

**PRESS RELEASE**

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# **Establishing building-wide DALI-2 light control system connections: The APC Ethernet Link from ESYLUX**

**The APC Ethernet Link enables up to 16 lines of an ESYLUX DALI-2 light control system to be connected. This makes it possible for lighting to be switched on and off centrally, scenes to be retrieved and groups to be switched, as well as enabling the implementation of the swarm function across lines. To achieve this, each line is assigned an APC Ethernet Link and connected to an Ethernet Switch. As usual, configuration is carried out via the DALI-2 control units.**

With up to 16 groups and 64 control gears, a single ESYLUX DALI-2 control unit (Application Controller = APC) already enables convenient and energy-efficient modernisation of large building areas. Nevertheless, some areas also require the ability to override some or all of these DALI control units and their lines from a central location. The necessary connections can now be established with a small, additional module: the APC Ethernet Link.

## **Up to 16 DALI lines, power supply via PoE**

To establish these connections, one APC Ethernet Link is assigned to each of these up to 16 DALI lines, mounted either in the switch cabinet or on the ceiling and connected to an Ethernet switch on the relevant floor using a CAT5 cable. The module is powered by PoE (Power over Ethernet), either directly by an

appropriately configured switch or by connecting an additional PoE injector. The IP configuration of the APC Ethernet Link is performed automatically.

### **Using centralised ON/OFF switching, scenes, swarm function**

Establishing connections in this way enables bidirectional communication between the lines, centralised switching and triggering of scenes, and opens up even wider-reaching possibilities. Switching groups allows, for example, scenarios for a variety of room uses to be controlled from a central location. The swarm function allows the lines to interact with each other: The lighting functions at normal power in occupied zones only, while the lighting in unoccupied areas of the building is dimmed to a comfortable basic lighting level – and only when there are no people in the building at all is the lighting switched off.

As usual, the configuration of the cross-line functions enabled by this system is performed by the DALI-2 control units. ESYLUX integrates these control units into either an APC presence detector or an APC DIN rail module. For custom control in all zones, push buttons and BMS presence detectors are used as input devices, for example for presence- and daylight-dependent constant light control or energy-efficient Human Centric Lighting.

## Photos and captions



*Source: iStock/a4ndreas/ESYLUX*

The APC Ethernet Link connects up to 16 APC control units or lines of an ESYLUX DALI-2 system.

### **About ESYLUX – Performance for Simplicity**

ESYLUX develops, produces and distributes intelligent automation and lighting solutions for a better quality of life and energy efficiency in office buildings, educational institutions and healthcare facilities. People's requirements and needs are central to what we do. As a result, we place particular importance on ensuring that our product solutions are easy to use. ESYLUX customers and partners include wholesalers, installation companies, electrical and lighting planners and architects who trust in the company's over 55 years of market experience and the personal, specialist advice provided by ESYLUX experts. Furthermore, ESYLUX meets the highest quality standards in research, development and production at its German site in Ahrensburg. Our sales organisation is global: ESYLUX operates in collaboration with experienced trading partners and is represented by numerous distribution companies in Europe, Asia and Oceania.

**More information is available at [www.esylux.com](http://www.esylux.com)**

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