Lighting management for a university

Optimize energy consumption and improve operation flexibility

iATLc+c

Customer case

The university facility manager wants to achieve savings on lighting consumption for this building of several floors.

Each room should be controlled separately. A manual control shall be also possible for each floor.

The building light should be turned off automatically when the university is closed.

The light in one room can be switched on again (for maintenance purposes, or exceptional events like late conferences or meetings) and will remain switched on until the next extinguishing order.

Benefits

- **Ease of installation:** the centralized function incorporated in the impulse relay can reduce the space requirement in the switchboard.
- **Simple automatic control solution:** the IHP+ 1c programmable time switch has a user-friendly interface, an impulse control mode and a large number of possible switching operations.
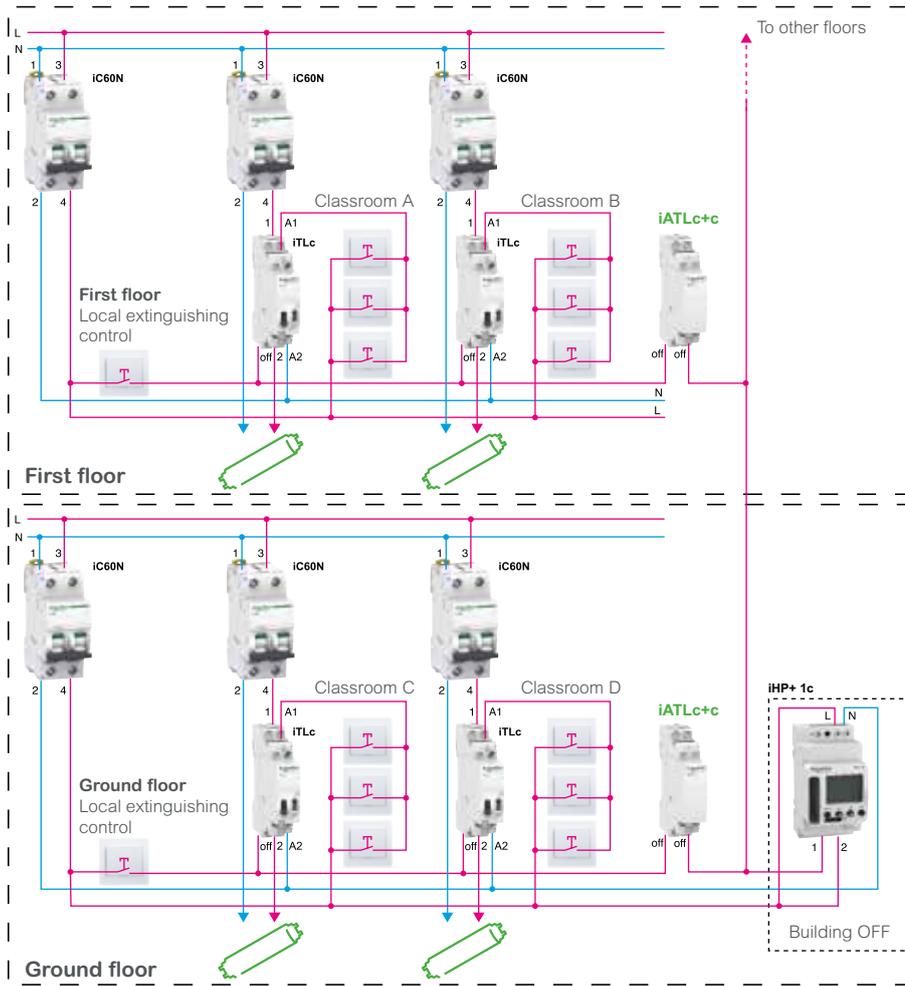
Our recommendation

The use of an iTLc impulse relay ensures the control of a lighting circuit via dedicated push buttons for each classroom. It also makes it possible to receive a lighting extinguishing control order for the complete floor.
In addition, one iATLc+c auxiliary for each floor allows extinguishing of all the building's lighting.
The IHP+ 1c ensures automatic extinguishing of the entire building by impulse control.

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Solution

Diagram

To other floors

First floor

iC60N   iC60N   iC60N

Classroom A   Classroom B   iATLc+c

iTLc   iTLc

First floor
Local extinguishing control

Ground floor

iC60N   iC60N   iC60N

Classroom C   Classroom D   iATLc+c   iHP+ 1c

iTLc   iTLc

Ground floor
Local extinguishing control

Building OFF

Specifications

- The lighting solution must be optimized in terms of space requirements.
- No special skills should be required for configuration.
- The lighting control should be performed independently, per room, per floor and for the whole building.
- The general lighting switch off should be performed through an automatic impulse control order generated when the building is closed and then repeated every half-hour.

Products used			
Product	Function	Quantity	Reference
Acti9 iC60N 1P+N	MCB	6	Depend on rating
Acti9 iATLc+c	Multiple-level centralized control auxiliary	2	A9C15410
Acti9 iTLc	16 A centralized-control impulse relay	4	A9C3381
Acti9 IHP+ 1c	Programmable time switch	1	CCT15551

More about iATLc+c

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