

# Improving management of a public lighting system in a town

RCA iC60, remote control

RCA iC60 with Ti24 interface



## Customer needs

The quality of lighting is of prime importance for a town. This installation provides management of public lighting and a power supply for the power sockets distributed over the public space to allow the holding of special events (markets, street entertainment).

The objective is to ensure the following functions by remote management:

- switching public lighting on and off,
- energizing or de-energizing a power socket circuit,
- information on equipment operating states, so as to plan repair operations,
- remote restarting following an electrical fault.

In the event of a remote management failure, a function designed to ensure improved dependability of service is performed by a local PLC for switching the public lighting on and off.

## Users / customer benefits

- **simplicity:** automated, secure solution for switching the power supply on and off, indications on the front panel of the product and remote signaling,
- **safety:** padlocking possible without any additional accessory,
- **continuity of service:** enabling of automatic reclosing upon an electrical fault,
- **energy efficiency:** no permanent consumption because the RCA iC60 remote control is a bistable actuator.

## Proposed solution

### RCA iC60, remote control

The functional units are installed in street cabinets along the roads, or in equipment rooms located near the area to be powered.

The RCA control device allows the PLC to switch off the power supply by actuating the iC60 device.

Each cabinet has a local automatic control system interfacing with the central system.

The RCA remote control is configured in 1-A mode to give priority to the management PLC and enable reclosing of the circuit breaker following a fault.



Public lighting system in a town

## Preferred application

- infrastructure,
- industry, large tertiary,
- public lighting,
- power distribution,
- circuit load shedding, etc.

Remote management + automatic control = quality of service + savings

## Specifications

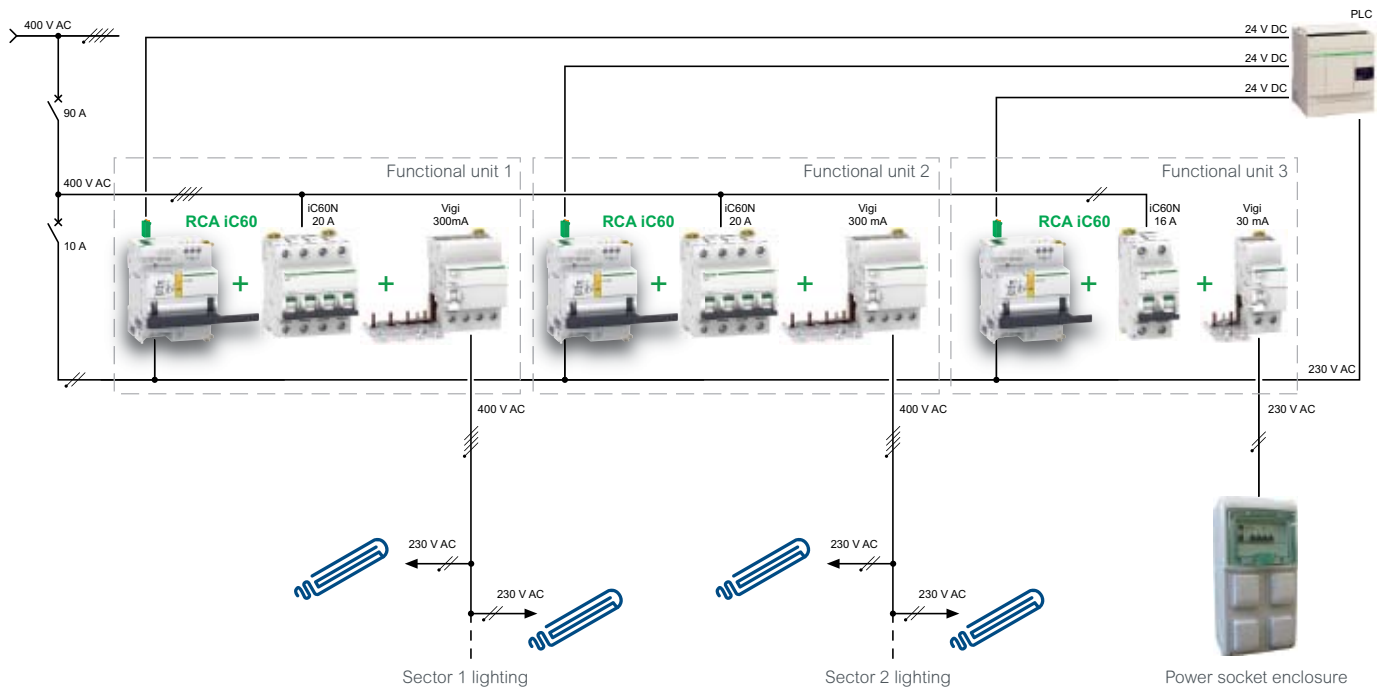
The lighting and power socket feeders must be powered by a modular circuit breaker combined with a remote control and an earth leakage protection auxiliary.

This circuit breaker is remote controlled automatically via a connection with a PLC without any additional interface.

The state of the circuit breaker (open/closed) and the presence of an electrical fault must be indicated at the PLC level.

After tripping of the protective device, remote reclosing is enabled.

## Solution diagram



## Products used

Product	Description	Unity	Cat. no.
RCA iC60	230 V AC 50 Hz remote control with Ti24 4P interface	2	A9C70124
iC60N	C20 A 4P circuit breaker	2	-
Vigi iC60	300 mA 4P earth leakage protection device	2	-
RCA iC60	230 V AC 50 Hz remote control with Ti24 2P interface	1	A9C70122
iC60N	C16 A 2P circuit breaker	1	-
Vigi iC60	30 mA 2P earth leakage protection device	1	-

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