



# Lighting management by zones

Lighting management is essential to bringing more convenience to users while reducing energy bills.

The primary criteria of good management are the definition of lighting zones (offices, reception areas, workshops, corridors, etc.), the setting of lighting levels, control of luminaries (on/off, regulation of light, hourly ranges of operation, etc.).

**The Canalis busbar offers four interoperable solutions dedicated to lighting to meet usage and savings needs.**

The total length of the Canalis devices installed is equal to twice the distance around the world.



x2

**35%** share of lighting in the electrical consumption of a building

**40%** potential savings through the management of lighting

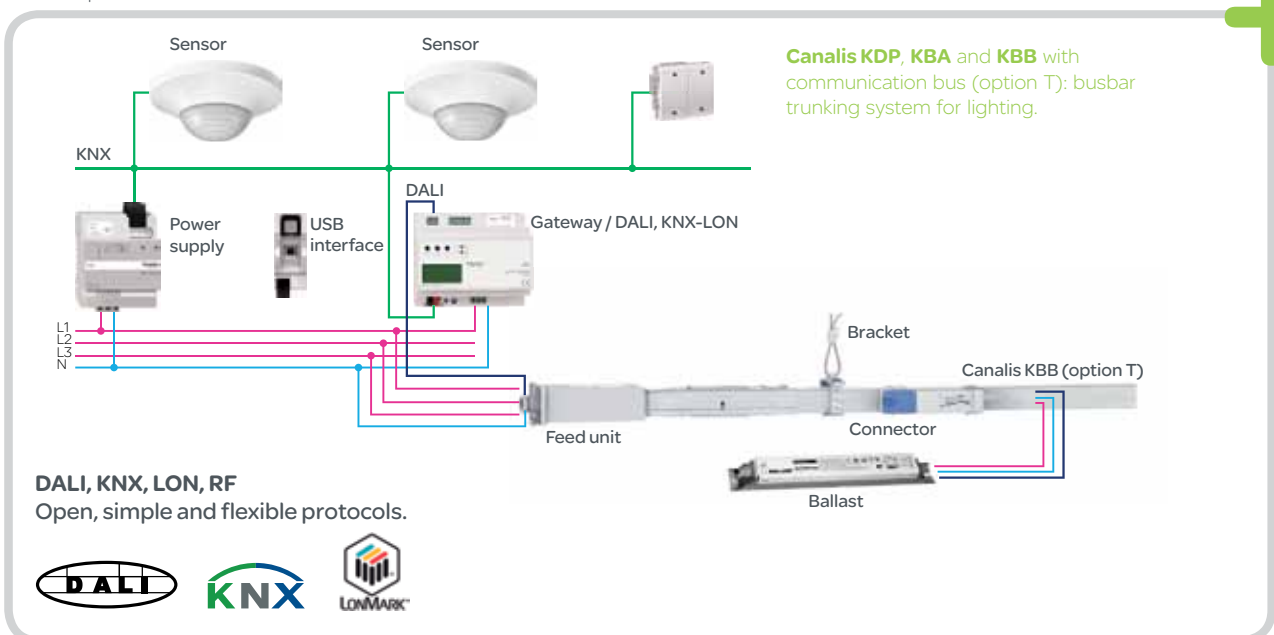
(from 25% to 50% in a small business environment)  
(from 10% to 15% in an industrial environment)

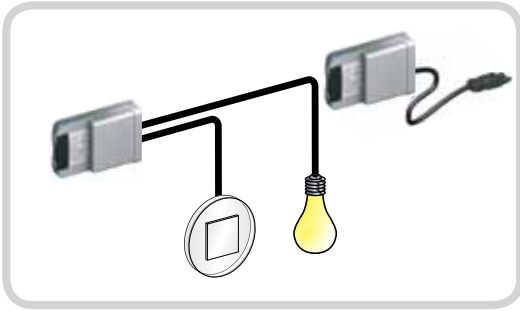


Schneider Electric, the market leader in busbar trunking systems, is backed by almost sixty years of experience (Canalis has been on the market since 1954).

**Canalis is compatible with communication protocols adapted to the management of lighting such as DALI, KNX, LON or radio frequency (RF).** Canalis also supports effective and optimal lighting management solutions to fully contribute to potential energy savings.

Example of installation with Canalis

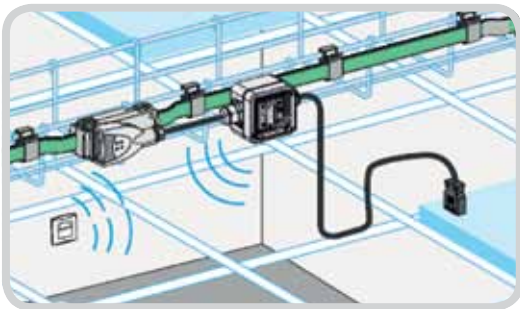




### Systems with connectors

For **installations in suspended ceilings** with Canalis KBA, KBB or KDP lines, the connectors of type KBC10 DS/DD/DV/DM enable the independent connection and configuration of luminaires from each other.

This wide range of electronic connectors enables, according to their functions, the control of one or two lamps (with or without control using a two-way switch), control according to the programmed hourly ranges, twilight detection, presence detection, etc.



### Systems with radio-frequency connectors (RF)\*

For **construction and renovation**, the RF connections provide wide flexibility in the development and maintenance of the installation.

They incorporate RF technology and are compatible with the Schneider Electric Unica RF and Odace RF ranges of wireless devices.

In partitioned areas, the system enables the management of up to 32 lighting circuits.

\*This solution is not available in all countries..



Argus DALI detectors and Argus 1-10V

### Systems with 1-10V or DALI protocol control

This solution enables the **quick and easy installation of lighting control systems**, without programming or expertise.

Canalis KBA and KBB (with communication bus, option T) or Canalis KDP (using two conductors) enables the transfer of communication information between Argus detectors and lighting ballasts.

The power supply of the luminaires and sensors is done through other busbars.

This system enables the economic use of three cables, further reducing the risks of connection error.



### Systems with a communication bus

For **intelligent buildings**, the iBusway for Lighting Management solution is incorporated as an integral functional brick in the Building Management System (BMS).

This solution is based on the DALI protocol for controlling the lighting, and on the KNX protocol for the control and configuration.

This system is used to control, for each zone, up to 16 groups of 64 luminaires.

Canalis, lighting management has never been so simple to implement:

- > more comfort for users
- > improved energy efficiency



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