



Control the power of a hotel room with keycard

Reflex iC60N



“Remote management & presence detection improve customer comfort”

Customer case

A guest room is a private space that remains under the responsibility of the manager. Ensuring the security and comfort of the guest while optimizing profitability is the hotel manager’s main concern. In order to limit electrical risks during periods when the room is unoccupied and to reduce electricity consumption, the requested system switch off all electrical circuits used by the customer (power outlet, lighting). Power will stay on for the other appliances which must be powered for comfort reasons (refrigerator, air conditioning).

Benefits

- **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**: the Ti24 interface provides a direct link between the control circuit and the room's PLC.

Our recommendation

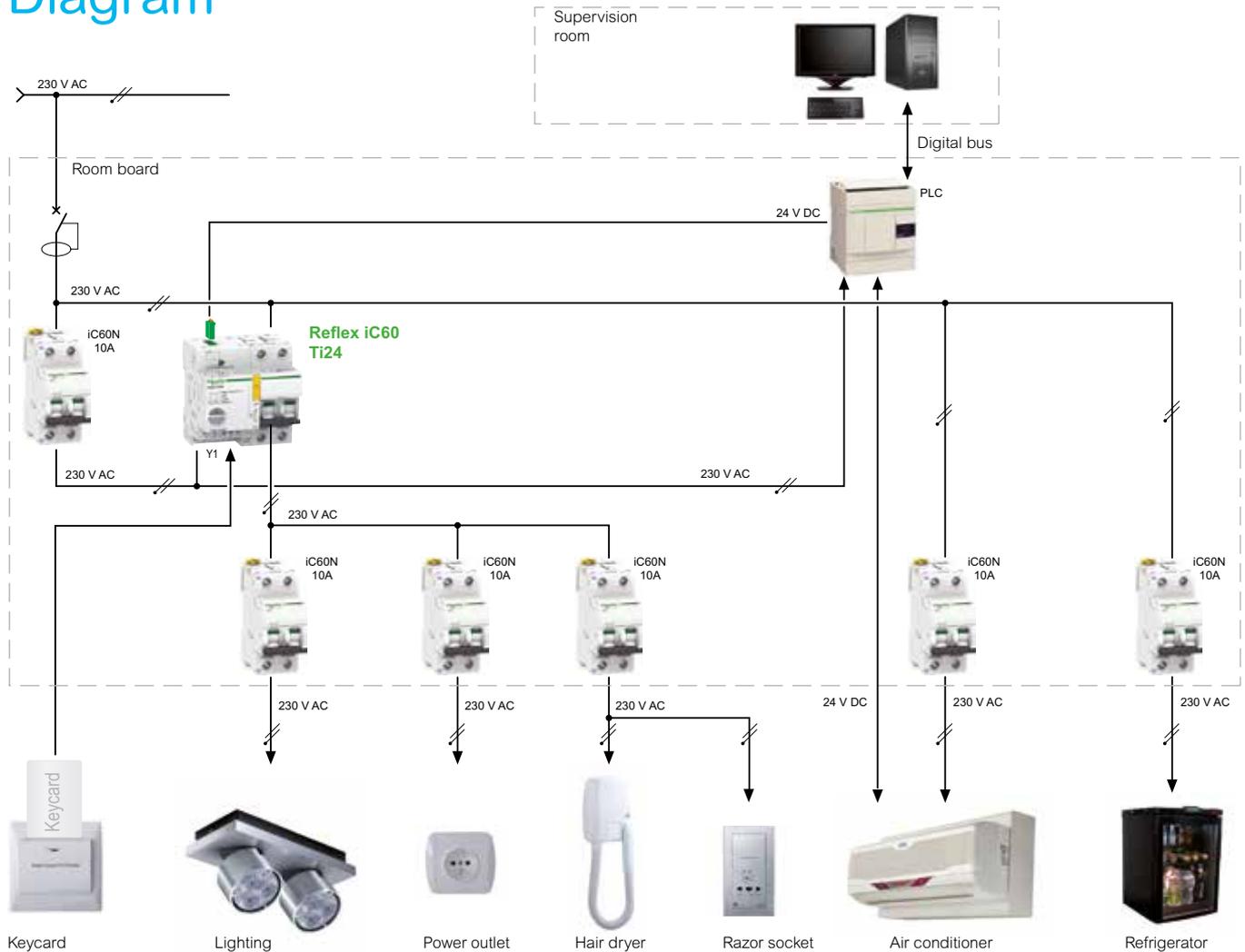
The room's power supply is provided by a distribution board fastened horizontally in the false ceiling at the room entrance. This arrangement does not allow the use of a modular contactor. A Reflex iC60 integrated-control circuit breaker can switch off the circuits power supply when the keycard is removed 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.

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Solution Diagram



Specifications

- The non-priority loads shall be powered via an integrated-control circuit breaker which shall be able to operate in all positions to allow installation in a false ceiling.
- The integrated-control circuit breaker shall 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 shall generate no noise or unwanted temperature rise.

Products used			
Product	Function	Quantity	Reference
Acti9 iC60N 2P	MCB	6	Depend on rating
Acti9 Reflex iC60N	2P C-curve 25 A 230 V 50 Hz integrated-control circuit breaker with Ti24 interface	1	A9C62225

More about
Reflex iC60N



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