

# Controlling power off for a hotel room by keycard

Reflex iC60, integrated-control circuit breaker

Reflex iC60 with Ti24 interface



## Customer needs

A hotel room is a private space yet remains under the responsibility of the operator. Ensuring customer safety and comfort while optimizing profitability are the main concerns of a hotel manager.

To limit electrical risks during periods of non-occupancy of the room and reduce electricity consumption, the proposed system allows all the electrical circuits used by the customer (power sockets, lighting) to be powered off except for the facilities that must be left powered up for reasons of comfort (refrigerator, air conditioning).

## Users / customer benefits

- **safety:** no unwanted temperature rise, which allows installation in a false ceiling,
- **energy efficiency:** no permanent consumption because the Reflex iC60 is a bistable product,
- **efficiency:** no undesirable noise in steady-state conditions, unlike a contactor,
- **simplicity:** simplicity of the control circuit thanks to the Ti24 interface which provides a direct link with the room's PLC.

## Proposed solution

### Reflex iC60, integrated-control circuit breaker

The room's power supply is provided by a distribution board fastened horizontally in the false ceiling at the room entrance. This arrangement does not allow the use of a modular contactor.

A Reflex iC60 integrated-control circuit breaker can switch off the circuits' power supply when the keycard has been removed from its reader located at the entrance to the room.

Customer presence and electrical fault information is reported to the room's PLC without any additional interface. This information is then transmitted to the supervision room via a communication bus.



Hotel room by keycard

## Preferred application

- hotels,
- supermarkets,
- factories,
- universities,
- offices.

Remote management + presence =  
customer comfort + safety

## Specifications

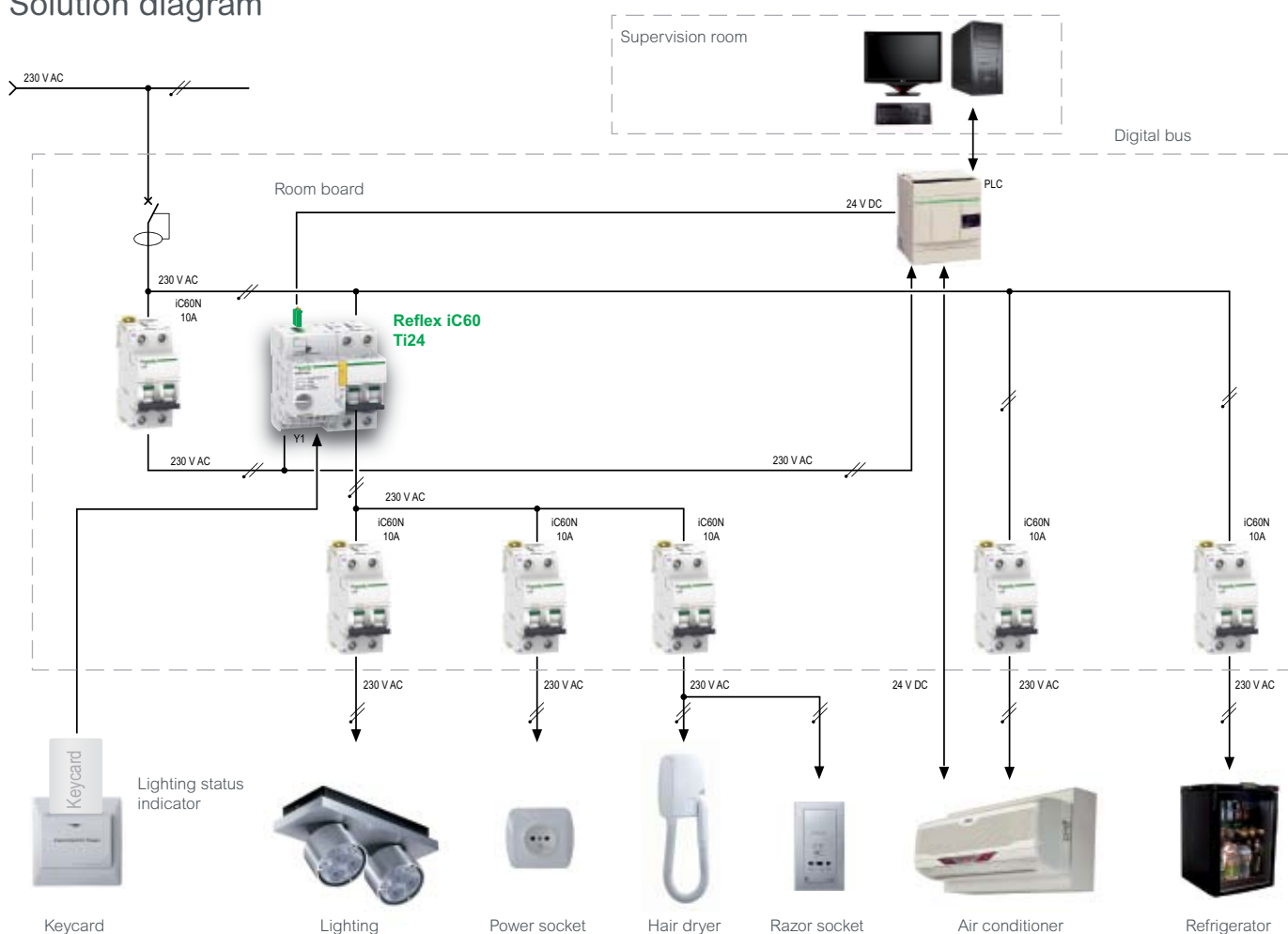
The non-priority loads must be powered via an integrated-control circuit breaker which should be able to operate in all positions to allow installation in a false ceiling.

The integrated-control circuit breaker can be controlled by the presence of the keycard in its reader.

The circuit breaker state (open/closed) shall be indicated at the PLC level.

The solution must generate no noise or unwanted temperature rise.

## Solution diagram



## Products used

Product	Description	Unity	Cat. no.
Reflex iC60N	2P C-curve 25 A 230 V 50 Hz integrated-control circuit breaker with Ti24 interface	1	A9C62225
iC60N	C10 A 2P circuit breaker	5	-
iC60N	C16 A 2P circuit breaker	1	-

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