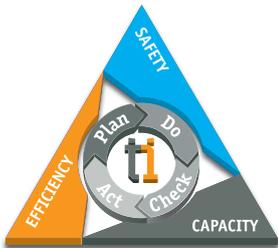# ti DualInventive

Ubiquitous Rail

Dual Inventive strongly believes in the further development and utilisation of the 'railway system' as a sustainable and attractive transportation mode in the future.

Dual Inventive develops and produces innovative technology systems that serve to make the railway infrastructure safer and more efficient, to maximise rail capacity, and to improve the reliability of the railway infrastructure.

Based in the Netherlands, the United Kingdom and Belgium, Dual Inventive collaborates actively in (inter)national partnership projects to develop innovative technology systems.

Please visit www.dualinventive.com for more information.

ZKL 3000 RC   Remote Controlled Line Blockage System

The ZKL 3000 RC is a Network Rail approved, preinstalled, SIL-4 rated, remotely operated Track Circuit Operating Device. It has been designed to be both simple to install and cost effective. The system can be switched remotely in a matter of seconds, removing the need to enter the 4' to place or remove protection once installed. When switched, it simulates a train in the section, causing the track circuit to show 'OCCUPIED' thus placing the protecting signals at danger. The section is immediately blocked, enabling rail workers to perform work on the track safely.

RS 3000 APP

RS 3000

MTinfo 3000

ZKL 3000 RC Remotely Operated Track Circuit Operating Device	**Added value**
• Can remain in track can be remotely (de-)activated by the RS 3000, APP on smartphone, tablet or computer (IOS/Android/Windows) • Battery power supply of 2 months, with optional solar panels to extend this • Developed in accordance with EN50126, EN50128 and EN50129 at SIL-4 • Certificate of acceptance Network Rail PA05/05043 • Unique wireless secure network connection to MTinfo 3000 through our RC technology	**Efficiency:** Implementing Remote Control Technology to create a work site increases efficiency. The production time can be increased by up to 20%. **Availability:** Flexible, efficient track access also possible between trains. **Capacity:** Reducing time spent implementing and removing safety measures reduces time taken to return to operational railway. **Safety:** Pre-installation of equipment allows testing of the safe system of work at a time that does not have production pressures. Subsequent operation of the devices can be done from a place of safety.

MTinfo 3000 In Control

The MTinfo 3000 Cloud synchronizes data from ZKL 3000 RC's using our RC technologies. This allows for real-time monitoring and control of the equipment (via smartphone, tablet or computer) to instantly check that safety measures for the line blocks have been implemented correctly. This data can also be downloaded retrospectively through the MTinfo 3000 Cloud.

MTinfo 3000 and DI APP