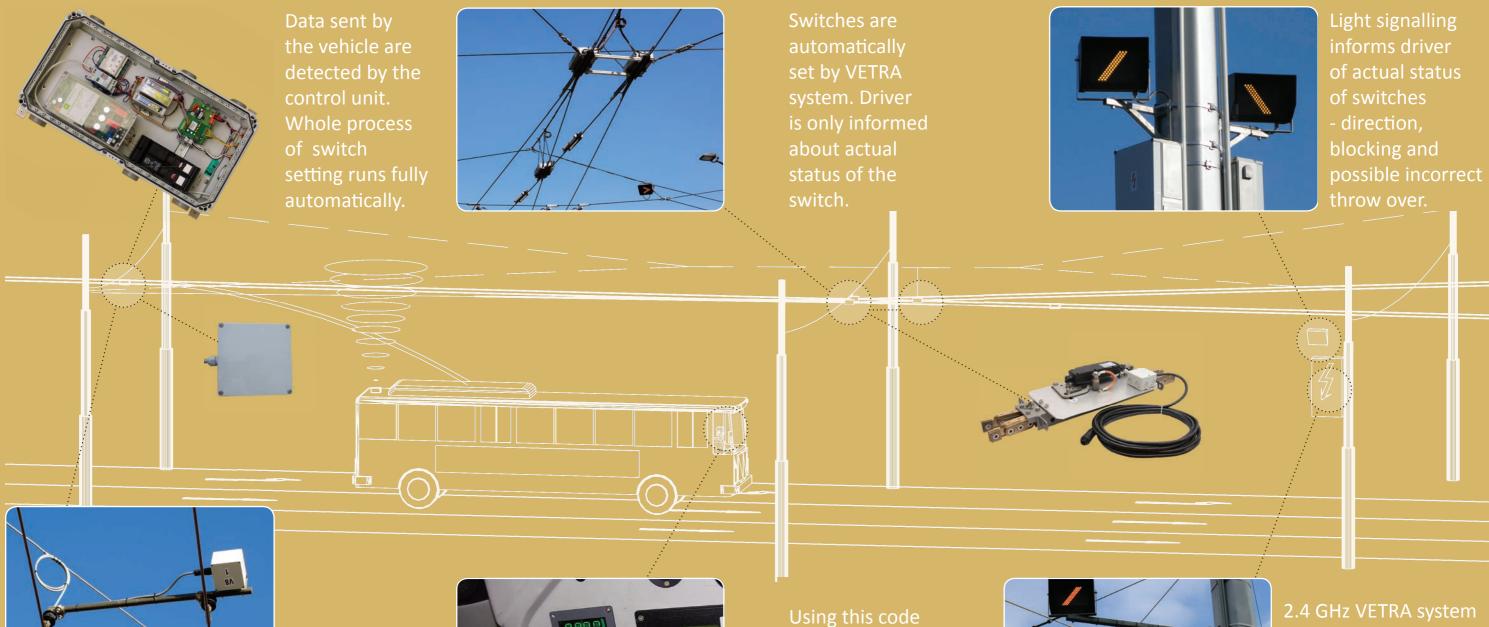
TROLLEY-BUS OVERHEAD CONTACT LINE SYSTEMS







VETRA SYSTEM



Transceiver receives data from the passing vehicles below.

Driver just sets the destination code on the keyboard unit.



Using this code the vehicle pass automatically through all switches until its final destination.



2.4 GHz VETRA system is a reliable data transmition system developed for high vehicle's operation speed.



CANTILEVERS & CROSS-WIRE SUSPENSIONS



We usually supply GRP (glass-fiber reinforced plastic) cantilevers, but our production includes aluminium cantilevers as well.



For longer lengths or higher load of cantilever we offer double cantilever with all needed armatures.



Curve clamps fixed on GRP cantilever

Three-way connection of supporting over-head net made from stainless steel rope.





Cross-wire suspensions are fixed to the poles by the various hinge types.

We use special 3kV loop insulators to reach second level of insulation within the cross-wire suspensions.



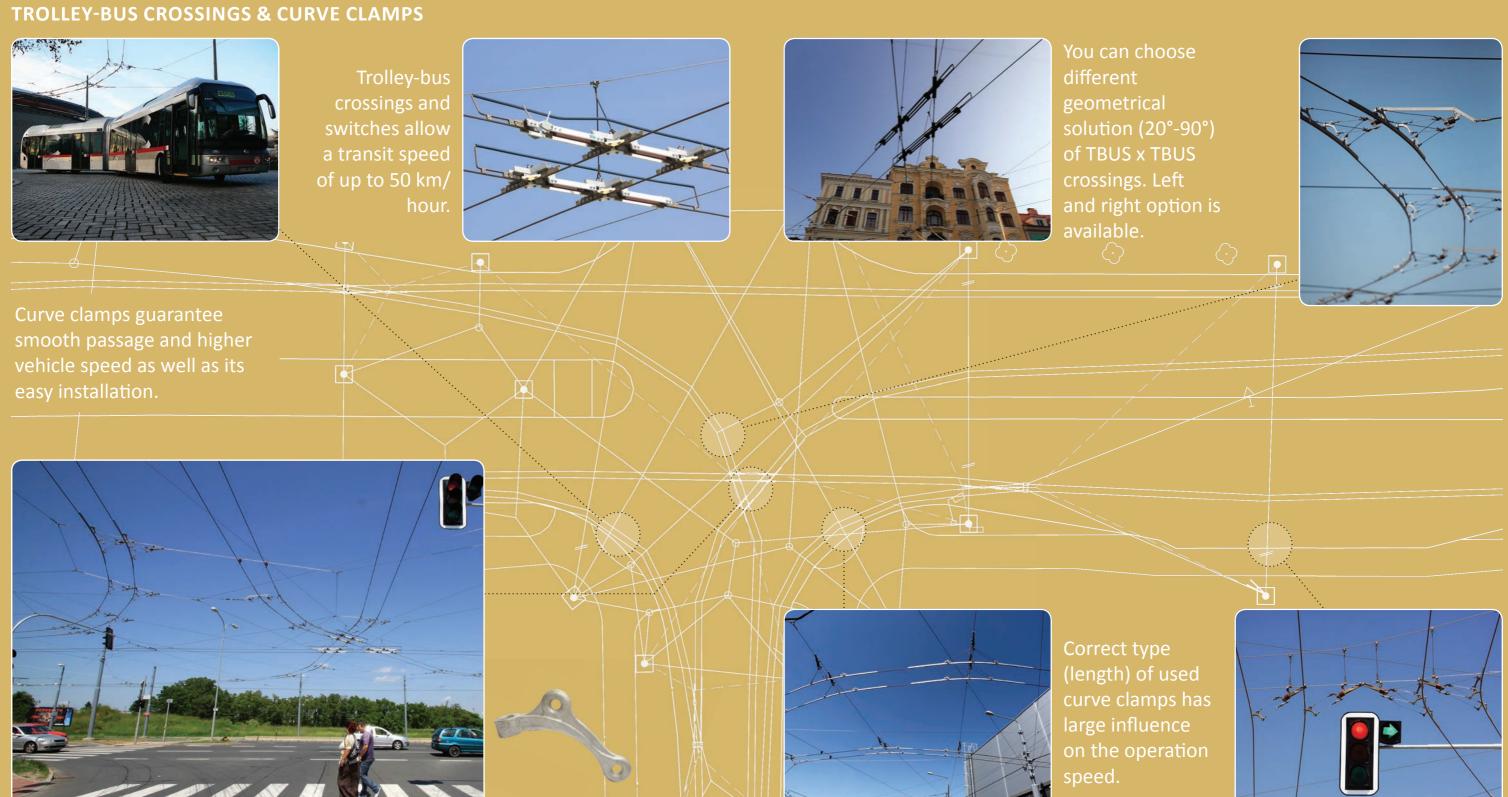


The curve clamps are designed for high-speed operation of vehicles

Our solution of GRP cantilevers is safe for maintenance, longlife and have aesthetic appearance.

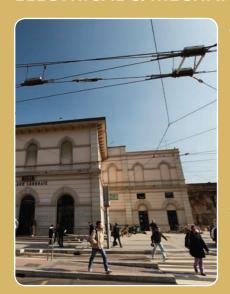






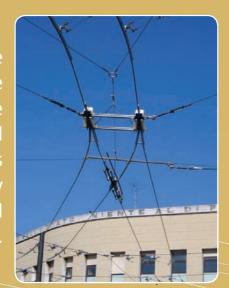


ELECTRICAL & MECHANICAL SWITCHES FOR TROLLEY-BUSES



The latest design of our electrical switches is light and airy and it makes the switches less visible overhead.

The passage over the Elektroline mechanical switches is quick, perfectly smooth and silent.



Our 20 years experience in switches production makes them highly reliable and in top quality.

We offer all types of switches in 10° or 20° narrowangle design and in left/right option.

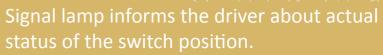


For roundabout solution is suitable use of double switch point controlled by VETRA system with fully automatic operation.











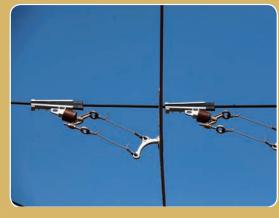
TRAM X TBUS CROSSINGS & KEVLAR ROPES



New type of TBUSxTRAM (15°-65°) crossings without interruption of electrical supply is perfectly silent and ensure vehicle's sustained passage with current.



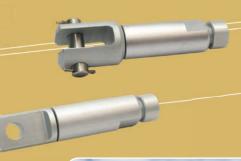
Supporting net made from KEVLAR synthetic ropes decline undesirable noise which is characteristic for vehicle's moving.



Except noiselessness of synthetic rope during operation further important advantage is its insulation.



8010 203 44





Vehicle of any direction can stop wherever within passage of this crossing type and easily start driving again.





We produce wide assortment of KEVLAR clamps and fitting material adjusted for insulated synthetic ropes.



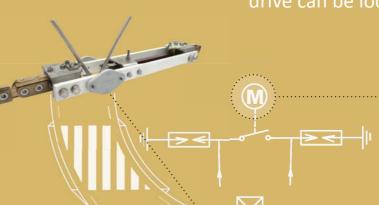


FEEDING & DISCONNECTORS

Special assembly of insulating rods together with disconnector and motor drive allows simultaneous control of both (plus - minus) polarities.









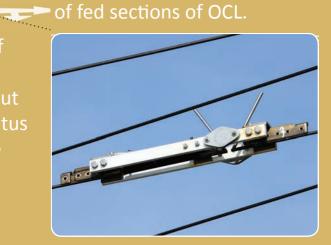


We offer complex solution of depot control including remote control and no-voltage status alerting.





Green color of lamp informs operators about no-voltage status and about the possibility of maintenance close to OCL.

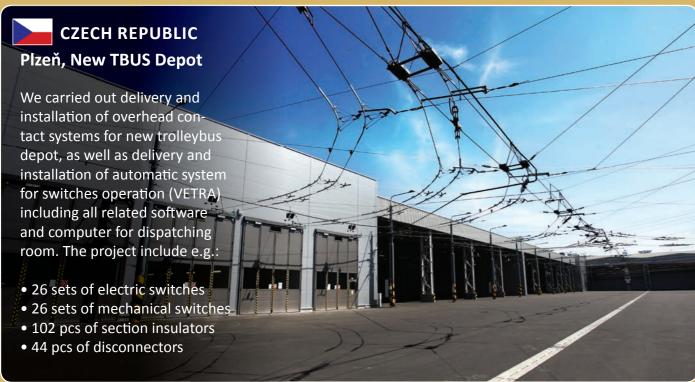


Section insulators for dividing



CHOSEN REFERENCE PROJECTS









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