

Canalis

An Introduction to Canalis Busbar – Voltimum Webinar Monday 21st February 2022

1 Agenda:

WELCOME

What is Canalis

What Does Canalis offer?

Where would you find Canalis

The Benefits

Cable v Busbar

Sustainable

The Canalis offer:

1) Transactional Offer

2) Engineered Offer

Questions?

Life Is On

Schneider
Electric

1) WATCH: What is Canalis – Video

What is Canalis?

- Alternative electrical distribution system to cables
- Using either copper or aluminium core for distribution
- Encased in either a steel or resin case
- 1P+N to 3P+N options
- Tap-off points along the bars for feeding loads



What does Canalis offer?

- Flexible and scalable solution
- 20A to 6300A
- More efficient and more economical electricity distribution
- Type tested products
- IP Rated
- Power measurement and control
- Safe and Sustainable



Where would you find Canalis Busbar?

- Buildings
- Data centers
- Hotels & Restaurants
- Hospitals
- Supermarkets
- Car Industry
- Aerospace
- Framing
- Airports
- Marine
- Underground
- Stadiums



Data & Telecom



Retail



Hospitality



Industrial building



Office



Health



Other

Canalis Busbar - Benefits

The use of cables for connecting power through an installation has been a proven solution for many years

However:

There are now compelling arguments for the replacement of cable with BUSBAR.

■ Installation Time

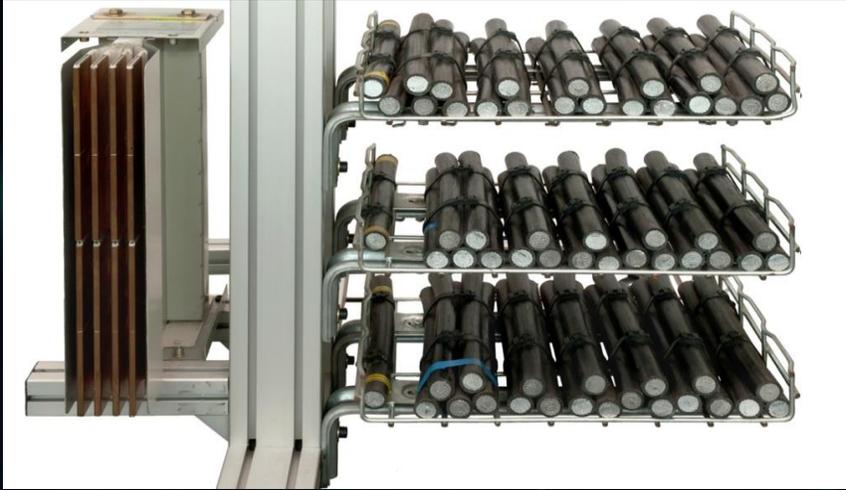
■ Space savings

■ Futureproofing

■ Cost savings

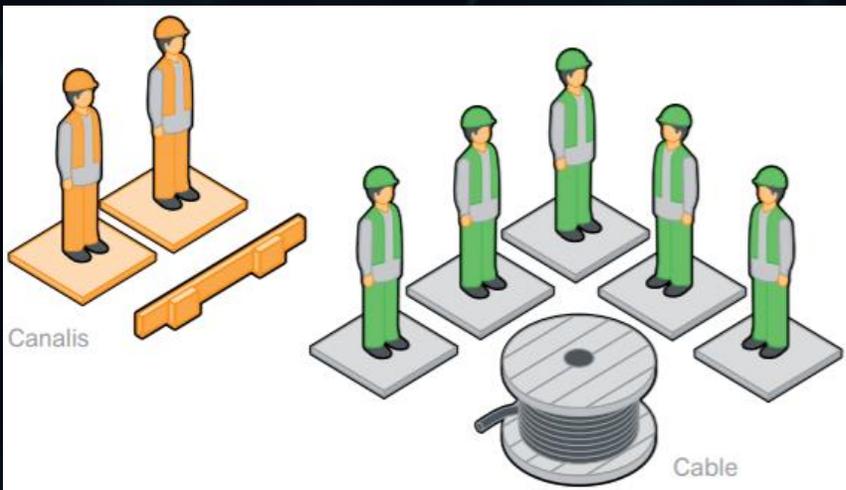
■ Monitoring

Canalis Busbar v Cable



Busway 4000A
Canalis KTC

42 cables Cu 240mm²
(4x10// active cond + 2 // PE)



Busbar

- Small footprint
- Brackets only
- 90° bends
- T Junctions
- Easier to install
- Less Maintenance

Cables

- Multiple Cables,
- Basket or Tray Required
- Large bending radius (normally 6X's the diameter)
- Hard to manipulate

Canalis Busbar - Sustainable



The composition of Canalis ranges
Guarantees

- Meets our green premium
- 95% recycling rate

But the Canalis offers go
one better...

If a site is being restructured or enlarged

Products can simply be removed and reinstalled in their
new environment.

BUSBAR: Key Components

Providing a 'complete busbar solution' is as simple as counting the main components on one hand....

- 1 BUSBAR LENGTHS (Transition or Distribution)
- 2 FEED UNIT & END CAP
- 3 FIXING BRACKETS
- 4 TAP OFFS
- 5 ACCESSORIES



BUSBAR: Key Components

BUSBAR
LENGTHS



FEED UNIT



FIXING BRACKETS



'TAP OFFS'



1) TRANSACTIONAL OFFER

TRANSACTIONAL OFFER

Transactional Offers

Standard offer the shelf busbar, tap-offs and accessories

Easily be order from our distribution network.

Easily installed throughout single story or single floor buildings

Where there are no special design requirements – made to measure lengths.

Lighting Busbar

KB



Copper Conductors up to 40A

Low Power Busbar

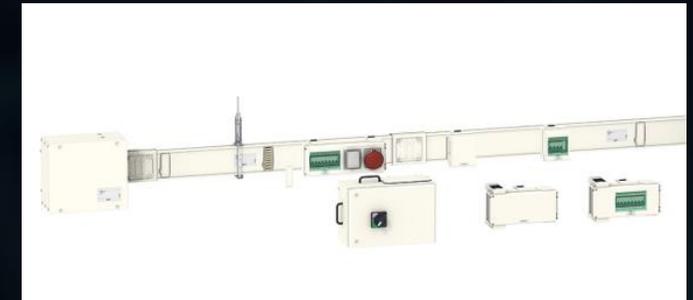
KN



Aluminum Conductors up to 160A

Medium Power Busbar

KS



Aluminum Conductors 100A - 1000A
Copper Conductors 160A - 800A



Canalis KB Busbar

Lighting Busbar

Canalis KB Range

KBA/KBB

Prefabricated busbar trunking for
lighting systems up to 40A

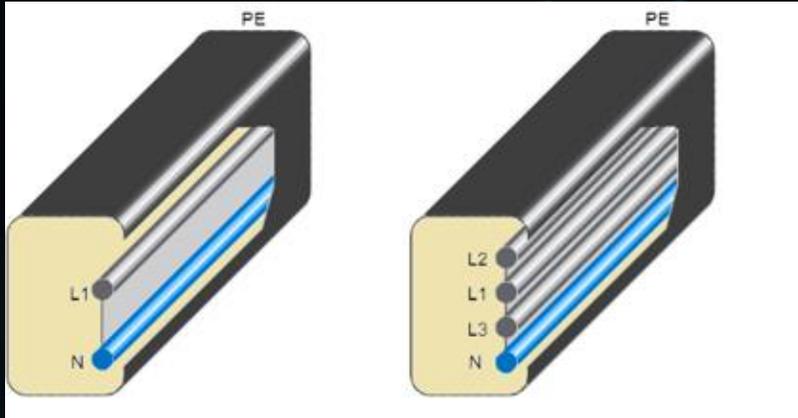
Technical Characteristics

- ✓ Busbar trunking Rated Current: 25A & 40A
- ✓ Length of busbar trunking sections: 2m & 3m
- ✓ Tap-off units rated current: 10A & 16A
- ✓ Number of circuits: Single or Dual (2 or 4 conductors)
- ✓ Rated insulating voltage: 690V
- ✓ Protection Index: IP55
- ✓ Surface Treatment: RAL 9001
- ✓ Communication: conductor cable i.e. DALI or KNX



Canalis – KB Range

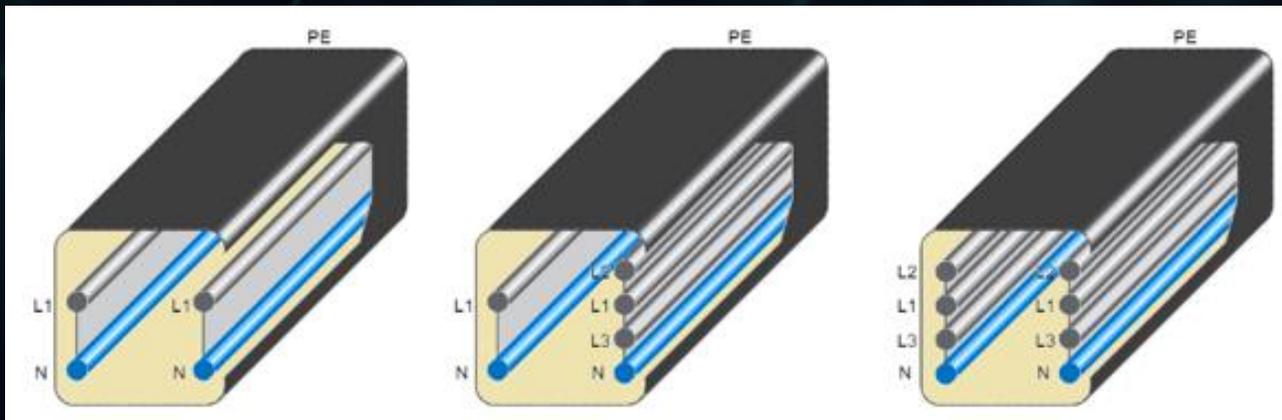
KBA



Single Circuit:

- Single phase
- 3-phase
- Up to 40A
- Casing as PE

KBB



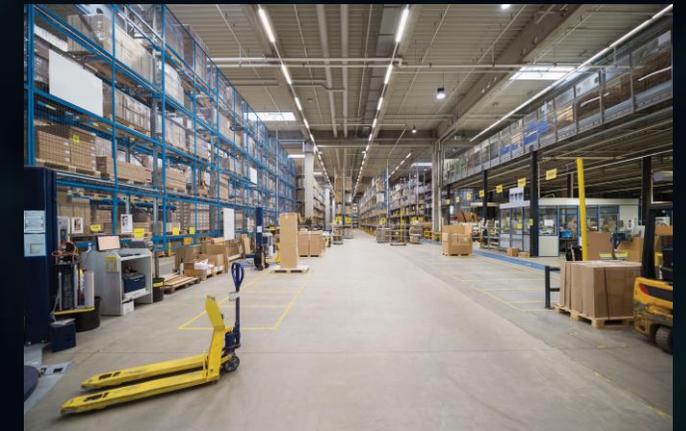
Single or Dual Circuit

- Single phase
- 3-phase
- Mix
- Up to 40A
- Casing as PE

Where would you find KB Busbar?

Large areas that require lighting:

- Supermarkets
- Large Retail buildings
- Warehouses
- Logistics
- Factories
- Indoor carparks
- Sports halls/arena's



Canalis KN Busbar

Low Power Busbar



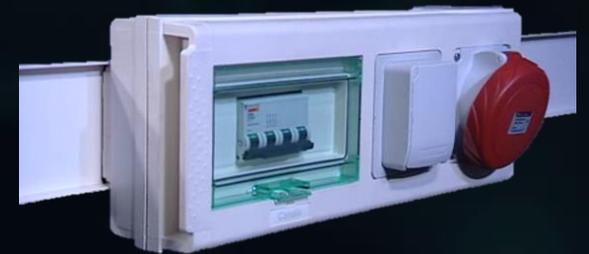
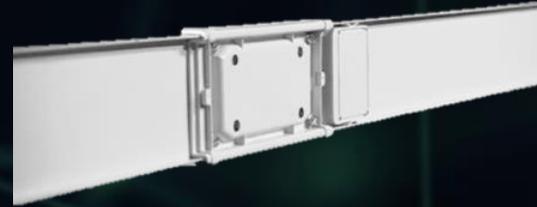
Canalis KN Range

KN/KNT

Prefabricated busbar trunking for
low power systems up to 160A

Technical Characteristics

- ✓ Busbar trunking Rated Current: 40A, 63A, 100A & 160A
- ✓ Length of busbar trunking sections: 2m & 3m
- ✓ Tap-off units rated current: 16A up to 63A
- ✓ Flexible Lengths: Elbows, Straight Lengths, and Dual Axis
- ✓ Rated insulating voltage: 500V
- ✓ Protection Index: IP55
- ✓ Surface Treatment: RAL 9001
- ✓ Feeds: End or Central Feed Units
- ✓ Communication: Transmission Bus Option

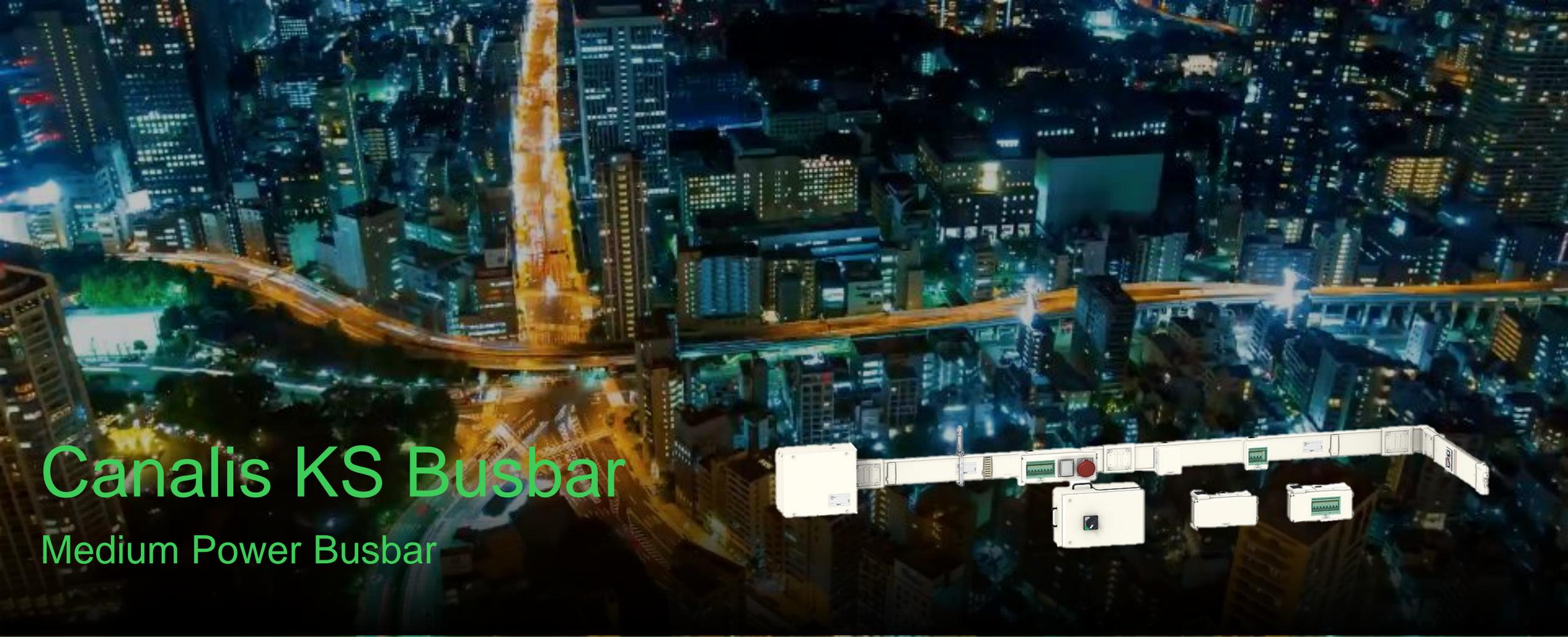


Where would you find KN Busbar?

Low Power in medium to large buildings:

- Manufacturing
- Garages
- Logistics
- Offices
- Retail





Canalis KS Busbar

Medium Power Busbar



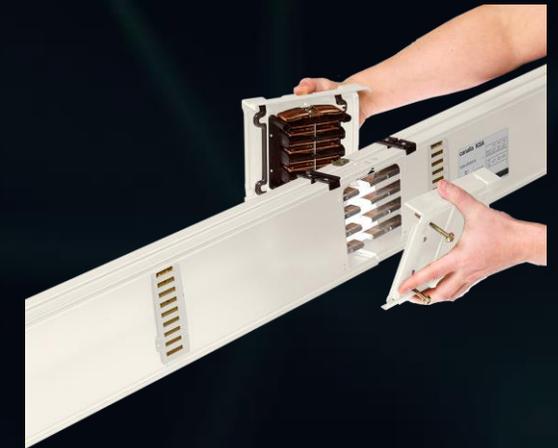
Canalis KS Range

KSA/KSC

Prefabricated busbar trunking for
medium power systems up to 1000A

Technical Characteristics

- ✓ Busbar trunking Rated Current:
 - Aluminium: 100A - 1000A
 - Copper: 160A - 800A
- ✓ Length of busbar trunking sections:
 - KSA: 1.5m, 2m, 3m & 5m
 - KSC: 3m
- ✓ Tap-off units rated current: 16A & 400A
- ✓ Rated insulating voltage: 690V
- ✓ Protection Index: IP55
- ✓ Surface Treatment: Lacquered RAL 9001
- ✓ Direction Changes: Flat and Edgewise elbows and Edgewise T's



Where would you find KS Busbar?

Large and medium buildings requiring medium power around a single floor:

- Data Centres
- Hospitals
- Large Retail buildings
- Logistics Centres
- Manufacturing Factories
- Indoor carparks for EV Charging
- Sports Arena's



2) ENGINEERED OFFER

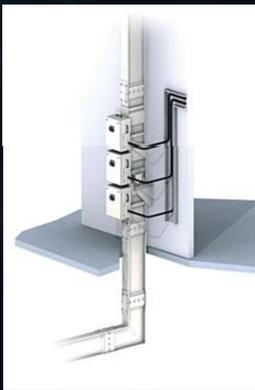
What do we offer?

Engineered Offers

Engineered to order busbar and tap-offs for a complete building solution
Designed and made to measure busbar lengths, bends and more for each individual project
Engineer team designs, measures and advises throughout the process
Offers include through floor fire protection, Specialised TOUs and Harsh Environment products.

Medium Power Busbar

KSR



Aluminum Conductors 100A - 1000A
Copper Conductors 160A - 800A

High Power Busbar

KT



Aluminum Conductors 800A - 5000A
Copper Conductors 1000A - 6300A

High Power Busbar

KR



Aluminum Conductors 800A - 5000A
Copper Conductors 1000A - 6300A

Life Is On

Schneider
Electric

www.se.com