Tramway technology is being more and more used in the development of urban mass transportation projects. The regular Tramway technology uses an alternative energy collection based on a pantograph and catenary but it also exists an energy collection which doesn’t need catenary, the wireless technology. This Technology enables a current collection from the roof with a static contact.

There are numerous advantages of these technologies:
- For aesthetic when Tramway is next to classified buildings or monuments or historical city centers. The wireless technology will not disfigure the visual environement.
- For the security of the firefighters, while working next to the catenary grid or for the safety of the people doing the maintenance on roads for public lightning
- to enable extra-large dimensions for road transports.

Mersen innovates and is the first company to propose three different Current Collector technologies wireless (static and dynamic).

The static roof technology is a Current Collector blades which tap the energy from the mounted in stations.

The wireless static technology is a Current Collector operating blades in contact with a source above the tramway to re-fuel the batteries during Tramway dwelling time.

At each stop the shoe powered by an electronic system is moved up to be in contact with the electrical source. During the 20 seconds a high DC current is re-fueling the Tramway batteries to enable it to go to the next station. The blades are then moved down and the

FEATURES & BENEFITS
- Roof collection
- Visual aesthetic, no more catenary
- CCD’s dimensions and characteristics can be customized to your application
- Minimum weight, especially low dynamic mass
- Very low noise level
- Extremely compact
- Cost effective, proven technologies and simple fixing
- Low cost maintenance

APPLICATIONS
- Wireless applications for Tramways

STANDARDS
- IEC 61373
Tramway can reach the next station.

Since 2018 fifteen trains are using this proven technologies.

References
Kaohsiung (TW)

TECHNICAL DATA OVERVIEW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Voltage DC</td>
<td>750 VDC</td>
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<tr>
<td>Amper (A)</td>
<td>1500 A</td>
</tr>
<tr>
<td>Speed/Characteristic</td>
<td>static contact</td>
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<tr>
<td>Working Temperature</td>
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<tr>
<td>Pressure of the Shoe</td>
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<tr>
<td>Humidity</td>
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<td>Weight</td>
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DIMENSIONS

Static contact Current Collector Device
Dwg 1062413
FUNCTIONS

Retraction position indication
To inform the driver of the retracted position of the CCD, Mersen integrate a micro-switch to relay the information of the position. This microswitch is compatible with all traction battery voltage supply.

Contact blades
Mersen can supply the contact blades adapted to your energized rail. Once they are worn, it is very easy to change them for new ones.

Spare part kits
Mersen will supply you with all the Spare parts kits to increase the life time and guarantee a reliable service of your current collector devices.
- braided cables and cables,
- fuses,
- replacement blades,
- hardware,
- and all necessary components

Training and technical support
Mersen team can help you for training your Maintenance team and for commissioning your new installations all around the world.

Tooling
Beside the spare parts, Mersen can supply the necessary tooling to set perfectly your CCD to the technical requirements of your grid and optimize their use.

High, Low and nominal position can be set also the tools include a pressure measurement system to check the pressure of the CCD on the 3rd rail. This tool is mandatory to succeed in the great overhaul to guarantee a reliable service and a longer life time of your CCD fleet.

Tooling reference: 137463
FUNCTIONS

LCC; RAMS; Type tests
All around the world, Mersen technical team can help you for technical support and can offer you customized training sessions for your Maintenance team.

ACCESSORIES

Traction fuses

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<th>Catalog number</th>
<th>Item number</th>
<th>Package</th>
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<td>MICROSWITCH HOLDER SIZE 12X</td>
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