

Management of a large office building

KBB, rigid busbar trunking



Customer needs

Automate the lighting of a large office building, while retaining the possibility of local control.

Manage energy consumption, and luminaire maintenance.

Adapt the lighting according to:

- a timer program,
- the presence of people,
- the level of natural light based on several areas.

Perform override control of lighting by area.

Rapidly reallocate a work area.

Users / customer benefits

- **fast installation:** Canalis busbar trunking, formed of prefabricated elements, can be installed rapidly and safely. Connections require no tools and are designed to prevent any risk of incorrect connection,
- reallocation of the various offices,
- **simplified maintenance:** no preventive maintenance campaign (renewal of the lamps according to their service life),
- simple lighting management and cost saving scenarios.

Proposed solution

KBB, rigid busbar trunking

The choice made is a KNX type Building Management System, connected to a "Canalis KBB" busbar trunking architecture, DALI-compatible, performing the functions of lighting management, measuring and monitoring.

The use of DALI detectors located in each area makes it possible to maintain a constant luminosity level in the presence of employees, for optimal working conditions.

Override setting of the lighting for each area is performed by KNX switches.

Fault information is sent by the ballasts via the DALI communication network.

By rearrangement, it is easy to allocate new monitoring points for an office or group luminaires.



Large office building

Preferred application

- offices,
- educational institutions, etc.

Pre-cabling + communication network = easy reallocation + control of energy consumption

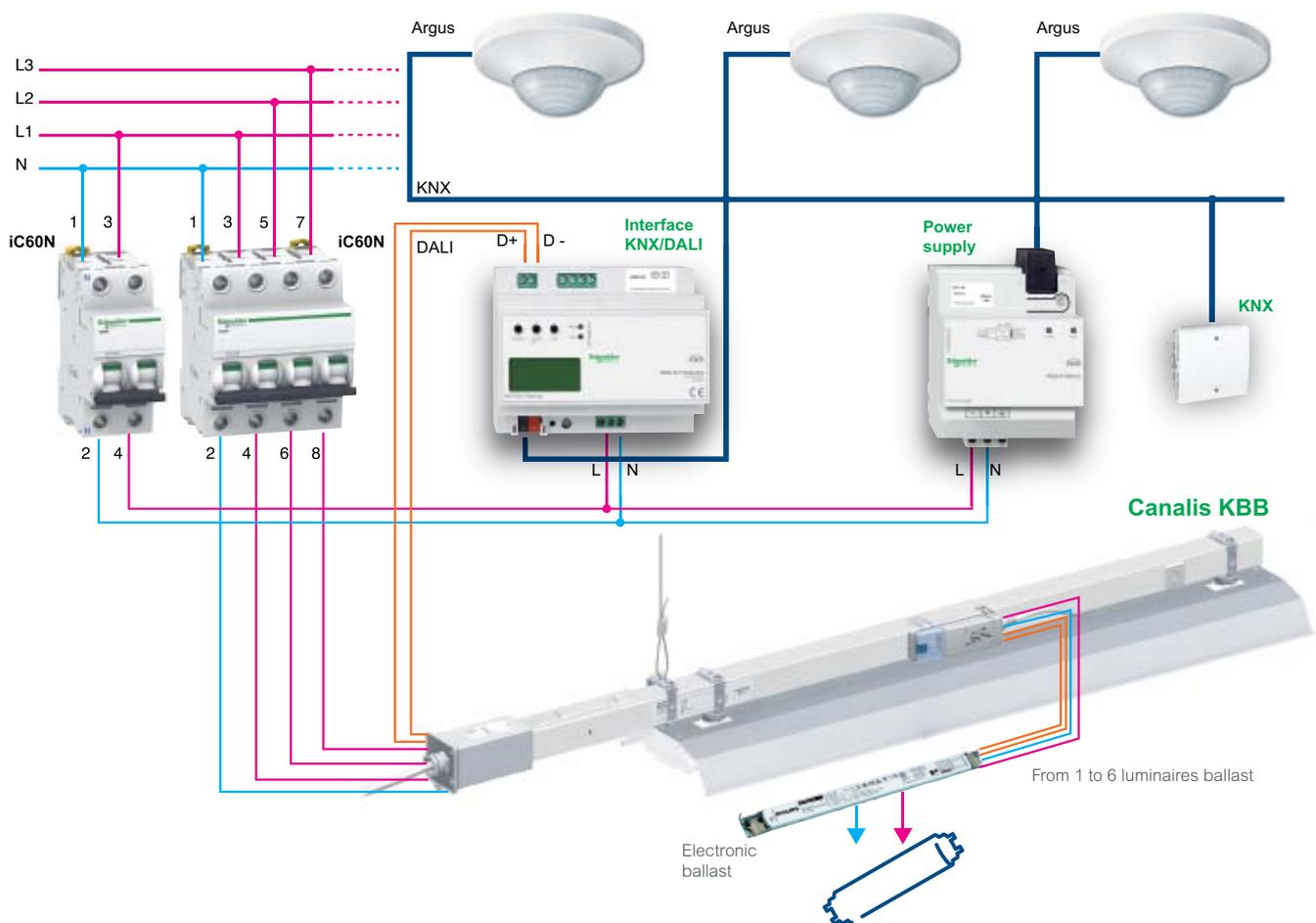
Specifications

The lighting management system used consists of a decentralized distribution system incorporating a DALI communication bus connected to a Building Management System. It performs control of the luminaires by area, and allows the creation of lighting scenarios according to the occupants' hours of presence and the extinguishing of unoccupied areas.

Formed of prefabricated elements with tap-offs, it offers great flexibility of installation and is completely scalable.

Connections require no tools and can prevent any risk of a connection error.

Solution diagram



Products used

Product	Description	Unity	Cat. no.
Canalis KBB	40 A straight element (with communication bus)	-	KBB40ED4303TW
Canalis KBB	40 A power supply box	1	KBB40ABG4TW
Canalis busbar trunking	Fasteners	-	KBA40ZFUW
Canalis busbar trunking	Tap-off connectors	-	KBC16DCB21+ KBC16ZT1
KNX	KNX local switch	1	-
KNX	KNX power supply	-	-
KNX	DALI/KNX gateway	-	-
Argus	Argus presence detector	3	-
iC60N	1P+N C6 A circuit breaker	1	-
iC60N	3P+N C40 A circuit breaker	1	-