Managing the lighting of a convenience store or superette

Lighting in the right place at the right time thanks to pre-cabling and time programming

Customer case

The manager of a convenience store wants to automate its lighting system. His store comprises two separate lighting areas: storage and sales.

In addition, the lighting must be optimized: one luminaire out of three during delivery, after closing and at cleaning time, while full lighting must be ensured during opening hours.

The layout of the shelves in the sales area could be reorganized, and the reallocation of luminaires should be performed with minimum works.

Our recommendation

The system chosen is 25 A KBA Canalis busbar trunking, and the luminaires shall be installed directly under Canalis KBA by means of KBA40ZFUW fasteners.
An Acti9 IHP+ 2c clock combined with contactors ensures lighting scripting, and a manual override control of the lighting will be performed from the electrical switchboard. The alteration of the installation during reorganization of the shelves will be simplified by the modularity and extreme ease of assembly and disassembly of the Canalis components.

Benefits

- **Simplicity and speed of execution**: from design to installation, no constraints, "Canalis" adapts to all store configurations.
- **Attractiveness**: the white-colored Canalis components ensure consistency with the colors of the luminaires.
- **Cost optimization**: automation of the installation reduces electricity consumption.
- **Flexibility**: no works required when reorganizing the store or changing the sales area.
Solution

Diagram

Specifications

- The decentralized lighting electrical distribution architecture shall be prefabricated.
- The lighting layout should possibly be reorganized without altering the electrical installation.
- A busbar trunking system should ensure simplification of office rearrangement.

<table>
<thead>
<tr>
<th>Products used</th>
<th>Function</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canalis KBA</td>
<td>25 A straight element</td>
<td>-</td>
<td>KBA25ED4303W</td>
</tr>
<tr>
<td>Canalis KBA</td>
<td>25 A power supply box</td>
<td>1</td>
<td>KBA25ABG4W</td>
</tr>
<tr>
<td>Canalis KBA</td>
<td>Fasteners</td>
<td>-</td>
<td>KBA402FUW</td>
</tr>
<tr>
<td>Canalis busbar trunking</td>
<td>Tap-off connectors</td>
<td>-</td>
<td>KBC10DCS101, 201, 301</td>
</tr>
<tr>
<td>Acti9 iC60N</td>
<td>MCB 2P</td>
<td>1</td>
<td>Depend on rating</td>
</tr>
<tr>
<td>Acti9 IHP+ 2c</td>
<td>Programmable time switch with 2 output contacts</td>
<td>1</td>
<td>CCT15553</td>
</tr>
<tr>
<td>Acti9 iC60N</td>
<td>MCB 2P</td>
<td>3</td>
<td>Depend on rating</td>
</tr>
<tr>
<td>Acti9 iCT</td>
<td>25 A 2P contactor</td>
<td>3</td>
<td>Depend on rating</td>
</tr>
</tbody>
</table>

More about KBA

Scan or click on QR code

se.com

Schneider Electric Industries SAS
35, rue Joseph Monier - CS 30323
F92506 Rueil-Malmaison Cedex

Document Number CA9SS038E ©2019 Schneider Electric. All Rights Reserved.
Life Is On Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies.