

Busbar trunking systems

Canalis[®]

In car parks

Application
datasheet



Merlin Gerin
Square D
Telemecanique

Schneider
 **Electric**
Building a New Electric World

Your needs

As a designer or operator of covered, underground or multistorey car parks, you seek to build or rehabilitate safe and pleasant areas in which users can drive easily despite limited space.

You are also obliged to comply with current regulations particularly in terms of ventilation of the building and fire protection, while optimising your installation and operational costs.

Comfort

Safety



■ Lighting is of utmost importance to make the user feel safe. For user comfort, lighting is adapted with various brightness levels depending on the zone in which he is driving (traffic lane, walkway, parking space, etc.).

■ Emergency lighting, signalling, intercom system, radio, videosurveillance all these functions contribute to the comfort and safety of users in a car park.

Time saving



■ For greater comfort and to save time, the user is guided by a guidance system to his parking space as soon as he enters the car park.

Service continuity

Multi-storey distribution



- To provide the necessary power to all storeys:
 - high power (lighting, emergency lighting, elevator, toll system, etc.)
 - low power (public address system, fire detection, camera and intercom, etc.)

Energy management

Optimisation of consumption



■ As lighting consumes a lot of power in car parks, energy control calls for the management of lighting by zones, presence detection or according to time slots.

Our Solutions

The advantages of a range based on 50 years of experience in prefabricated busbar trunking systems

■ **Safety** : Our prefabricated busbar trunking systems are ROHS-compliant (Restriction of hazardous substances), halogen-free, IP55 and sprinkler test certified. They are equipped if necessary with fire barriers.

■ **Clarity / aesthetics**: Our prefabricated busbar trunking systems give your installation sobriety and compactness. They are available in white, for enhanced aesthetic appeal.

■ **Reliability and service continuity**: Our prefabricated equipment complies with IEC standard CEI 60439-2 and are certified by ASEFA laboratory. Maintenance tasks are carried out without suspending power supply to your operation and are made easy by the plug and play system (light fittings are simply clipped onto their support).



■ Canalis KBA or KBB performs supply and support functions for the following equipment:

- Canalis KBL light fitting for lighting.
- Vehicle presence signalling LEDs, for the guidance system.

■ The KBL light fitting is pre-equipped with a connector and attachments for easy installation and maintenance.

■ Straight sections can be used for a more economical installation, if tap-off outlets are not necessary.

■ Flexible sections are used to avoid obstacles.

■ Low current cables are routed in the Canalis system cable tray.



■ Canalis KS ensures rising main distribution of energy to all storeys, insulated from one another by fire barriers.

Use of KS Canalis ensures a competitive installation that will adapt to changing requirements.

Elastic electrical contacts do not require any maintenance.



■ Canalis KBA offers a high degree of flexibility in the production of various lighting zones, which can be controlled independently phase after phase, for progressive lighting.

Application example

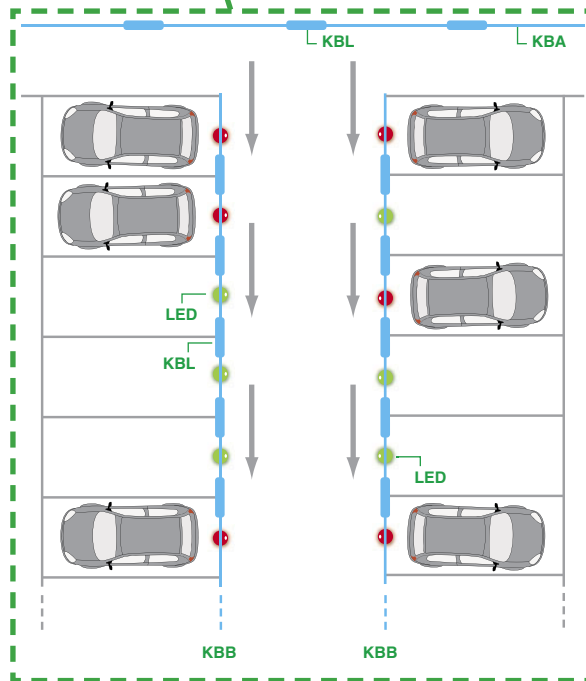
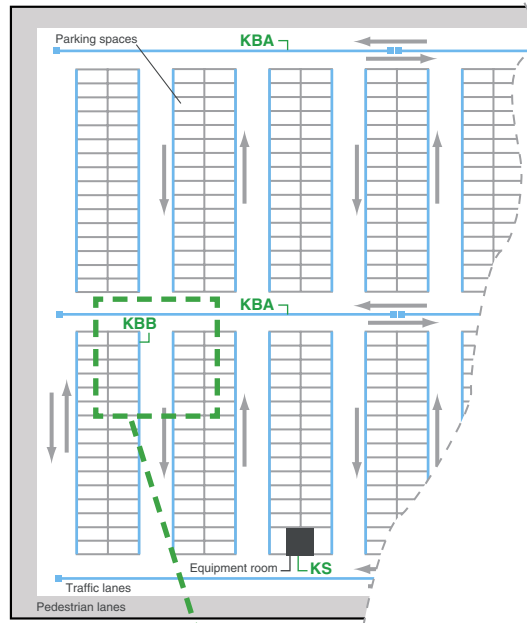
A multi-storey underground car park

The car park considered

- 1344 spaces in total
- 3 levels with 448 spaces
- 100 m x 114 m per storey

Equipment installed for the 3 levels

- 3360 m of canalis KBB which provides mechanical support and power supply:
 - 672 dust and damp-proof KBL light fittings (2 x 58 W) on a first circuit for lighting parking spaces and traffic lanes
 - vehicle presence signalling LEDs, for guiding the user to the parking space, on a second circuit.
- 972 m of KBA for mechanical support and power supply of 198 dust and damp-proof KBL light fittings (2 x 58 W) for lighting the other traffic lanes.
- For distribution to different storeys: 9 m of Canalis KS rising main equipped with fire barriers, in the equipment room



The Canalis advantages

Thanks to its modular design, Canalis can be easily adapted to car park infrastructures and provides optimum lighting exactly where it is required.

Operations in the installation can be carried out in complete safety by maintenance staff, without disrupting the rest of the network.

As Canalis is prefabricated, mounting times are significantly reduced when compared to a conventional electrical installation, ensuring the delivery of the worksite on time.

A comprehensive offer

A new path for your electrical installations

Canalis is part of a comprehensive offer of products that are perfectly coordinated to meet all medium and low power electrical distribution requirements. All of these products have been designed to work together: electrical, mechanical and communication compatibility.

The electrical installation is thus both optimised and has improved performance:

- better service continuity,
- increased personnel and equipment safety,
- guaranteed upgradeability,
- efficient monitoring and control.

All the advantages in terms of know-how and creativity for achieving optimised, safe, upgradeable and compliant installations are therefore available to you.

Schneider Electric products

Prefabricated busbar trunking systems

- **Canalis KBA and KBB:** trunking system for lighting and low power loads
 - Nominal current 25 or 40 A.
 - Degree of protection IP55, halogen-free, ROHS-compliant, sprinkler test certified
 - Number of live conductors: 2 to 4 for KBA and 2 to 8 for KBB.
 - Length of sections: 2 and 3 m.
 - Straight transport sections or with tap-off outlets at regular intervals (0.5 m to 1.5 m).
 - Sections also available in white RAL 9010
 - Flexible sections.
 - Tap-off connectors: 10 and 16 A.
 - Maximum distance between fastening points: 3 m for KBA, 5 m for KBB.
 - Cable trays and fastening accessories for low current.
 - Control bus



Canalis KBA with KBL

- **Canalis KBL industrial light fittings**

- Power: 2 x 35 W, 2 x 58 W, 2 x 80 W.
- Pre-equipped with tap-off connector and fastening system.
- Degree of protection IP20 to IP55



Canalis KS riser

- **Canalis KS riser** to feed low voltage sub-distribution switchboards

- Nominal current: 100 to 1000 A.
- Degree of protection IP55, halogen-free, ROHS-compliant, sprinkler test certified.
- 4 live conductors.
- Length of sections: 2 and 2.5 m.
- Tap-off outlet on each side at regular intervals (0.5 m to 1 m).
- Connectors and tap-off units: 25 to 400 A.
- Fire barriers.

Electrical switchboards

- **Prisma Plus cubicle:** main switchboard

- Current rating I(e) at 35°C: 3200 A.
- Permissible short-time rated current I_{cw}: 85 kA rms/1s.
- Degree of protection IP30 to IP55

- **Prisma Plus enclosures:** sub-distribution switchboards

- Current rating I(e) at 35°C: 630 A.
- Permissible short-time rated current I_{cw}: 25 kA rms/1s.
- Degree of protection IP30 to IP55.



Prisma Plus cubicle

Prisma Plus enclosure

Other applications

- Livestock production buildings
- Logistic centres
- Greenhouses
- Cruise ships
- Garages

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