the DALI-2 specification



As part of the newly established DALI-2 product certification process, an independent verification of the test results by the DiiA is required. Test results issued by UL Solutions, an accredited test house, are accepted for this verification process. This new process can help avoid interoperability issues based solely on the self-declaration of compliance, which was established for the DALI version 1.

Building owners can benefit from this certification process. With DALI-2, lighting products interoperability among multiple vendors is guaranteed. This helps secure your investment.



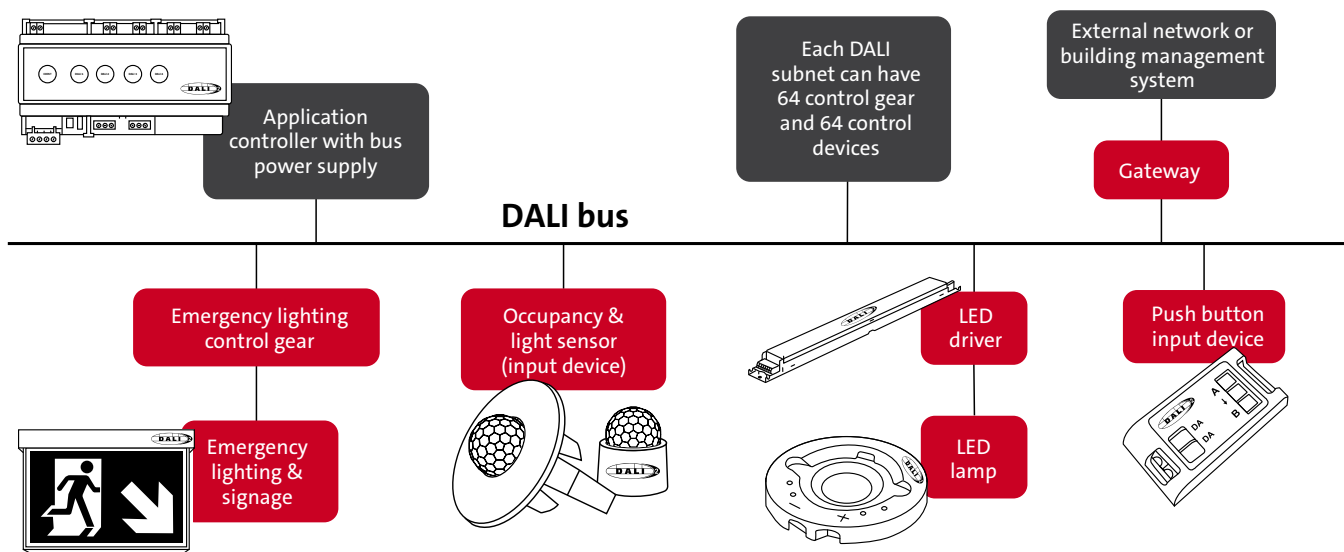
Why UL Solutions?

With our extensive experience in interoperability testing of wireless connectivity, we are a trusted resource for the lighting industry.

Even with no standard currently in place to combine a 2-wire DALI-bus to a wireless communication protocol, wireless connectivity can still be achieved. The DiiA already announced to their members that they will work on such a standard for an application gateway solution for Zigbee and Thread and Bluetooth as an underlying wireless carrier to establish a DALI-2 end-to-end communication. For all three wireless technologies, we are already a certified resource.



DALI product types



An example of a DALI lighting-control system



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