

# Busbar trunking systems

*Canalis*<sup>®</sup>

In garages

Application datasheet



Merlin Gerin  
Square D  
Telemecanique

**Schneider**  
 **Electric**  
*Building a New Electric World*

# The customer's needs

## For new constructions, upgrading or rehabilitation

- Car garages, car dealers, etc.

### Lighting



- Ensure sufficient lighting to carry out the various tasks. The level of illumination required may vary greatly according to the detail of the work performed and the size of the parts handled.

### Supplying moving loads



- Supply a variety of equipment: compressors, balancing machines, hand-held tools, inspection instruments, etc.
- Frequent additions to or modifications of this equipment.
- Continuous re-implementation of equipment.

### Supplying fixed loads



- Supply vehicle lifts and rolling slat blinds of doors, ventilation systems, etc.

# The Canalis solutions

## The advantages of a range based on 30 years' experience

- Upgradeable: very easy addition of components and modification of network, to allow for changes in installation and new equipment.
- Continuity of supply: simplified maintenance allowing addition, displacement and replacement of live loads, without interfering with the activity.



**Canalis KBA** supports and supplies light fittings. It satisfies the following needs:

- Compliance with deadline: installation mounting time is cut by 3
- Cost reduction

With Canalis, the installation is easily upgraded over time. Moreover, you can modify the illumination levels in event of operating change.



**Use of Canalis KN** allows:

- In-depth modification of the installation. Addition or removal of loads takes place with power on, without requiring additional cables to be laid.
- The new offer of enclosures equipped with power sockets ensures rapid connection of tools equipped with standard sockets.



**Canalis KS** allows:

- Cabling times to be cut by 3,
- Replacement of faulty motors with power on without disturbing the rest of the installation,
- Guaranteed reliability of connections thanks to elastic contacts.

# Application example

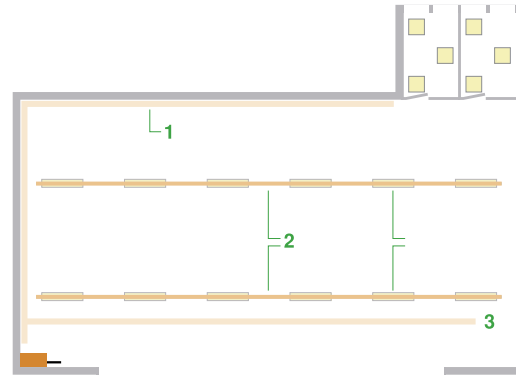
## A car garage

### Specific features

- Surface 200 m<sup>2</sup> (20mx15m)
- Loads:
  - 3 vehicle lifts
  - 1 compressor
  - 1 balancing machine
  - hand-held tools
  - two lighting lines using fluorescent tubes

### Equipment installed

- In power distribution
  - 1 x 15 metre KS line (3)
  - 1 x 30 metre KN line (1), wall-mounted, with 10 single-phase enclosures, 3 three-phase enclosures and 5 power socket enclosures.
- In lighting:
  - 2 x 18 metre KBA lighting lines (2) each equipped with six 2x58W industrial KBL light fittings.



■ Prisma Plus System G  
Electrical distribution switchboard

## The Canalis advantages

Thanks to its modularity, Canalis adapts to the garage's infrastructure. It ensures with ease production of optimum lighting exactly at the point required.

The installation is upgradeable and allows for re-arrangements inside the garage or simply the needs of progressive investment.

Maintenance is simplified: faulty lamps can be replaced with power on and at any time.

Mounting times are cut by 3 with KBA lines, and by 2 for lighting as a whole.

The manufacturer commits to a warranty of more than 10 years.

# A comprehensive offer

## A new path for achieving your electrical installations

Canalis is part of a comprehensive offer of products that are perfectly coordinated to meet all medium and low voltage 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.

You therefore have all the advantages at hand in terms of know-how and creativity for achieving optimised, safe, upgradeable and compliant installations.

## The Schneider Electric products

### Prefabricated busbar trunking systems

■ **Canalis KBA:** rigid busbar trunking

- Nominal current 25 or 40 A.
- 2 to 4 live conductors
- Tap-off points every 0.5 to 1.5 metres.
- Tap-off connectors: 10 and 16 A.
- Degree of protection IP55

■ **Canalis KN:** rigid busbar trunking

- Nominal current 40 to 160 A.
- 4 live conductors
- Tap-off connectors and units: 16 to 63 A
- Tap-off points every 0.5 or 1 metre.
- Degree of protection IP55

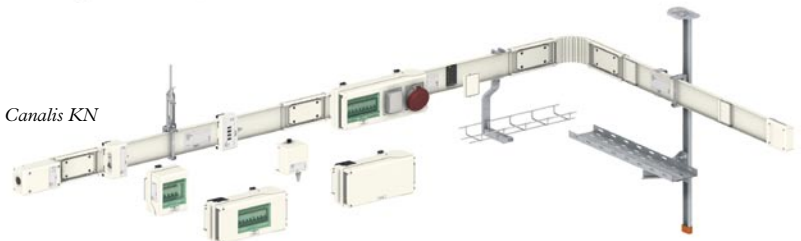
■ **Canalis KS:** rigid busbar trunking

- Nominal current 100 to 1000 A.
- 4 live conductors
- Tap-off points every 0.5 or 1 metre on each side.
- Tap-off connectors and units: 25 to 400 A
- Degree of protection IP55

Canalis KBA



Canalis KN



Canalis KS



Prisma Plus cubicle

Prisma Plus enclosure

### Electrical switchboards

■ **Prisma Plus cubicle:** main switchboard

- Rated operational current I(e) at 40°C: 3200 A
- Permissible short-term rated current I<sub>cw</sub>: 187 kA rms/1s.
- Degree of protection IP30 to IP55

■ **Prisma Plus enclosures:** subdistribution switchboards

- Rated operational current I(e) at 40°C: 630 A
- Permissible short-term rated current I<sub>cw</sub>: 25 kA rms/1s.
- Degree of protection IP30 to IP55

# Other applications

---

- Greenhouses
- Livestock production buildings
- Logistic centres
- Offices
- Hypermarkets
- Cruise ships
- Industrial workshops
- Flooring tile plants
- Electronic plants
- Car factories
- Trade fairs and exhibitions

---

## Schneider Electric Industries SAS

89 boulevard F. Roosevelt  
F - 92500 Rueil Malmaison  
France  
Tel.: +33 (0)1 41 29 85 00  
Fax: +33 (0) 1 41 29 89 01  
<http://www.schneider-electric.com>

As standards and equipment change from time to time, please ask for confirmation of the texts and images given in this publication.



This document has been printed  
on ecological paper

Publish by: Schneider Electric Industries SAS  
Layout by: Schneider Electric Industries SAS  
Illustrations by: Schneider Electric Industries SAS  
Printed by: