

Retail lighting dimming application

Prismatron™ controllable lighting system from Holophane working on Canalis® lighting busbar trunking as the carrier system and Transparent Building to control.

Canalis lighting busbar trunking system is a 'pre-wired trunking' system manufactured from standard components 25 and 40 amp rated. This enables the electrical contractor to achieve a rapid installation, while maintaining safety and quality of the installed system. With its quick "click" connections this replaces traditional "hard wired" cable installation and associated mechanical support systems (cable tray, conduit, galvanised trunking, etc.)

The standard connectors tap-off units allow connection to the dedicated conductors within the trunking for the PRISMATRON dimming system. L2, N2 the power supply and L3, N3 the 1-10V control dimming signal. The busbar conductors can be 4 pole, 6 pole or 8 pole for different lighting zones or switching arrangements and an additional dedicated "twisted pair" ('T' option) for 1-10V signals if required for the PRISMATRON dimming system.

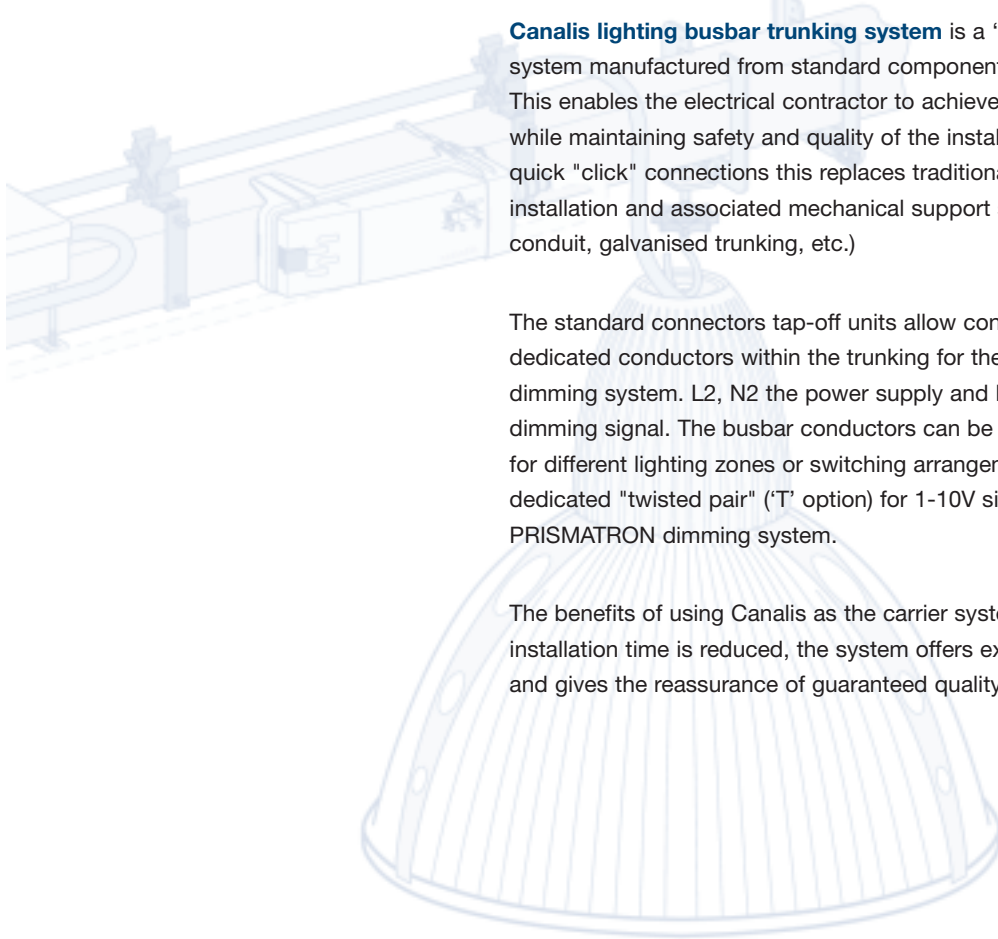
The benefits of using Canalis as the carrier system means that the installation time is reduced, the system offers excellent compatibility and gives the reassurance of guaranteed quality.

Transparent Building is the only building management system available that combines advanced monitoring and control of a buildings electrical distribution network with full monitoring and control of lighting, HVAC, fire alarms, security systems, refrigeration plant and other systems.

For control of the Prismatron system shown overleaf the Transparent Building outstation receives signals from the remote photocells and can either be configured to take average values or worst case values from several areas to produce an output signal between 0-10V to dim the ballasts.

The outstation could also set predetermined light levels at set times such as mid level light levels outside of normal occupancy times.

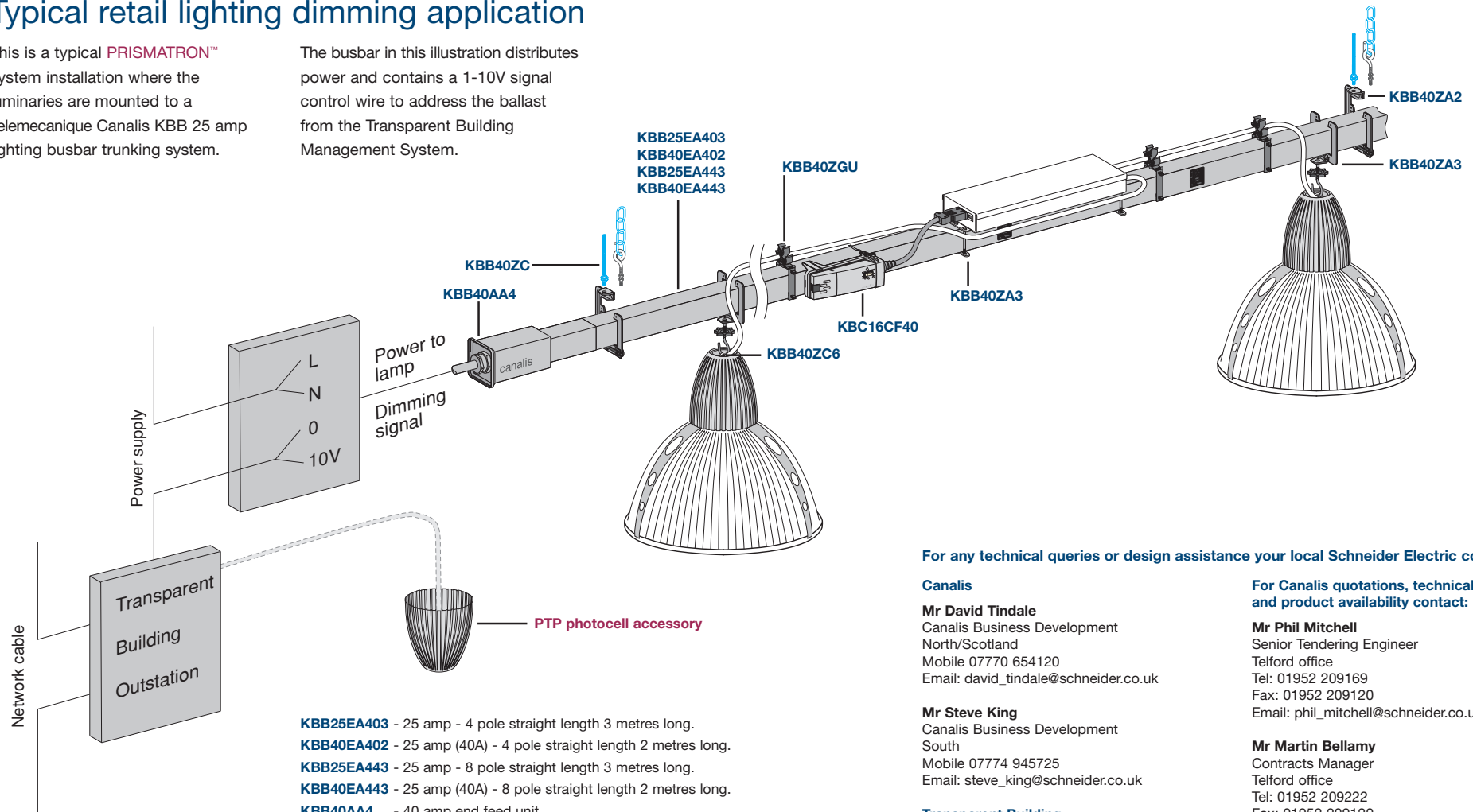
The use of Transparent building as the controller offers reduced energy consumption and the production of residual heat is also reduced.



Typical retail lighting dimming application

This is a typical PRISMATRON™ system installation where the luminaires are mounted to a Telemecanique Canalis KBB 25 amp lighting busbar trunking system.

The busbar in this illustration distributes power and contains a 1-10V signal control wire to address the ballast from the Transparent Building Management System.



- KBB25EA403** - 25 amp - 4 pole straight length 3 metres long.
- KBB40EA402** - 25 amp (40A) - 4 pole straight length 2 metres long.
- KBB25EA443** - 25 amp - 8 pole straight length 3 metres long.
- KBB40EA443** - 25 amp (40A) - 8 pole straight length 2 metres long.
- KBB40AA4** - 40 amp end feed unit.
- KBB40ZA2** - Busbar suspension bracket 'C'.
- KBB40ZC** - Pig tail hook for chain suspension.
- KBB40ZC5** - Open hook for luminaires suspension.
- KBB40ZA3** - Luminaires suspension bracket (or PTNG.2L.400.M6 attachment).
- KBB40ZGU** - Auxiliary cable clip.
- KBC16CF40** - 12 amp, 3 phase & N tap-off connector.

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