

Improving management of a public lighting system in a town

RCA iC60 with Ti24 interface

Remote & automatic management for higher quality of service and maintenance savings



Customer case

The quality of lighting power network is of prime importance for a town. The 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 case of a remote management failure, a function designed for better service continuity is performed by a local PLC for switching the public lighting on and off.

Our recommendation

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

The Remote Control Auxiliary (RCA) device allows the PLC to switch off the power supply by actuating the Acti9 iC60 circuit breaker.

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

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

Benefits

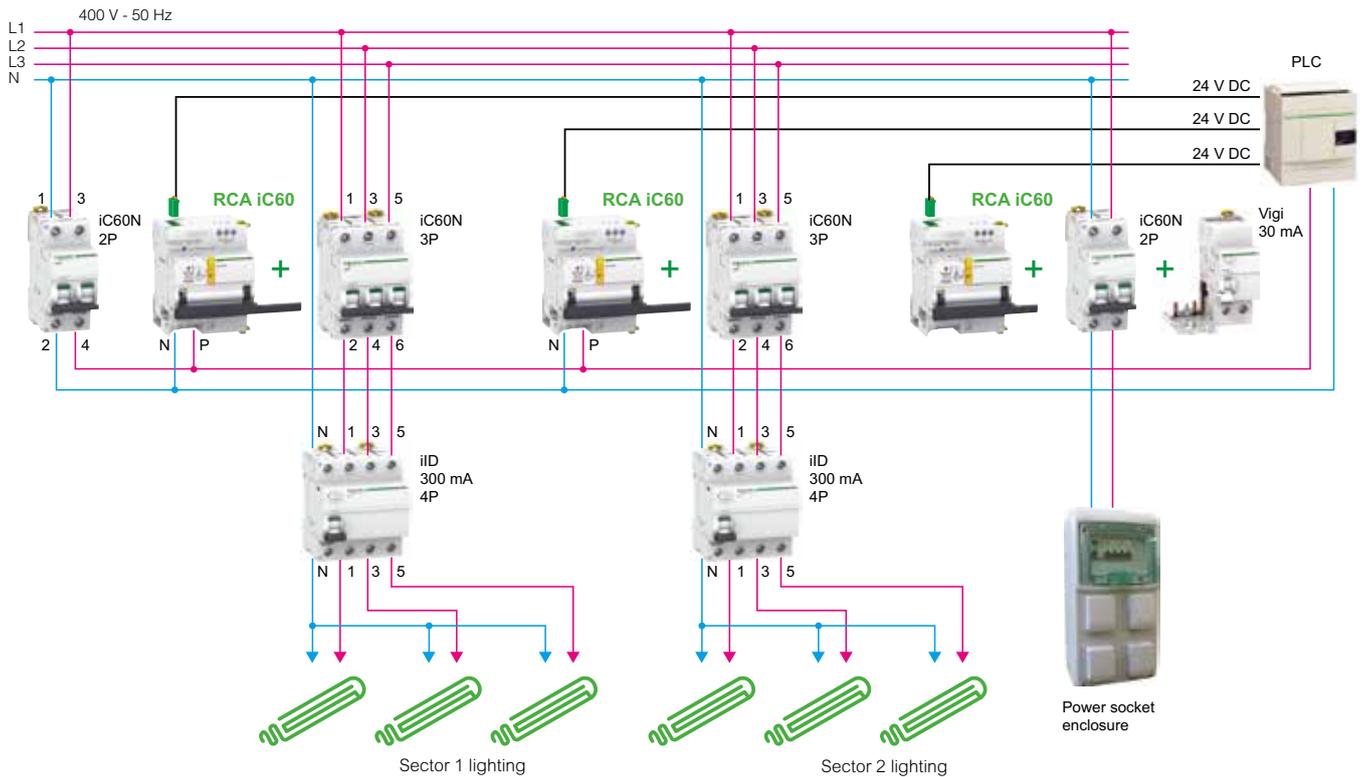
- **Simplicity:** automated, secure solution for switching the power supply on and off, indications on the front panel of the product and remote signaling.
- **Protection:** padlocking possible without any additional accessory.
- **Continuity of service:** enabling of automatic reclosing upon an electrical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

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Solution Diagram



Note: to insure closing of neutral before phases the control of lightings must be realized by RCA and not by iID.

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.

Products used			
Product	Function	Quantity	Reference
Acti9 iC60N	MCB 3P	2	Depend on rating
Acti9 iC60N	MCB 2P	1	Depend on rating
Acti9 RCA iC60	230 V AC remote control aux with Ti24 for iC60 3P-4P	2	A9C70124
Acti9 RCA iC60	230 V AC remote control aux with Ti24 for iC60 1P-1PN-2P	1	A9C70122
Acti9 iID	4P 300 mA RCCB	2	Depend on rating
Acti9 Vigi iC60	2P 30 mA earth leakage protection device	1	Depend on rating

More about
Acti9 RCA iC60



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