

Save energy by optimising lighting in different areas of a holiday village

“ I want to optimise the lighting in different areas of my holiday village so that I can make substantial savings, but still ensure my customers' comfort. I want to be able to control the lighting from each of my control stations, situated at various locations in the village ”

The solution:

- Includes a system that controls the times at which the lighting is switched on and off and touch screens used to view and control the circuits.
- The solution is flexible: the sports areas lighting can be turned off remotely without users being able to turn it back on, whereas customers are allowed to switch the lighting on in other areas.
- It is simple to install and future upgrades can easily be envisaged.

That is why the following equipment is used:

- Magelis touch screens for the MMI.
- A Xenta 701 controller programmed to control the lighting conditions (time ranges).
- A Modbus field bus connecting each switchboard to the Xenta 701 and to the Magelis screens.
- Prisma G switchboards are installed indoors and PLA Universal switchboards are installed outdoors.
- Each switchboard has an Acti 9 Smartlink which is used to connect the switchboard devices to the Modbus network.
- The devices are mainly Reflex iC60 which provide protection (circuit breaker function) and control the circuits (contactor function) and they can be directly connected to the Acti 9 Smartlink. The different operating modes of the Reflex iC60 are used to configure the priorities between the different control inputs.
- Thus, for zone 1 of the sports areas, the Reflex iC60, combined with an iACT24 connected to the Acti 9 Smartlink, can be used in mode 2 to switch the lighting off remotely, with no possibility of its being switched on again locally.
- And it suffices to use the Reflex iC60, configured in mode 1, for the other zones.



For the end user

> **Peace of mind:** for my needs, I have been offered a solution that is easy to install and upgrade, which is reassuring.

> **Comfort:** from the comfort of my control station, I can control and be aware of the status of a zone (on or off). Holiday village users can switch on the lighting in an area where it has been switched off, when they have permission to do so. And to ensure that the sports facilities are noise-free areas, they are not allowed to switch the lighting on late in the day.



Measure

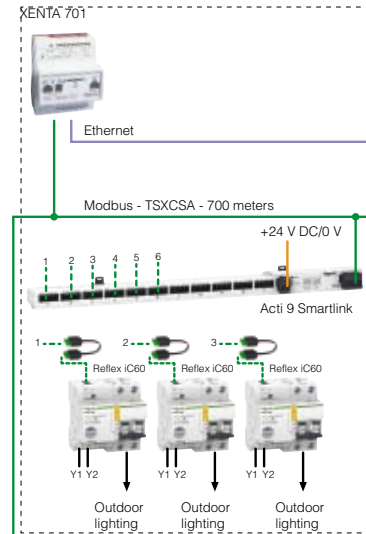


Reduce energy consumption

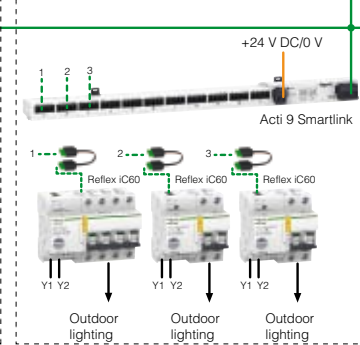


Reduce energy costs

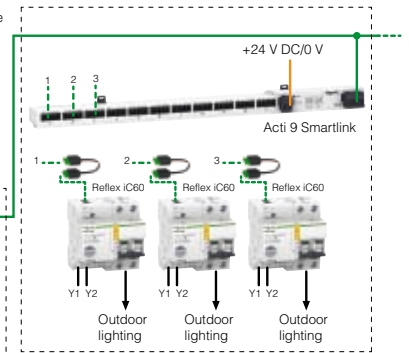
Building C1



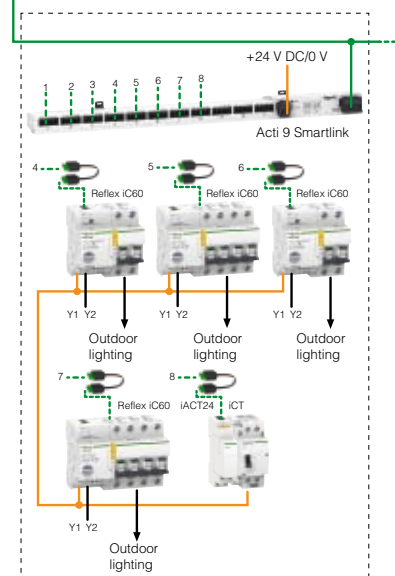
Building C2



Swimming pool



Zone 1



For professionals

- Simple and economical to install: thanks to a Modbus cable between switchboards, instead of a multitude of electric cables.
- Easy to maintain, thanks to good, safe switchboard cabling legibility, as the Reflex iC60 can be locked open with the integrated padlock.
- Easy-to-install extensions for cabling and integration into the existing system.



Acti 9 Smartlink can very simply connect all the switchboard equipment with a supervision and automatic control system

- Rail mounting, with a row of devices.
- Easy, fast wiring, thanks to 4 types of prefabricated connections and their one-click plug-in connectors.

- 11 channels, to supervise and monitor the Reflex iC60 devices managing lighting.
- Connected to iACT24, Acti 9 Smartlink controls the iCT contactor and obtains feedback from its open/closed position.

The Reflex iC60 integrated-control circuit breakers combine protection, disconnection and remote control functions in a single device.

- Remote and/or local control by latched type or pulsed type orders according to 3 modes.
- Remote indication by O/C and auto/OFF floating/neutral contacts.

